CommScope®



NETWORK
WITHOUT
LIMITS

CommScope

SYSTIMAX SOLUTIONS CATALOG

SYSTIMAX®
SOLUTIONS

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SYSTIMAX® Solutions

CommScope, through its SYSTIMAX, Uniprise and Andrew brands, enables customers around the world to create a connected enterprise, supporting current and future business and technology opportunities by providing the right network infrastructure solution for any and every need. Through its portfolio of fiber and copper cabling, intelligent systems for infrastructure management, security and building automation and distributed antenna systems, CommScope delivers the solutions that transform a building to a connected enterprise

Backed by CommScope Labs and a 20 year extended warranty, solutions are delivered through CommScope's global network of industry-leading Business Partners and distributors that ensure consistent, high level service and support worldwide.

The SYSTIMAX Product Line

SYSTIMAX delivers intelligent network infrastructure solutions that can make the difference between business success and failure. Our advanced technology and breadth of solutions enable C-level executives around the world to take advantage of business opportunities that affect the bottom-line by reliably powering mission-critical, high-bandwidth and emerging applications.

Environmental Stewardship

In addition to helping customers, CommScope is focused on environmental stewardship – one of the company's longtime fundamental values. CommScope's solutions can help customers to minimize energy consumption and long-term waste throughout the network as part of a larger concern for the impact of enterprise technology on the environment. Manufacturing products that last more than 20 years, offering integrated solutions that run on one network and providing unparalleled vision and control to more efficiently manage existing resources – are all ways that CommScope's solutions contribute to a positive impact on the environment.

CommScope and the RoHS Directive

RoHS, adopted in July 2006, is an international environmental initiative that restricts the levels of potentially harmful materials, such as lead, cadmium, mercury and hexavalent chromium, used in electrical and electronic equipment.

Since the inception of RoHS, CommScope has worked to ensure that our manufacturing processes are aligned with these voluntary but important requirements. These principals are, in fact, very consistent with the company's policy toward environmental stewardship. We are proud to continue working toward a cleaner future.

ISO 9001 Quality Management System Certification

CommScope is committed to manufacturing excellence in all aspects of its operations. Our policy is to design, manufacture and deliver products and services which conform to the industry and customer specifications in every way. And we do that through our Quality Management System. ISO 9001 is an internationally recognized standard for the management of a quality system. CommScope has been certified to the ISO 9001 standard since 1994. Our conformance to the standard provides our customers with the assurance that our business, product design and production processes are congruent with the principles and philosophy underlying the ISO 9001 Quality Management System family of standards. Specifically, that customer satisfaction and continuous improvement of our processes and products is a part of the core of what we do everyday.

CommScope® SYSTIMAX 360™

Engineering meets elegance.
Speed meets intelligence.
Copper meets fiber.

With SYSTIMAX 360™, CommScope® delivers the most capable infrastructure imaginable with a solution loaded with features that will make it a platform for change in the industry. SYSTIMAX 360 delivers next generation 10G U/UTP with uncompromised performance and high-density formats and improved ergonomics, exceeding industry standards from every angle. SYSTIMAX 360 is engineered with customers in mind; products deliver the design, speed and intelligence you need to take your business further. Sleek, intuitive design offers superb ergonomics and an elegant appearance. Scorching speed takes on any current or emerging application with superior, consistent performance. Intelligence options provide insight deep into your network, offering you the vision, knowledge and control of your network infrastructure.

Through the innovations of SYSTIMAX 360, CommScope empowers you with unprecedented performance, usability and intelligence. We make it possible for enterprise executives and IT management across the globe to seize future opportunities and enhance profitability by powering your network for mission-critical, high bandwidth and emerging applications. All delivered in a green packaging format for CommScope that continues our commitment to environmental stewardship.

Global Support and Delivery

CommScope's solid global footprint and extensive network of BusinessPartners ensure its customers receive a consistent level of services and support worldwide – providing access to CommScope's extensive product portfolio virtually anywhere at anytime. Another critical aspect of performance is installation and implementation. CommScope's BusinessPartners are among the industry's best network infrastructure implementation solution providers that adhere to the same high standards of expertise, performance, quality and reliability for which CommScope's solutions are known.

CommScope, Inc., through the Andrew Wireless Solutions brand, is a global leader in radio frequency subsystem solutions for wireless networks. CommScope is also the premier manufacturer of coaxial cable for broadband cable television networks and one of the leading North American providers of environmentally secure cabinets for DSL and FTTN applications.

For more information please visit www.commscope.com.

Introduction to the SYSTIMAX Solutions Catalog

A premises connectivity system, or distribution system, allows telephones, personal computers (PCs), control systems and other devices such as video surveillance cameras to communicate with each other. It does this by connecting them together through a combination of cables, adapters, connectors and other equipment, such as wireless LAN access points.

A structured connectivity solution is a cohesive way of organizing a connectivity system. The basic rules governing a structured connectivity solution are:

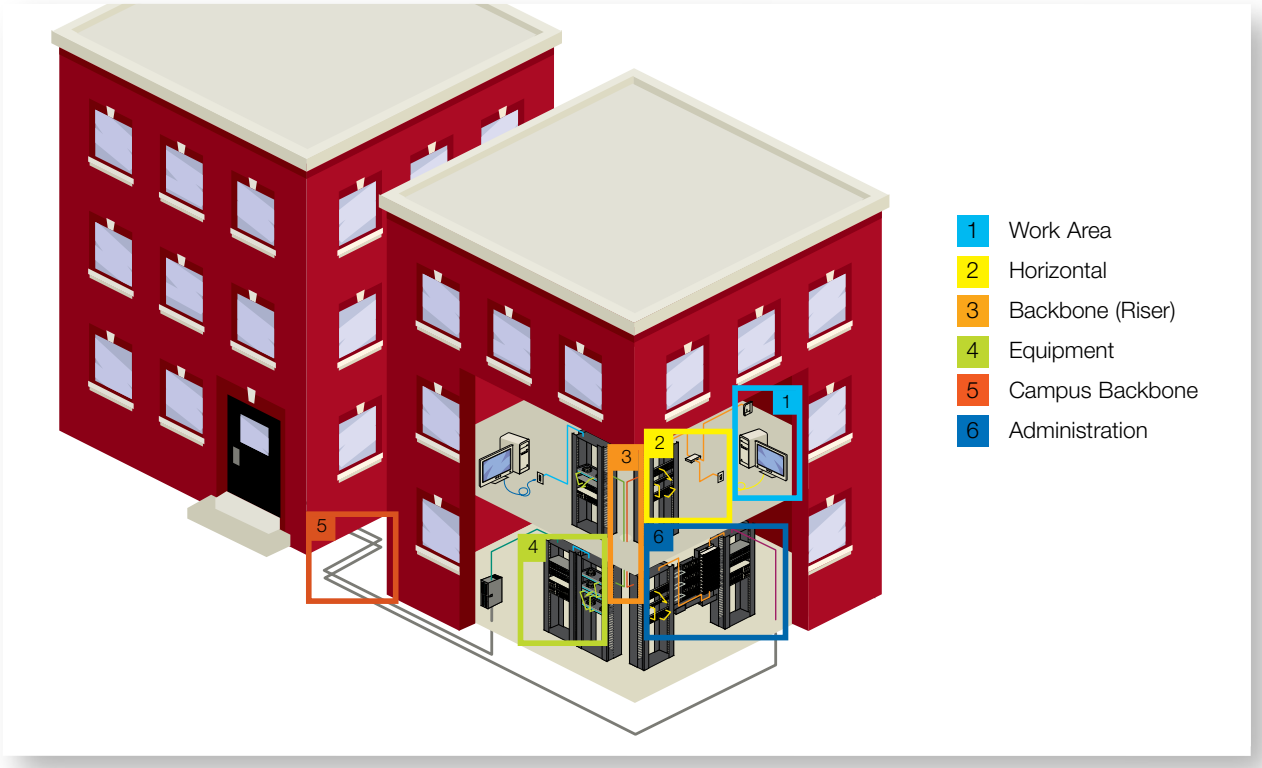
- It uses standardized media and layout for both backbone and horizontal cabling.
- It uses standard connection interfaces for the physical connection of equipment.
- It supports equipment and applications of many vendors – not just a single vendor. The cabling system is independent of the vendor's equipment, and thus, is more flexible. This is known as "Open Architecture."
- It has a consistent and uniform design. It follows a system plan and basic design principles.
- It is designed and installed as a total system. Cabling is not just installed on an as-needed basis.

SYSTIMAX Subsystems

The complete structured connectivity solution can be divided into six discrete subsystems. Each subsystem provides modularity and flexibility; changes and rearrangements usually take place in just two of the subsystems. Configurations for different types of connectivity, for new applications or for new standards may also involve just a few subsystems.

The following six subsystems, when linked together, provide a complete, integrated connectivity system:

- Work Area Subsystem
- Horizontal Subsystem
- Backbone (Riser) Subsystem
- Equipment Subsystem
- Campus Backbone Subsystem
- Administration Subsystem



Work Area Subsystem

The connection between the Information Outlet (IO) and the station equipment (such as PCs, telephones, printers and video monitors) in the work area is the Work Area Subsystem. It consists of cords, adapters and other transmission electronics, such as wireless LAN access points, that permit the station equipment to connect to the horizontal media via the IO.

In SYSTIMAX Intelligent Building Infrastructure Solutions (IBIS), this subsystem is called the Coverage Area Subsystem, and equipment typically includes smoke-, fire- and temperature-sensing devices, video surveillance cameras, and access control devices (such as ID card readers).

Horizontal Subsystem

The Horizontal Subsystem covers the distance from the Work Area to the Telecom Closet (TC). It includes the IO and the transmission media used to extend the outlet to the TC. Each floor of a building is served by its own Horizontal Subsystem.

SYSTIMAX supports the use of twisted pair copper cable and/or multimode optical fiber and 8.3 micron single-mode optical fiber in the Horizontal Subsystem. The horizontal wiring is terminated on an IO in the Work Area and on cross-connect or interconnect hardware in the TC. The horizontal wiring shall be a star topology with each Work Area IO connected to a TC.

When twisted pair copper is used, SYSTIMAX requires that individual 4-pair cables be run and terminated at each IO placed in the Work Area. The maximum length of the horizontal cable run is 295 feet (90 meters).

Backbone (Riser) Subsystem

The Backbone (Riser) Subsystem is the portion of the SYSTIMAX Solution that provides the main (or feeder) cable routes in a building. It usually supplies the multiple circuit facilities between two locations, especially where common system equipment is located at a central point. The Backbone (Riser) Subsystem consists of larger pair count copper cables and optical fiber cabling along with the associated hardware used to bring this cable to other locations. For communications within a building, the Backbone (Riser) Subsystem connects TCs to equipment areas. These areas may be a single main equipment room or multiple equipment locations within the building.

Equipment Subsystem

The Equipment Subsystem consists of shared, common communications equipment and the transmission media required to terminate this equipment on connecting hardware.

The Equipment Subsystem is made up of the cable, connectors and associated support hardware in an equipment room. These are used to extend the common equipment circuits to the main cross-connect wall field for connection to the SYSTIMAX network infrastructure solution.

Campus Backbone Subsystem

The Campus Backbone Subsystem extends the cabling in one building to communication devices and equipment in other buildings on the premises. It is the portion of the distribution system that includes the transmission media and support hardware required to provide an inter-building communication facility. It consists of copper cable, optical fiber cable and electrical protection devices that are used to prevent surges on the cable from entering buildings.

Fiber optic cable is often used as the Campus Backbone medium because it is immune to Electromagnetic Interference and Radio Frequency Interference (EMI and RFI) and can extend the distance over which signals can travel between buildings. Typically, the Campus Backbone Subsystem connects buildings in the equipment rooms.

Administration Subsystem

The Administration Subsystem consists of the cross-connects and interconnects that are made to join two subsystems together or to assign common equipment circuits to subsystems that exist in the TC and equipment areas. Cross-connects and interconnects allow easy administration of common equipment circuits for routing and rerouting to various parts of a building or a campus.

Cross-connects are made with hook-up wire or patch cords. A hook-up wire is a short length of single wire, whereas a patch cord contains several wires and has connectors at both ends. Patch cords provide an easy way to rearrange circuits without the need for the special tools required to install jumper wires. Interconnects accomplish the same purpose as cross-connects, but use plug ended wires, jacks and adapters instead of jumper wires or patch cords.

It is recommended that the Administration System use the color coding for circuit labels and the circuit identification parameters outlined in TIA/EIA 606.

This catalog contains all the components to fulfill the requirements of each of the subsystems.



LazrSPEED®/OptiSPEED®/TeraSPEED®

1. Outdoor and indoor/outdoor cables
2. Fiber optic LIUs/489 FIU
3. Indoor and indoor/outdoor cables
4. Equipment frame and cable management 360 solution
5. InstaPATCH 360 connectivity solutions
6. Plenum, Riser and LSZH indoor cables
7. G2 360 fiber connectivity solution
8. Faceplates and multimedia outlet
9. Patch/work area cord

GigaSPEED® X10D/GigaSPEED® XL/PowerSUM

1. Cabinets
2. Frame and cable management
3. VisiPatch System
4. 110 System
5. Intelligent Infrastructure Solutions
6. 1100/UMP/PATCHMAX patch panels
7. Zone boxes
8. Outlets and faceplates
9. Patch/work area cord and media adapters

Certification of Quality and Performance

Proof of Performance Comes with Every Reel

Certified Test Reports

Quality is just a word until it is proven. This is why CommScope backs its claims for the performance of it's twisted pair and fiber optic cables by testing each master reel.

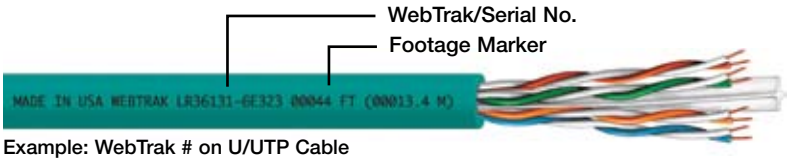


WebTrak is a service that gives you online access to performance testing for our copper and fiber optic cable products. Should there be a performance issue in the field, WebTrak offers the peace of mind you need to ensure the product meets or exceeds performance requirements, allowing you to focus on other causes.

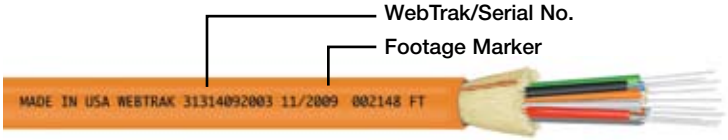
WebTrak test reports are available for all SYSTIMAX Category 6A, 6 and 5e Cables. (Not available on outdoor cables or multi-leg and pair counts higher than 4.) These cables undergo frequency sweep tests for insertion loss, crosstalk and return loss. These values are recorded and logged to our WebTrak system. Each report shows the TIA spec, CommScope spec, average and worst case data for the NEXT, PSNEXT, Return Loss, Insertion Loss (attenuation) and ACR.

Test reports are available for all CommScope Premises, Indoor/Outdoor, and Outside Plant Fiber Optic Cables. WebTrak reports for Fiber Optic Cables provide dated, detailed results on attenuation for each fiber, conducted at two wavelengths as well as cable construction information, sales order number and part number. To access WebTrak reports for your fiber optic cable use the 11-digit serial number and the length marker located on the cable jacket.

This report is your assurance that the cable you've paid for will perform as promised.
WebTrak: Your access to online data for the cable you install.
www.commscopewebtrak.com



Example: WebTrak # on U/UTP Cable



Example: WebTrak # on Fiber Optic Cable

1,000' - 0' Footage Markers
To reduce scrap and simplify traceability and termination, CommScope prints 1000 to 0 footage markings on the outer jacket of all twisted pair and fiber optic cables. This is just another feature that CommScope offers to simplify the installation process. (Not available on outdoor cables or multi-leg and pair counts higher than 4.)

ISO 9001
ISO certification is another proof of CommScope's commitment to manufacturing excellence in all aspects of our operations. Our promise is to design, manufacture and deliver products and services which conform to specifications and satisfy your requirements and expectations in every way.

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Copper Solutions Reference

Copper Conductor Sizes

American Wire Gauge (AWG)	Diameter	DCR	Diameter	DCR
19	0.0359 in	8.05 Ohms/1,000 ft	0.912 mm	26.4 Ohms/km
22	0.0253 in	16.2 Ohms/1,000 ft	0.643 mm	53.2 Ohms/km
23	0.0226 in	20.3 Ohms/1,000 ft	0.574 mm	66.6 Ohms/km
24	0.0201 in	25.7 Ohms/1,000 ft	0.511 mm	84.2 Ohms/km
26	0.0159 in	41.0 Ohms/1,000 ft	0.404 mm	134.5 Ohms/km

Pair Colors

The 4-pair U/UTP cable, pair color combinations are as follows:

Pair Number	1010 Cable Pair Colors		2010 Cable Pair Colors		61, 71, 81, 91 Series Cable Pair Colors	
	(T)ip	(R)ing	(T)ip	(R)ing	(T)ip	(R)ing
1	W-BL	BL-W	W-BL	BL	W	BL
2	W-O	O-W	W-O	O	W	O
3	W-G	G-W	W-G	G	W	G
4	W-BR	BR-W	W-BR	BR	W	BR

The 25-pair U/UTP cable, pair color combinations are as follows:

Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors	Pair Number	Colors
1	BL/W	6	BL/R	11	BL/BK	16	BL/Y	21	BL/V
2	O/W	7	O/R	12	O/BK	17	O/Y	22	O/V
3	G/W	8	G/R	13	G/BK	18	G/Y	23	G/V
4	BR/W	9	BR/R	14	BR/BK	19	BR/Y	24	BR/V
5	S/W	10	S/R	15	S/BK	20	S/Y	25	S/V

Color Codes	
1 Black	- BK
2 Light Blue	- LB
3 Dark Gray	- DG
4 Spring Green	- GR
6 Orange	- OR
7 Red	- RD
8 White	- WH
9 Yellow	- YL
B Lilac	- LL
C Slate	- SL
Z Blue	- BL

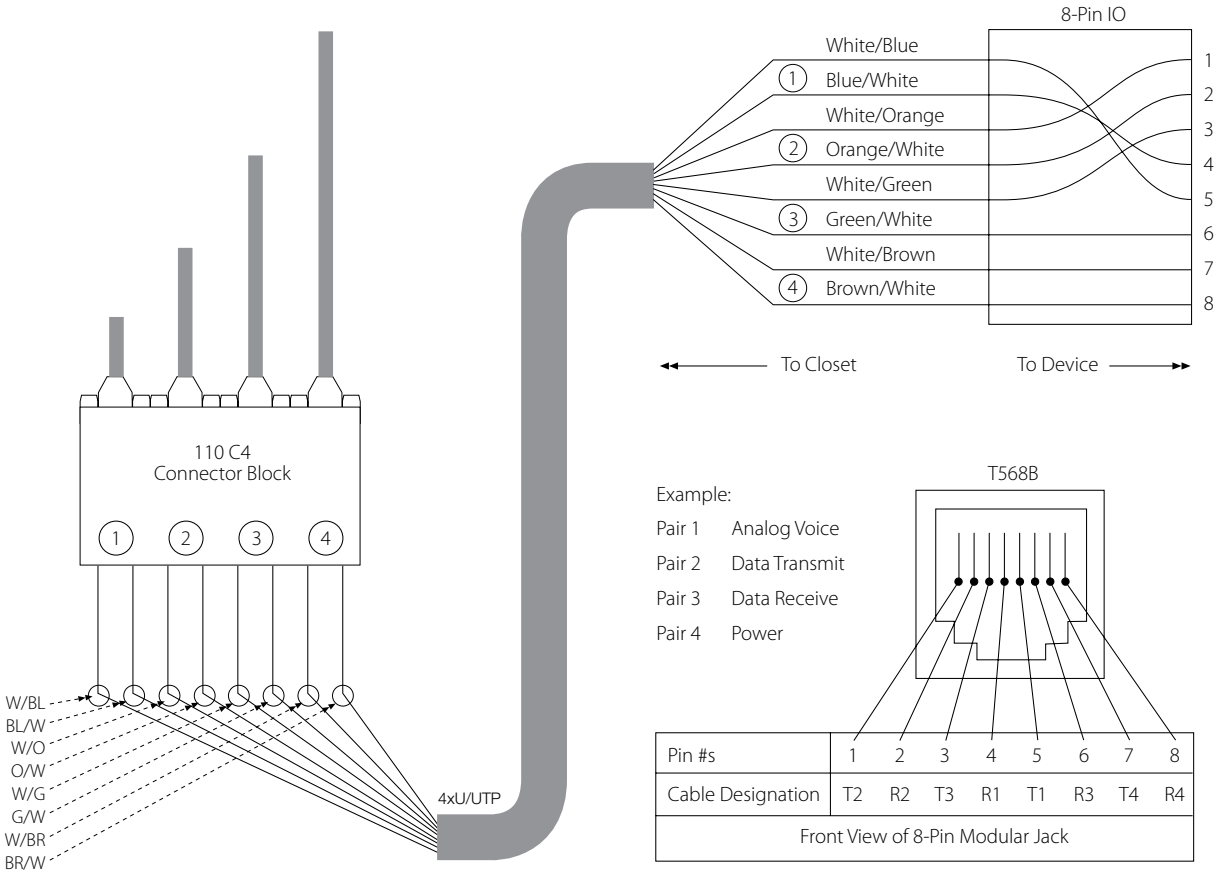


Twisted Pair Cord and Cable Colors
DG - available for cordage only

Information Outlet

ISO (International Standards Organization) Pin-Pair Assignment

To permit circuit administration at the cross-connects, signals for different services may appear on specified wire pairs. The 8-pin IO is wired internally to make this happen. The 8-pin jack connects particular pins on the station side (the work area wiring) to particular twisted-wire pairs of the building distribution cable (the horizontal wiring).



Example:

Pair 1	Analog Voice
Pair 2	Data Transmit
Pair 3	Data Receive
Pair 4	Power

T568B

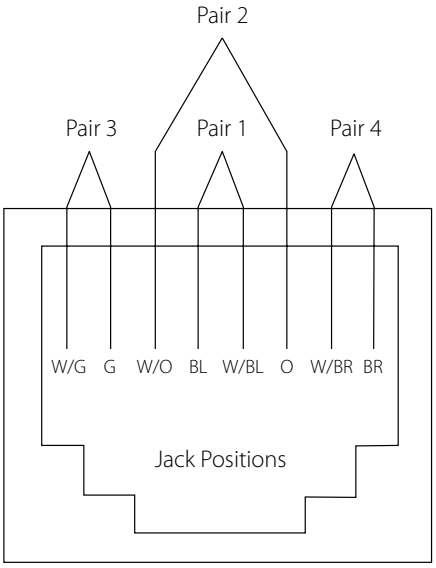
Pin #s	1	2	3	4	5	6	7	8
Cable Designation	T2	R2	T3	R1	T1	R3	T4	R4

Front View of 8-Pin Modular Jack

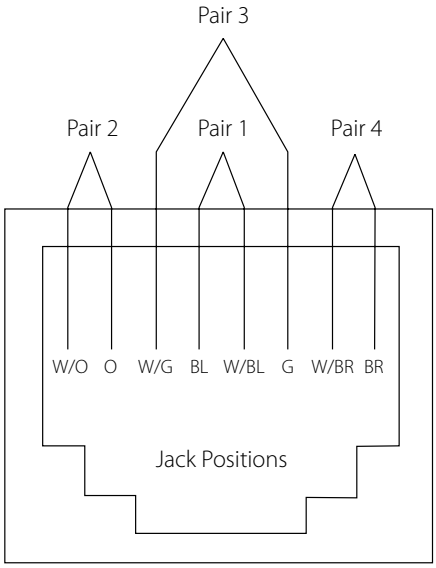
T568 Outlet Specifications

In the ANSI/TIA 568B standard, there are two configurations for termination of the 4-pair cable. They are designated T568A and T568B. The T568A wiring has pair 2 (orange) terminated on pins 3 & 6 and pair 3 (green) terminated on pins 1 & 2. The T568B wiring just reverses the termination of the orange and green pairs. Although T568A and T568B wiring is supported for system registration, SYSTIMAX recommends use of the T568B wiring.

T568A PIN-PAIR ASSIGNMENTS



T568B PIN-PAIR ASSIGNMENTS



The SYSTIMAX M-Series Modules are available with T568A and T568B universal color designations.

Copper Cord Assembly Product Identifier

The Copper Cord Assembly Identifier is an excellent tool for customers to identify each module of a cord/cable assembly.

CPC a b c d - e f g hhh

CPC – Copper Patch Cord

a – Termination One

1	MGS500 Jack
2	MGS400 Jack
3	GS8E (RJ45)
5	VisiPatch®
6	D8PS (RJ45)
7	GS10E (RJ45)
8	110GS
9	Keyed GS8E (RJ45)
C	GS8E-IP-C (RJ45)
D	GS8E-IP-D (RJ45)
F	VisiPatch® 360
G	G10FP (RJ45)
L	GSXP RJ45
N	GS8E-SM (RJ45)
P	Keyed 360GS10E-SM (RJ45)
Q	MFP520 (RJ45)
R	360GS10E-SM (RJ45)
S	360GS10E (RJ45)
U	MGS600 Jack
V	GSXP-SM (RJ45)

b – Termination Two

1	MGS500 Jack
2	MGS400 Jack
3	GS8E (RJ45)
4	Unterminated
5	VisiPatch®
6	D8PS (RJ45)
7	GS10E (RJ45)
8	110GS
9	Keyed GS8E (RJ45)
C	GS8E-IP-C (RJ45)
D	GS8E-IP-D (RJ45)
F	VisiPatch® 360
G	G10FP (RJ45)
L	GSXP RJ45
N	GS8E-SM (RJ45)
P	Keyed 360GS10E-SM (RJ45)
Q	MFP520 (RJ45)
R	360GS10E-SM (RJ45)
S	360GS10E (RJ45)
U	MGS600 Jack
V	GSXP-SM (RJ45)

c – Cordage Type

1	1074E 4/24 Stranded Cordage
2	3071E 4/23 Solid Cable
3	1095A 4/24 Solid Cordage
4	1074D 4/24 Stranded Cordage
5	1074C 2/24 Stranded Cordage
6	1074C 1/24 Stranded Cordage
7	2071E 4/23 Solid Cable
8	1071E 4/23 Solid Cable
9	3074E 4/24 Stranded Cordage
D	3095A 4/24 Solid Cordage
E	3075A 4/24 Solid Cordage
F	2095A 4/24 Solid Cordage
G	1091A 4/23 Solid Cable
H	2091A 4/23 Solid Cable
I	3091A 4/23 Solid Cable
J	1295A 4/24 Solid Cordage
K	2295A 4/24 Solid Cordage
L	3295A 4/24 Solid Cordage
M	1091B 4/23 Solid Cable
N	1061L 4/24 Solid Cable
O	2091B 4/23 Solid Cable
P	1089A 4/24 Solid Cordage
Q	2089A 4/24 Solid Cordage
R	3089A 4/24 Solid Cordage
S	1088A 4/23 Solid Cable
T	2088A 4/23 Solid Cable
U	3088A 4/23 Solid Cable
V	1291A 4/23 Solid Cable
W	3091B 4/23 Solid Cable
X	1095B 4/24 Solid Cordage
Y	2095B 4/24 Solid Cordage
Z	3095B 4/24 Solid Cordage

d – Wiring Scheme

1	T568A
2	T568B/SYSTIMAX Standard
3	10/100 BASE-T Crossover
5	1000 BASE-T Crossover
6	Rollover
8	120P4
D	VP360 Crossover
T	T1 Crossover

e – Modular Jack Color

0	Not Applicable
1	Black (BK)
2	Blue (BL)
3	Gray (GY)
4	Green (GR)
5	Ivory (IV)
6	Orange (OR)
7	Red (RD)
8	White (WH)
9	Yellow (YL)

f – Cord Color

1	Black (BK)
2	Light Blue (LB)
3	Dark Gray (DG)
4	Spring Green (GN)
6	Orange (OR)
7	Red (RD)
8	White (WH)
9	Yellow (YL)
B	Lilac (LL)
C	Slate (SL)
K	Pink (PK)
L	Purple (PR)
M	Green (GR)
Z	Blue (BL)

g – Unit of Measure

F	Feet
M	Meters

hhh – Length

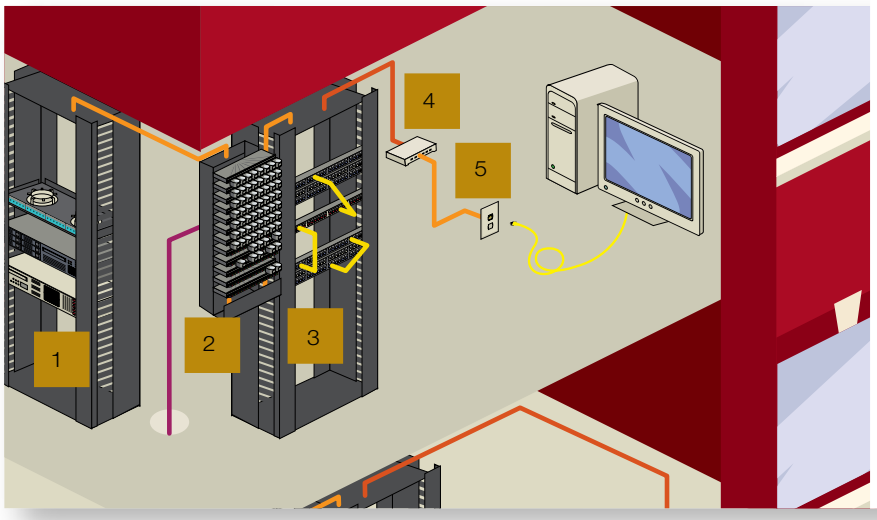
001	1
002	2
003	3
…	
050	50
…	
100	100
…	

Examples:

CPCSSX2-02F007

CPC3312-03F007

GigaSPEED® X10D Solution Exceeding Category 6A



1 Racks
2 VisiPatch® 360 system
3 360 1100GS5 panel
4 Optional zone box with MGS500s
5 MGS600 information outlet and faceplate
1091/2091/3091 U/UTP cable
360GS10E117 equipment cord
360GS10E patch cord

GigaSPEED X10D Solution

Features and Benefits:

- Performance guaranteed to meet or exceed Category 6A/Class E_A Channel Specifications to 500 MHz
- Performance guaranteed up to 4 connections, up to 100 meters, in a 6-around-1 cable bundle configuration
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 10GBASE-T, 1000BASE-T, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

The Category 6A GigaSPEED X10D Solution fully complies with the IEEE 802.3an link segment specifications for 10GBASE-T, in addition to the ANSI/TIA and ISO/IEC Category 6A/Class E_A requirements.

The GigaSPEED X10D Solution will support up to 100 meter channel configuration with at least 4 connections and meet PSANEXT, PSACR-F and Insertion Loss specifications extrapolated to 500 MHz per IEEE 10GBASE-T standard. The Alien Crosstalk performance of the GigaSPEED X10D Solution, which is crucial to successful 10 Gbps transmission, is guaranteed for the complete channel (not just cable) across the entire swept frequency (1-500 MHz) and tested in a stringent 6-around-1 configuration that is representative of worst-case installation conditions.

The GigaSPEED X10D components are fully backward compatible in terms of channel performance and installation techniques to existing SYSTIMAX U/UTP solutions. The innovative cable design, coupled with connectors, follow similar termination procedures as previous generations.

The GigaSPEED X10D Solution is backed by the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when installed and registered by an authorized BusinessPartner.

SYSTIMAX 360 GigaSPEED X10D products include:

- 4-Pair 1091/2091/3091 U/UTP Cables
- SYSTIMAX 360 4-Pair 1291/2291/3291 F/UTP Cables
- 360 1100GS5 Patch Panels
- 360 PATCHMAX® GS5 Patch Panels
- SYSTIMAX Modular Patch Panels
- 360 MGS600 Information Outlets
- MFP520 Equipment Information Outlets
- 360GS10E Patch and Workstation Cords
- VisiPatch 360 System

GigaSPEED® X10D U/UTP Specifications

SYSTIMAX GigaSPEED X10D Category 6A Guaranteed Channel Performance

Guaranteed Performance Specifications for 4-Connection GigaSPEED X10D U/UTP Channels[1]

Electrical Parameter	Guaranteed Channel Margins to Amendment 1 to ISO/IEC 11801:2002 Class E_A (1 – 500 MHz)
Insertion Loss	3%
NEXT	1 dB
PSNEXT	2.5 dB
ACR-F	6 dB
PSACR-F	8 dB
Return Loss, PSANEXT, PSANEXTavg, PSAACR-F, PSAACR-Favg	≥ 0 dB

[1] Insertion Loss margin is calculated based on 12m of 95 series cordage and 88m of 91 series cable plus connections. If the total cord length in a 100m channel has to be greater than 12m, please refer to GigaSPEED X10D Design and Installation Guidelines for the instruction on how to scale cable and cord length properly.

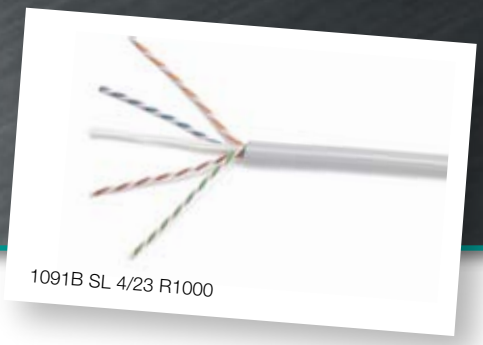
Guaranteed Channel Performance Specifications for 4-Connection GigaSPEED X10D U/UTP Systems

Frequency (MHz)	Insertion Loss (dB)	PS ANEXT (dB)	Avg. PS ANEXT (dB)	PS AACR-F (dB)	Avg. PS AACR-F (dB)	NEXT (dB)	ACR-N (dB)	PSNEXT (dB)	PSACR-N (dB)	ACR-F (dB)	PSACR-F (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	3.9	67.0	69.25	67.0	71.0	71.0	68.8	69.5	67.3	69.3	68.3	22.0	580	40
4.0	4.0	67.0	69.25	65.0	69.0	69.0	65.0	68.0	64.0	57.2	56.2	22.0	562	40
8.0	5.6	67.0	69.25	58.9	62.9	64.2	58.6	63.1	57.5	51.2	50.2	22.0	557	40
10.0	6.3	67.0	69.25	57.0	61.0	62.6	56.3	61.5	55.2	49.3	48.3	22.0	555	40
16.0	7.9	67.0	69.25	52.9	56.9	59.2	51.3	58.1	50.2	45.2	44.2	18.9	553	40
20.0	8.9	67.0	69.25	51.0	55.0	57.6	48.7	56.5	47.6	43.2	42.2	19.0	552	40
25.0	9.9	66.0	68.25	49.0	53.0	56.0	46.1	54.8	44.9	41.3	40.3	19.1	551	40
31.3	11.1	65.1	67.35	47.1	51.1	54.4	43.3	53.2	42.1	39.3	38.3	19.2	550	40
62.5	15.9	62.0	64.25	41.1	45.1	49.4	33.5	48.1	32.2	33.3	32.3	17.0	549	40
100.0	20.3	60.0	62.25	37.0	41.0	45.9	25.6	44.6	24.3	29.3	28.3	15.0	548	40
200.0	29.2	55.5	57.75	31.0	35.0	40.8	11.6	39.4	10.2	23.2	22.2	12.0	547	40
250.0	32.9	54.0	56.25	29.0	33.0	39.1	6.2	37.7	4.8	21.3	20.3	11.0	546	40
300.0	36.2	52.8	55.05	27.5	31.5	32.7		31.3		20.0	19.0	7.2	546	40
400.0	42.3	51.0	53.25	25.0	29.0	30.6		29.1		17.5	16.5	6.0	546	40
500.0	47.8	49.5	51.75	23.0	27.0	28.9		27.3		15.5	14.5	6.0	546	40

Guaranteed Channel Performance Margin for registered SYSTIMAX installations performed by a SYSTIMAX BusinessPartner in accordance with the GigaSPEED X10D Design and Installation guidelines.

Note: The table provides reference values only. All parameters comply with the governing equations given above over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair 91 series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for the length up to 100 meters.

SYSTIMAX 360™ GigaSPEED® X10D 1091 Non-Plenum U/UTP Cable


1091B SL 4/23 R1000

The diameter of the 91 Series cables has been reduced making it the smallest Category 6A solution on the market. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Non-Plenum construction
- ETL Listed - 1091 Riser rated CMR and CMG
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 34.7 lbs/1,000 ft (15.8 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
ETL: CMR, CMG

Product Number	Pair Count	Color	Length	Package	Material ID
1091B BK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	760105742
1091B BK 4/23 W1000	4	Black	1,000 ft (305 m)	We Tote Box	760107086
1091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760105759
1091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760105833
1091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107094
1091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760105775
1091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760107110
1091B LB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	760105767
1091B LB 4/23 W1000	4	Light Blue	1,000 ft (305 m)	We Tote Box	760107102
1091B OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760105783
1091B OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	760107128
1091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760105791
1091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760107136
1091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760105114
1091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760105858
1091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107078
1091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105871
1091B WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760105841
1091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107144
1091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760105825
1091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760107151

SYSTIMAX 360™ GigaSPEED® X10D 2091 Plenum U/UTP Cable


2091B BL 4/23 R1000

The diameter of the 91 Series cables has been reduced making it the smallest Category 6A solution on the market. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Plenum construction
- ETL Listed – 2091 Plenum rated CMP
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

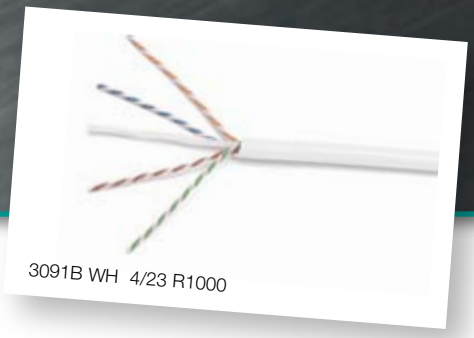
Weight: 36.8 lbs/1,000 ft (16.7 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760105338
2091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760105965
2091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107201
2091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760105809
2091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760107219
2091B OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	760105908
2091B OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We Tote Box	760107227
2091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760105924
2091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760107243
2091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760105932
2091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760105981
2091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107250
2091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105940
2091B WH 4/23 W1000	4	White	3,000 ft (914 m)	Reel	760105973
2091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107268
2091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760105957
2091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760107276

SYSTIMAX 360™ GigaSPEED® X10D 3091 LSZH U/UTP Cable



The diameter of the 91 Series cables has been reduced making it the smallest Category 6A solution on the market. Using SYSTIMAX's innovative Optimized Material Technology (OMT) platform, not only reduces the cable's core, but optimizes transmission performance, giving network managers increased rack space and airflow without succumbing to alien crosstalk.

The redesigned 91 Series cable is packaged in CommScope's We Tote Box®; making it the only Category 6A cable offered in a box.

Features and Benefits:

- Outer diameter 0.285 in. (7.24 mm)
- Packaged in CommScope's We Tote box
- OMT resolves NEXT and ELFEXT issues required for accurate transmission using all four pairs
- 4 pair construction with finned inner jacket surface and isolator member provides the extra margin of performance required for high band-width applications
- Low Smoke Zero Halogen construction
- IEC Certified - 3091 LSZH rated IEC 60332-3
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Weight: 33.9 lbs/1,000 ft (15.4 kg)
Nominal Jacket Thickness: 0.05 in (1.27 mm)
Nominal Outside Diameter: 0.285 in (7.24 mm)
Maximum Pulling Tension: 25 lbs (11.3 kg)
Installation Temperature: 32°F to 140°F (0°C to 60°C)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 65%
Maximum DC Resistance: 8.00 Ohms/100 m
Maximum DC Resistance Unbalance: 4%
Maximum Mutual Capacitance at 1 kHz: 6.0 nF/100 m
Minimum Dielectric Strength: 1500 VAC or 2500 VDC
Voltage Safety Rating: 300 Volts per NEC 800.179
Standards: IEC 60332-3

Product Number	Pair Count	Color	Length	Package	Material ID
3091B BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760106039
3091B BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760106062
3091B BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We Tote Box	760107326
3091B GR 4/23 R1000	4	Green	1,000 ft (305 m)	Reel	760119180
3091B GR 4/23 W1000	4	Green	1,000 ft (305 m)	We Tote Box	760119198
3091B RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	760119206
3091B RD 4/23 W1000	4	Red	1,000 ft (305 m)	We Tote Box	760119214
3091B SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	760106047
3091B SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760106070
3091B SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We Tote Box	760107334
3091B WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760106054
3091B WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	760105122
3091B WH 4/23 W1000	4	White	1,000 ft (305 m)	We Tote Box	760107318
3091B YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	760119222
3091B YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We Tote Box	760119230

SYSTIMAX 360™ PATCHMAX® X10D GigaSPEED® GS5 Panels


360 PATCHMAX GS5 48 Port Patch Panel

The GigaSPEED® X10D GS5 panels offer easy cable routing and bundling utilizing the rear cable manager and are available in a 24 port configuration. Panels also support deployment of InstaPATCH® Cu pre-terminated copper and features the elegant SYSTIMAX 360 design.

GS5 panels accept four (4) PATCHMAX GS Distribution Modules which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. PATCHMAX GS Distribution Modules feature an innovative termination manager and rear housing which provides easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Improved rear cable manager makes cable routing and bundling easier
- Supports deployment of InstaPATCH Cu pre-terminated copper
- Available in 24 port (2U) configuration
- Features elegant SYSTIMAX 360 design
- Innovative 2-way mounting and terminating improving installation for limited rear access applications
- Distribution modules can be snapped onto front of panel for easy front access to rear 110 type IDC termination field
- Designed for simplified administration with built-in cord retainer fingers
- Allows all 24 cords to be routed in the same direction
- 1 to 24 port labeling and identification
- Meets 606 labeling standard

Product Number	Detailed Description	Material ID
360-PM-GS5-2U	360 PATCHMAX GS5 24 Port Patch Panel	760111385
360-PM-GS5-DM	360 PATCHMAX GS5 Distribution Module	760111393
360-PM-KIT-2U	360 PATCHMAX Panel Kit - 2U	760108993
360-PM-GS5-2U-48	360 PATCHMAX GS5 48 Port Patch Panel	760117374
360-PM-GS5-DM-12	360 PATCHMAX GS5 Distribution Module	760117390
360-PM-KIT-2U-48	360 PATCHMAX Panel Kit - 2U – 48	760117408

SYSTIMAX 360™ GigaSPEED® X10D 1100GS5 Panels

Product Number	Detailed Description	Material ID
360-1100-GS5-1U	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP 1U Panel Kit, empty	760109017
360-1100-GS5-24	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Patch Panel, 24 port	760108894
360-1100-GS5-2U	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP 2U Panel Kit, empty	760109009
360-1100-GS5-48	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Patch Panel, 48 port	760108902
360-1100-GS5-DM	SYSTIMAX 360 GigaSPEED® X10D 1100GS5 Category 6A U/UTP Distribution Module	760108910

GigaSPEED® X10D 1100GS5 Modular Patch Panel

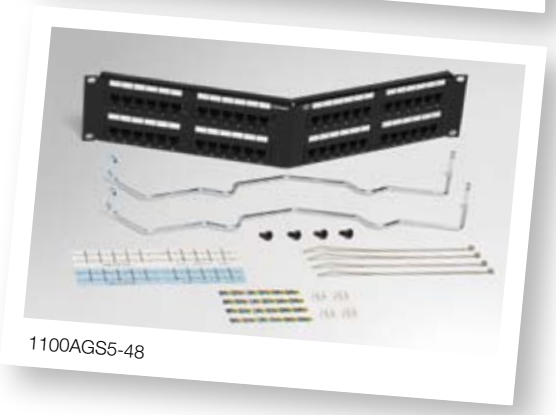

1100GS5-24

The GigaSPEED X10D 1100GS5 panel is a 19-inch rack mountable patch panel, designed with either 4 or 8 six-port GS5 distribution modules (DM) in 1U and 2U configurations. The 1100GS5 panel is fully tuned to provide optimal throughput performance when installed as part of the GigaSPEED X10D channel.


1100GS5-DM

The 1100GS5 panel features termination managers and a redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

After the cable jacket is trimmed, the cable pairs are placed in the termination manager. The termination manager functions as an orientation guide and holder for each cable pair. The termination manager with each cable pair in the correct orientation (either 568B or 568A) is attached to the rear housing between the IDCs. Each cable pair is aligned to the correct IDC slots, and the conductors are placed in the slots. After all 24 cables with termination managers are in place and the conductors are in the correct IDC slot, the conductors are terminated and trimmed with the impact tool and 110 blade. An entire row of 24 cables can be placed sequentially; then, all cable conductors are punched-down sequentially, thus allowing traditional cable termination in high performance panels.


1100AGS5-48

Features and Benefits:

- Certified component of an integrated GigaSPEED X10D 10G solution
- Termination managers and IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Can support network line speeds in excess of 10 Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 6, 5e, 5, and 3 cords and cables; however, optimal performance is achieved when used with GigaSPEED X10D cords and cables
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)
Width: 19 in (48.3 cm)
Depth: 1.60 in (4.06 cm)

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS5-24	1100GS5 24-Port Panel	24 Ports	760051151
1100GS5-48	1100GS5 48-Port Panel	48 Ports	760051169
1100AGS5-24	1100GS5 24-Port Panel (Angled)	24 Ports	760051177
1100AGS5-48	1100GS5 48-Port Panel (Angled)	48 Ports	760051185
1100GS5-DM	1100GS5-DM Distribution Module Kit	6 Ports	760051193
1100PM5-TM	Termination Manager Kit	24 Ports	760051201
1100GS5-24 (empty)	1100GS5 1U Panel Kit (empty)	4 modules	760092775
1100GS5-48 (empty)	1100GS5 2U Panel Kit (empty)	8 modules	760092817
1100AGS5-24 (empty)	1100AGS5 1U Panel Kit (empty)	4 modules	760092825
1100AGS5-48 (empty)	1100AGS5 2U Panel Kit (empty)	8 modules	760092833

GigaSPEED® X10D PATCHMAX® GS5 Modular Patch Panel


PM-GS5-48

The SYSTIMAX GigaSPEED X10D PATCHMAX GS5 panel is a 19-inch rack mountable patch panel, designed to accept 4 or 8 six-port GS3 or GS5 Distribution Modules (DM), which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation. This modular approach offers total flexibility in selecting the required copper and fiber adapters. In addition, it provides for fiber and SYSTIMAX GigaSPEED X10D and XL copper solutions since both fiber and copper modules can fit into the same panel kit.

The PATCHMAX GS5 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Individual six-port distribution modules can be removed, snapped onto the front cord management rings and pivoted forward for easy front access to the rear 110 type IDC termination field making installation easy
- Designed for simplified administration with built-in cord and cable retainer rings, color-coded labels and icons
- Termination manager and redesigned IDC housing allow traditional cable termination to high performance panel
- Available in 24- and 48-port configurations featuring universal A/B labeling
- Can support network line speeds in excess of 10 Gbps
- Qualifies for a 20-year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions:
PM-GS5-24:
19.0 x 3.53 x 8.13 in (48.26 x 8.90 x 20.50 cm) - 2 Rack Unit Universal A/B labeling
PM-GS5-48:
19.0 x 5.29 x 8.13 in (48.26 x 13.34 x 20.50 cm) - 3 Rack Unit Universal A/B labeling
Plastic Materials: High-impact, flame retardant, UL-rated 94V-0 thermoplastic
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Materials: Front Panel: Black powder painted steel
Nominal Solid Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)
Nominal Stranded Conductor Diameter: 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)
Insulation Size: 0.042 in (1.08 mm) (22 to 24 AWG) Maximum DOD

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS5-24	PATCHMAX GS5 24 Port Patch Panel	24 Ports	760060913
PM-GS5-48	PATCHMAX GS5 48 Port Patch Panel	48 Ports	760060921
PM-GS5-2U (empty)	PATCHMAX GS5 2U Blank Panel Kit (empty)	24 Ports	760060939
PM-GS5-3U (empty)	PATCHMAX GS5 3U Blank Panel Kit (empty)	48 Ports	760060947
PM-GS5-DM	PATCHMAX GS5 Distribution Module	6 Ports	760060954
1100PM-TM	Termination Manager Kit	24 Ports	760051201

SYSTIMAX 360™ GigaSPEED® X10D MGS600 Series Outlet


MGS600-262

The MGS600 Information Outlet is the latest result of many years of continuous product development at CommScope Labs. Just like previous MGS information outlets, the MGS600 snaps into standard CommScope M-Series faceplates, surface-mount boxes, and modular panels, but the patented compensation technology on the inside sets this outlet apart. Patented straddled pair cross-over techniques combined with printed wiring board technologies, all tuned to SYSTIMAX 360 10G Cables and Cords bring our customers unsurpassed 10G channel performance with less restrictions than specified by industry standards.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801: 2002 Class E_A and ANSI/TIA-568-C.2 Category 6A when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- Patented crossing of straddling pair contacts enables efficient alien crosstalk reduction in the channel
- Snaps into standard CommScope M-Series faceplates, surface-mount boxes, consolidation point boxes, and SYSTIMAX Modular Panels. Can also be mounted either at 90 degrees (straight) or 45 degrees (angled) in any SYSTIMAX faceplate
- Universal design and label supports both T568 A & B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Optional Plastic Icons (M61A) and Dust Covers (M20A) available in several colors
- Optimal performance is achieved when using the GigaSPEED X10D 360GS10E patch cords; however, the MGS600 is fully backwards compatible
- UL® listed
- Can support network line speeds up to at least 10 gigabits per second
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire (7 strands)
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug

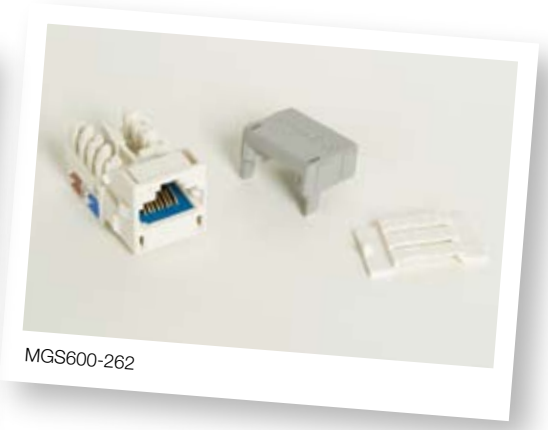
Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Color	Qty/Pkg	Material ID
MGS600-003	Black	1	760092361
MGS600-112	Orange	1	760092379
MGS600-123	Yellow	1	760092387
MGS600-226	Green	1	760092403
MGS600-246	Ivory	1	760092411
MGS600-262	White	1	760092429
MGS600-270	Gray	1	760092437
MGS600-317	Red	1	760092445
MGS600-318	Blue	1	760092452
MGS600-361	Violet	1	760092460
MGS600-148	Almond	1	760092478
MGS600-BULK-003	Black	100	760110957
MGS600-BULK-246	Ivory	100	760110965
MGS600-BULK-262	White	100	760110973
MGS600-BULK-318	Blue	100	760110981



MGS600-262 (Side View)



MGS600-262

GigaSPEED® X10D
MGS500 Series Outlet


MGS500-318

The MGS500 Information Outlet, the latest result of many years continuous product development at CommScope Labs, features patented crosstalk cancellation and compensation techniques. The MGS500 connectivity, consistent at the panels and outlet, exhibit huge improvements in high frequency crosstalk enabled via PWB (Printed Wiring Board) materials and compensation technology. In addition, large improvements in connector Alien Crosstalk mitigation have been achieved through new materials and PWB compensation enhancements. This connector design excellence has been made possible by the CommScope Labs Connector Field Pattern Modeling technology, coupled with the system level MDM tool enabling high frequency cross coupling effects to be eliminated.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Snaps into standard CommScope faceplates, surface-mount boxes, consolidation point boxes, M3000 and M2000 Modular Panels. Can also be mounted either at 90 degrees (straight) or 45 degrees (angled) in any SYSTIMAX faceplate
- Universal design and label supports both T568A and T568B wiring
- Snap-on icons provided in strip of three: Computer Symbol, DATA and GS, and are also sold separately in packages of 25, product number M61A
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel
- Package quantity 100; Bulk Pack includes one handheld terminating device (760034215)

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Color	Qty/Pkg	Material ID
MGS500-003	Black	1	760023556
MGS500-318	Blue	1	760023648
MGS500-112	Orange	1	760023564
MGS500-226	Green	1	760023598
MGS500-123	Yellow	1	760023572
MGS500-361	Violet	1	760023655
MGS500-270	Gray	1	760023622
MGS500-215	Cream	1	760023580
MGS500-262	White	1	760023614
MGS500-246	Ivory	1	760023606
MGS500-317	Red	1	760023630
MGS500-BLK-003	Black	100	760042002
MGS500-BLK-246	Ivory	100	760042010
MGS500-BLK-262	White	100	760042028
MGS Cover with Strain Relief	Clear	25	760056069
MGS500-BLK-318	Blue	100	760042036


MGS500-XXX

SYSTIMAX 360™ GigaSPEED® X10D 360GS10E Patch Cords


SYSTIMAX 360 GigaSPEED® X10D 360GS10E-L


SYSTIMAX 360 GigaSPEED® X10D 360GS10E

The high performance 360GS10E patch cord family has a patented plug design featuring an anti-snag latch for easy and rapid field identification. Via the innovative plug design, the 360GS10E plug exhibits a dramatic reduction in variation of performance. Double-ended and single-ended patch cord constructions are available in plenum, non-plenum and low smoke zero halogen designs.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of registered SYSTIMAX GigaSPEED X10D channel

Physical Specifications:

Contact Material: Phosphor Bronze
Contact Plating: Gold 50 micro-inch (1.27 microns), nickel 100 micro-inch (2.54 microns)
Insertion Life: 750 minimum
Plug Material: Polycarbonate UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 6A

Safety Certification:

ETL/cETL Listed

SYSTIMAX 360™ GigaSPEED X10D 360GS10E Patch Cords

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCSSX2	360GS10E	360GS10E Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSX3	360GS10E-X3	360GS10E 10/100BASE-T 2x3 & 1x4 Crossover Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSX5	360GS10E-X5	360GS10E 1000BASE-T MDI-X Crossover Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCS4X2	360GS10E117	360GS10E Single-ended Solid Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSUX2	360GS10E-MGS600	360GS10E-MGS600 on 1095B Solid Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ2	360GS10E-L	360GS10E Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ3	360GS10E-L-X3	360GS10E 10/100BASE-T 2X3 & 1X4 Crossover Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSSZ5	360GS10E-L-X5	360GS10E 1000BASE-T MDI-X Crossover Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCS4Z2	360GS10E117-L	360GS10E Single-ended Solid LSZH Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
CPCSUZ2	360GS10E-MGS600-L	360GS10E to MGS600 on 3095B Solid LSZH Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: C P C S S X 2 - 0 2 F 0 0 7

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

SYSTIMAX 360™ GigaSPEED X10D 360GS10E Plenum Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length
CPCSSY2	360GS10E-P	360GS10E solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSSY3	360GS10E-P-X3	360GS10E 10/100BASE-T 2x3 & 1x4 Crossover solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSSY5	360GS10E-P-X5	360GS10E 1000BASE-T MDI-X Crossover solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCS4Y2	360GS10E117-P	360GS10E Single-ended solid Plenum Cordage Modular Patch Cord	0	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m
CPCSUY2	360GS10E-MGS600-P	360GS10E-MGS600 on 2095B solid Plenum Cordage Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: C P C S S Y 2 - 0 Z F 0 0 7

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

SYSTIMAX 360™ GigaSPEED® X10D MGS600-MGS600 Pre-terminated Cords

The high performance 91B series cables are terminated on MGS600 information outlets on both ends. Each individual cord has been tested for electrical continuity to ensure performance satisfaction. The MGS600-MGS600 Pre-terminated Cords are available in plenum, non-plenum and low smoke zero halogen designs.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel

SYSTIMAX 360™ GigaSPEED® X10D MGS600-MGS600 Pre-terminated Cords

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCUUM2	MGS600-MGS600	MGS600-MGS600 on 1091B Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,2,6,7,8,9,C,Z	F,M	15-300 ft / 5-100 m
CPCUUO2	MGS600-MGS600-P	MGS600-MGS600 on 2091B Plenum Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	6,7,8,9,C,Z	F,M	15-300 ft / 5-100 m
CPCUUW2	MGS600-MGS600-L	MGS600-MGS600 on 3091B LSZH Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	8,C,Z	F,M	15-300 ft / 5-100 m

Ordering Material ID Example: C P C U U M 2 - 1 Z F 050

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

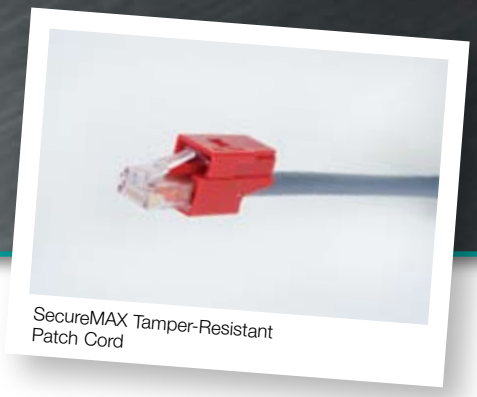
Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

SecureMAX Tamper Resistant Patch Cord


SecureMAX Tamper-Resistant Patch Cord

360GS10E-SM SecureMAX Tamper-Resistant Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
*CPCRRX2	360GS10E-SM	SecureMAX 360GS10E Tamper-resistant Patch Cord (Double side lock)	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m
*CPCRSX2	360GS10E-SM-360GS10E	SecureMAX 360GS10E Tamper-resistant Patch Cord (Single side lock)	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	3-100 ft / 1-30 m

Ordering Material ID Example: CPCRRX2- 03F 007

Not available for sale in Europe, Australia or Japan

Tamper Resistant Patch Cord Accessories


SM-CL and SM-CL-KEY

Product Number	Detailed Description	Material ID
SM-CL	SecureMAX Patch Cord Lock	760099424
SM-CL-KEY	SecureMAX Patch Cord Lock Key with key chain	760099432
SM-CL-KIT	SecureMAX Patch Cord Lock Kit (25 locks, 2 keys)	760102145

*SM-CL is compatible with SYSTIMAX GS8E, GS10E, GSXP and 360GS10E plugs. SM-CL can be mounted on plug in the field without disturbance to live connection. Lock and Key are available in red only.

*Not available for sale in Europe, Australia and Japan. Contact Product Management for availability outside of North America.

SYSTIMAX GigaSPEED X10D F/UTP Channel Performance

The SYSTIMAX GigaSPEED X10D F/UTP cabling system is designed specifically to meet and exceed the ISO/IEC Class E_A cabling specification. A major breakthrough of the SYSTIMAX GigaSPEED X10D F/UTP Solution over other legacy F/UTP solutions is vastly improved performance across the complete frequency spectrum from 1 to 500 MHz.

By utilizing the unique design tools available to CommScope Labs, the technologies implemented in the SYSTIMAX GigaSPEED X10D F/UTP Solution are capable of incorporating the F/UTP technology while maintaining pair balance without degrading the internal channel transmission performance. Superior crosstalk performance, improved Insertion Loss performance and guaranteed channel performance up to 500 MHz are the key enhancements that set the SYSTIMAX GigaSPEED X10D F/UTP Solution apart from other F/UTP solutions on the market today.

SYSTIMAX GigaSPEED X10D F/UTP Performance Specifications

Channel Performance Specifications for the GigaSPEED X10D F/UTP Solutions

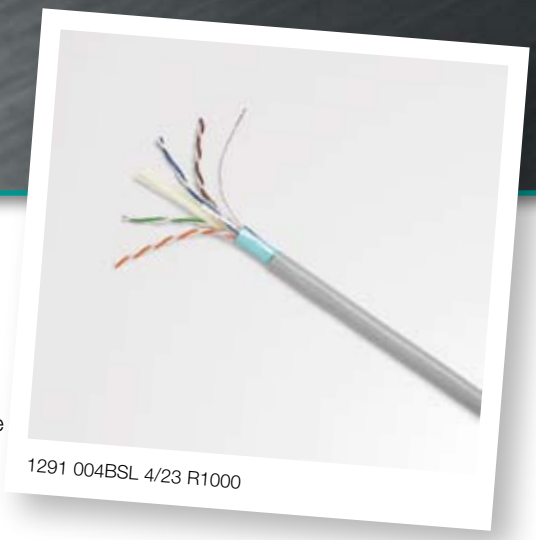
Freq (MHz)	Insertion Loss (dB)	PS ANEXT (dB)	Avg. PS ANEXT (dB)	PS AACR-F (dB)	Avg. PS AACR-F (dB)	NEXT (dB)	ACR (dB)	PS NEXT (dB)	PS ACR (dB)	ACR-F (dB)	PS ACR-F (dB)	Return Loss (dB)
1	2.3	67.0	69.25	67.0	67.0	65.0	61.0	62.0	58.0	63.3	60.3	19.0
4	4.2	67.0	69.25	65.0	63.0	63.0	58.9	60.5	56.4	51.2	48.2	19.0
8	5.8	67.0	69.25	58.9	62.9	58.2	52.5	55.6	49.9	45.2	42.2	19.0
10	6.5	67.0	69.25	57.0	61.0	56.6	50.2	54.0	47.6	43.3	40.3	19.0
16	8.2	67.0	69.25	52.9	56.9	53.2	45.1	50.6	42.5	39.2	36.2	18.0
20	9.2	67.0	69.25	51.0	55.0	51.6	42.5	49.0	39.9	37.2	34.2	17.5
25	10.2	66.0	68.25	49.0	53.0	50.0	39.8	47.3	37.1	35.3	32.3	17.0
31.2	11.5	65.1	67.35	47.1	51.1	48.4	37.0	45.7	34.3	33.4	30.4	16.5
62.5	16.4	62.0	64.25	41.1	45.1	43.4	27.1	40.6	24.3	27.3	24.3	14.0
100	20.9	60.0	62.25	37.0	41.0	39.9	19.1	37.1	16.3	23.3	20.3	12.0
200	30.1	55.5	57.75	31.0	35.0	34.8	4.8	31.9	1.9	17.2	14.2	9.0
250	33.9	54.0	56.25	29.0	33.0	33.1	-0.7	30.2	-3.6	15.3	12.3	8.0
300	37.4	52.8	55.05	27.5	31.5	31.7	-5.6	28.8	-8.5	13.7	10.7	7.2
400	43.7	51.0	53.25	25.0	29.0	26.7	-14.0	23.2	-17.0	11.2	8.2	6.0
500	49.3	49.5	51.75	23.0	27.0	28.7	-21.4	25.8	-24.5	9.3	6.3	6.0

Note: values at specific frequencies for information only.
Performance shall be met on a swept frequency basis as per the above listed formula.

The SYSTIMAX GigaSPEED X10D F/UTP Solution offers guaranteed channel performance to the above specifications for registered SYSTIMAX Network Infrastructure Solutions installations. Please contact your CommScope representative for a GigaSPEED X10D F/UTP Solution Guide and GigaSPEED X10D F/UTP Design and Installation Guidelines.

* IL and PSANEXT requirement of the proposed TIA-568-B.2-AD10 for the category 6A ScTP cabling are different from the ISO Class E_A requirements. PSANEXT is 2dB more stringent while IL is relaxed to Category 6 level across the entire frequency band. Note that IL is a critical parameter generic to all applications while PSANEXT is specific to IEEE 10GBASE-T. The GigaSPEED X10D F/UTP solution incorporates the best of these proposed standards. The GigaSPEED X10D F/UTP channel meets or exceeds all ISO Class E_A requirements as well as TIA Cat-6A PSANEXT requirement.

GigaSPEED® X10D F/UTP Cable


1291 004BSL 4/23 R1000

The SYSTIMAX GigaSPEED X10D 91 Series F/UTP Cable exhibits excellent crosstalk performance, enabled via patented high-technology pair isolator (improves pair separation and also cable flexibility) and an optimized twist and strand scheme, dramatically enhancing high-frequency performance using the CommScope Labs Cable Twist Accuracy Technology.

The GigaSPEED X10D 91 Series F/UTP Cables have been optimized with the GigaSPEED X10D F/UTP connectors and cords to minimize internal channel crosstalk, and also crosstalk between channels in close proximity. The 91 Series Cables incorporate a round smooth shape that speeds the handling and termination process. The cables have been designed to optimize the balance of the F/UTP solution. The 91 Series F/UTP Cables have been specified out to 500 MHz to support high bandwidth applications operating at 10 Gbps.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- 4-pair construction with aluminum foil tape and isolator center member provides extra margin of performance required for high-bandwidth applications
- 1291 Non-Plenum cable is ETL listed as CMR and CMG. This cable is constructed with a single jacket
- 2291 Plenum cable* is ETL listed as CMP. This cable is constructed with a single jacket
- 3291 LSZH cable meets the requirements of IEC 60332-3. This cable is constructed with a single jacket
- ETL Listed - 1291 Riser rated CMR and CMG
- IEC Certified - 3291 LSZH rated IEC 60332-3
- Can support network line speeds up to at least 10 Gbps
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

*call for availability

Physical Specifications:

	1291	2291	3291
Nominal Jacket Outside Diameter:	0.296 in (7.5 mm)	0.290 in (7.4 mm)	0.296 in (7.5 mm)
Nominal Jacket Thickness:	0.020 in (0.51 mm)	0.016 in (0.41 mm)	0.020 in (0.51 mm)
Maximum Pulling Tension:	25 lbs (11.3 kg)	25 lbs (11.3 kg)	25 lbs (11.3 kg)
Nominal Cable Weight:	35 lbs/1,000 ft (18.3 kg)	42 lbs/1,000 ft (17.4 kg)	35 lbs/1,000 ft (18.3 kg)
Installation Temperature:	32ºF to 140ºF (0°C to 60°C)	32ºF to 140ºF (0°C to 60°C)	32ºF to 140ºF (0°C to 60°C)
Operating Temperature:	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)	-4°F to 140°F (-20°C to 60°C)
Gauge:	23 AWG	23 AWG	23 AWG

Electrical Specifications:

	1291	2291	3291
Characteristic	**Limit/100 m**		
NVP:	69%	72%	69%
Conductor Resistance:	8.0 Ohms/100 m	8.0 Ohms/100 m	8.0 Ohms/100 m
Resistance Unbalance:	3%	3%	3%
Mutual Capacitance:	5.6 nF	5.6 nF	5.6 nF
Dielectric Strength:	1500 VAC or 2500 VDC	1500 VAC or 2500 VDC	1500 VAC or 2500 VDC
Voltage Safety Rating:	300 Volts per NEC 800.179	300 Volts per NEC 800.179	300 Volts per NEC 800.179
ETL:	CMR, CMG	CMP	
Standards:			IEC 60332-3-22, IEC 61034, IEC 60754-2

Non-Plenum

Product Number	Detailed Description	Color	Material ID
1291B BL 4/23 R1000	Non-Plenum	Blue	760081364
1291B GR 4/23 R1000	Non-Plenum	Green	760081372
1291B OR 4/23 R1000	Non-Plenum	Orange	760081380
1291B SL 4/23 R1000	Non-Plenum	Slate	760081398
1291B WH 4/23 R1000	Non-Plenum	White	760081406

Plenum

Product Number	Detailed Description	Color	Material ID
2291B BL 4/23 R1000	Plenum Cable	Blue	760122630
2291B SL 4/23 R1000	Plenum Cable	Slate	760122655
2291B WH 4/23 R1000	Plenum Cable	White	760122648

Low Smoke Zero Halogen

Product Number	Detailed Description	Color	Material ID
3291B BL 4/23 R1000	LSZH Cable	Blue	760081315
3291B WH 4/23 R1000	LSZH Cable	White	760081323

GigaSPEED® X10D F/UTP Information Outlet


MFP520

The SYSTIMAX GigaSPEED X10D MFP520 Information Outlet is the latest result of many years of continuous product development at CommScope Labs. The MFP520 features patent-pending crosstalk cancellation and compensation techniques. A unique opaque aqua-colored inner tab identifies the unparalleled compensation technology.

The MFP520 information outlet, used throughout the GigaSPEED X10D F/UTP channel, exhibits extended frequency crosstalk suppression enabled via innovative Printed Wiring Board (PWB) compensation technologies. The MFP520 incorporates a metallized body and capsule, plus an innovative grounding connection to ensure consistent bonding performance.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Snaps into most CommScope faceplates, surface-mount boxes, consolidation point boxes and SYSTIMAX M3200 panels
- Universal design and label supports both T568A and T568B wiring
- IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cables
- Black icons provided in strip of three: VOICE, DATA and BLANK, and are also sold separately in packages of 25, available in several colors, product number M61K
- Optimal performance is achieved when using the GigaSPEED X10D G10FP patch cords
- UL® listed
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D F/UTP Solution
- Qualifies for the SYSTIMAX 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP Channel

Physical Specifications:

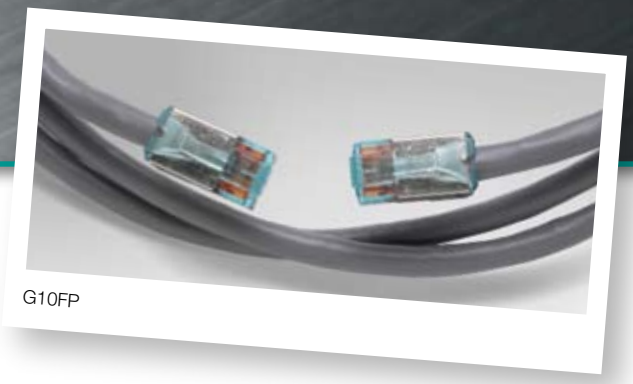
Width: 0.80 in (20 mm)
Length: 1.61 in (41 mm)
Depth: 0.82 in (21 mm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Jack Wires: Copper alloy, 1.27 µm lubricated gold plating over 2.54 µm nickel underplate
Connectors: Copper alloy, 2.54 µm bright solder over 2.54 µm nickel underplate
Insertion Life: >750 insertions of an FCC 8 position telecommunications plug
Min. Contact Force: 100 g using FCC approved modular plug
Min. Plug Retention Force: 133 N
Operating Temperature: 14ºF to 140ºF (-10ºC to 60ºC)

Electrical Specifications:

Min. Insulation Resistance: 500 MΩ
Min. Dielectric Withstand Voltage: 1000 V DC or AC peak (contact to contact @ 60 Hz)
Min. Dielectric Withstand Voltage: 1500 V DC or AC peak
Max. Contact Resistance: 100 mΩ
Max. Contact Resistance Variation: ≤ 20 mΩ
Current Rating @ 20ºC: 1.5 A

Product Number	Detailed Description	Material ID
MFP520	F/UTP Information Outlet	760077032

GigaSPEED® X10D F/UTP Modular Patch Cord


G10FP

SYSTIMAX G10FP F/UTP Modular Patch Cords are for use at both ends of a SYSTIMAX® GigaSPEED® X10D F/UTP channel. Along with cable and patching hardware, CommScope Labs has characterized the performance of these cords in thousands of different channel configurations using the Modal Decomposition Modeling (MDM) tool.

The high performance G10FP modular patch cord family has a patented plug design featuring a distinctive metallized construction, low profile rear housing and anti-snag latch for easy and rapid field identification. The G10FP plug exhibits dramatic reduction in performance variation via an innovative design. Together with high precision manufacturing, this provides the electrical performance needed to deliver the SYSTIMAX GigaSPEED X10D F/UTP Solution.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Can support network line speeds up to at least 10 Gbps
- Certified component of an integrated GigaSPEED X10D F/UTP Solution
- Qualifies for the SYSTIMAX 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

Physical Specifications:

Operating Temparature Range: 14° F to 140° F (-10° C to 60° C)
Contact Stability: 20 mΩ max. change
Insertion Life: 750 insertions
Contacting Plating: 1.27µ Gold over 2.540 µm Nickel
RoHS Compliant: Yes

Electrical Specifications:

TIA: category 6A

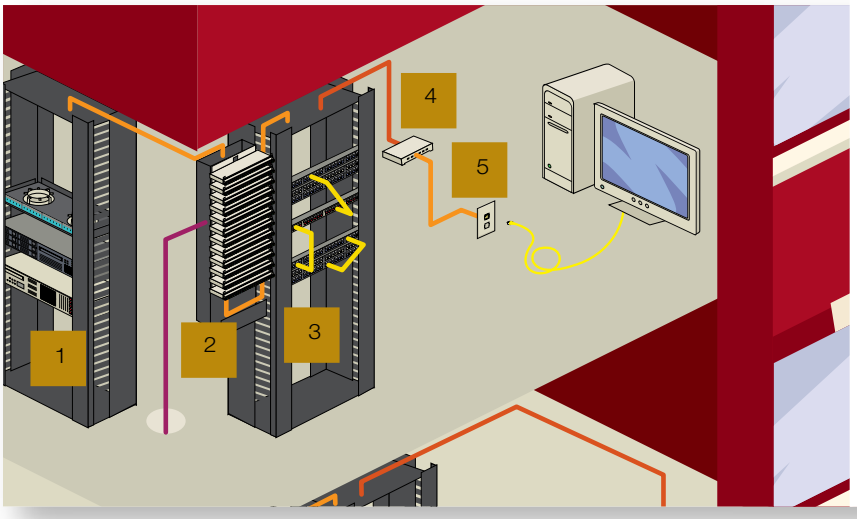
Safety Certifications:

ETL/cETL Listed

G10FP GigaSPEED X10D F/UTP Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCGGJ2	G10FP	G10FP on 1295 solid F/UTP Cordage, F/UTP Modular Patch Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCG4J2	G10FP117	G10FP Single-ended solid F/UTP Cordage, F/UTP Modular Patch Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCGQJ2	G10FP-MFP520	G10FP to MFP520B on 1295 solid F/UTP Cordage Zone Extension Cord	0	1,2,3,8,9	F,M	3-300 ft / 1-100 m
CPCGGK2	G10FP-P	G10FP on 2295 solid Plenum F/UTP Cordage, F/UTP Modular Patch Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCG4K2	G10FP117-P	G10FP Single-ended solid Plenum F/UTP Cordage, F/UTP Modular Patch Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCGQK2	G10FP-MFP520-P	G10FP to MFP520B on 2295 solid Plenum F/UTP Cordage Zone Extension Cord	0	3,8,Z	F,M	3-300 ft / 1-100 m
CPCGGL2	G10FP-L	G10FP on 3295 solid LSZH F/UTP Cordage F/UTP Modular Patch Cord	0	8	F,M	3-300 ft / 1-100 m
CPCG4L2	G10FP117-L	G10FP Single-ended solid LSZH F/UTP Cordage F/UTP Modular Patch Cord	0	8	F,M	3-300ft / 1-100m
CPCGQL2	G10FP-MFP520-L	G10FP-MFP520B on 3295 solid LSZH F/UTP Cordage Zone Extension Cord	0	8	F,M	3-300 ft / 1-100 m
CPCQQV2	MFP520-MFP520	MFP520B to MFP520B on 1291 F/UTP Cable Pre-terminated Cord	0	8,C,Z	F,M	50-300ft / 15-100m

GigaSPEED® XL Solution Exceeding Category 6



1 Racks
2 360 VisiPatch System
3 1100GS3 PATCHMAX GS3/iPatch modular patch panels
4 Optional zone box with MGS400s
5 MGS400 outlet and faceplate
1071/2071/3071 U/UTP cable
GS8E117 equipment cord
GS8E patch cord

GigaSPEED XL 7 Solution

Features and Benefits:

- Performance guaranteed to meet or exceed Category 6/Class E Channel Specifications to 250 MHz
- Performance guaranteed up to 6 connections in any length channel configuration up to 100 meters
- Channel optimized using Modal Decomposition Modeling
- Supports IEEE 802.3 1000BASE-T, TIA-854-A 1000BASE-TX, ATM Forum CB1G plus other legacy LANs and applications (Video, BAS)
- Backward compatible with existing SYSTIMAX cable and connecting hardware

SYSTIMAX channels comprised of GigaSPEED XL passive products are capable of delivering potentially in excess of 1.2 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

SYSTIMAX 360 GigaSPEED XL products include:

- 4-Pair 1071/2071/3071 U/UTP Cables
- PATCHMAX GS3 and 1100GS3 Patch Panels
- SYSTIMAX Modular Patch Panels
- MGS400 Telecommunications Outlets
- GS8E Patch and Workstation Cords
- VisiPatch 360 System
- VisiPatch System

SYSTIMAX GigaSPEED XL7 Category 6 Guaranteed Channel Performance

Guaranteed Performance Specifications for GigaSPEED XL7 Solution

Electrical Parameter (1 - 250 MHz)	Guaranteed Channel Margins to Category 6/Class E ANSI/TIA-568-C.2 and ISO 11801 Edition 2.0
Insertion Loss	5.0 %
NEXT	6.0 dB
PSNEXT	7.5 dB
ELFEXT	6.0 dB
PSELFEXT	8.0 dB
Return Loss	4.0 dB

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Delay (ns)	Delay Skew (ns)
1.0	2.0	71.0	69.0	69.5	67.5	69.3	68.3	23.0	580	30
4.0	3.8	69.0	65.2	68.0	64.2	57.2	56.2	23.0	562	30
8.0	5.4	64.2	58.8	63.1	57.7	51.2	50.2	23.0	557	30
10.0	6.0	62.6	56.6	61.5	55.5	49.3	48.3	23.0	555	30
16.0	7.6	59.2	51.6	58.1	50.4	45.2	44.2	22.0	553	30
20.0	8.6	57.6	49.1	56.5	47.9	43.2	42.2	21.5	552	30
25.0	9.6	56.0	46.4	54.8	45.2	41.3	40.3	21.0	551	30
31.25	10.8	54.4	43.6	53.2	42.4	39.4	38.4	20.5	550	30
62.5	15.6	49.4	33.7	48.1	32.4	33.3	32.3	18.0	549	30
100.0	20.2	45.9	25.7	44.6	24.3	29.3	28.3	16.0	548	30
200.0	30.0	40.8	10.8	39.4	9.4	23.2	22.2	13.0	547	30
250.0	34.1	39.1	5.0	37.7	3.5	21.3	20.3	12.0	546	30

Note: The table provides reference values only. All parameters comply with the governing equations over the entire frequency range. All values and equations apply to worst-case channels utilizing 4-pair 71E series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for any channel lengths up to 100 meters.

GigaSPEED® XL Category 6 1071E Non-Plenum Cable

The 1071E 4-Pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.



1071 004ESL 4/23 R1000

Physical Specifications:

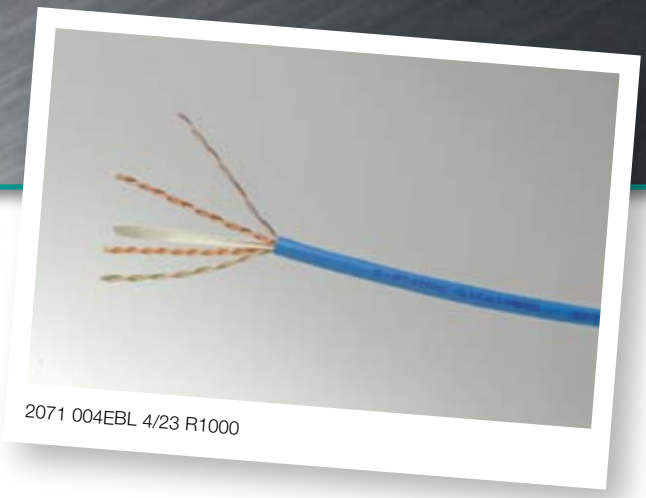
Weight: 25.6 lbs/1,000 ft (38.2 kg/km)
Nominal Jacket Thickness: 0.022 in (0.56 mm)
Nominal Outside Diameter: 0.232 in (5.89 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
ISO/IEC 11801: 2002 (Edition 2) Class E
CENELEC EN50173: 2002 (Edition 2) Category 6
ETL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1071E BK 4/23 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	700212129
1071E BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	760004697
1071E BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760080671
1071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760004689
1071E GR 4/23 W1000	4	Green	1,000 ft (305 m)	We-Tote Box	760039610
1071E GR 4/23 R3000	4	Green	3,000 ft (914 m)	Reel	760081307
1071E LB 4/23 R1000	4	Light Blue	1,000 ft (305 m)	Reel	700211956
1071E LB 4/23 R3000	4	Light Blue	3,000 ft (914 m)	Reel	760040105
1071E LB 4/23 W1000	4	Light Blue	1,000 ft (305 m)	We-Tote Box	700211964
1071E LL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700212087
1071E LL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	700212095
1071E OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700212111
1071E OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700212103
1071E PK 4/23 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760011858
1071E PR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760093286
1071E PR 4/23 W1000	4	Purple	1,000 ft (305 m)	We-Tote Box	760039644
1071E RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700212012
1071E RD 4/23 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700212020
1071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700211923
1071E SL 4/23 R3000	4	Slate	3,000 ft (914 m)	Reel	760040097
1071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	700211931
1071E SG 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700212053
1071E SG 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	700212061
1071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700214208
1071E WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760040089
1071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700212046
1071E YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700211980
1071E YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	700211998

GigaSPEED® XL Category 6 2071E Plenum Cable


2071 004EBL 4/23 R1000

The 2071E 4-pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

The 2071E 4-pair cable is composed of bare solid copper conductors insulated with Fluorinated-Ethylene-Propylene (FEP). The core of twisted pairs is jacketed with a low smoke PVC. It conforms to the low flame, low smoke requirements of the NEC.

Physical Specifications:

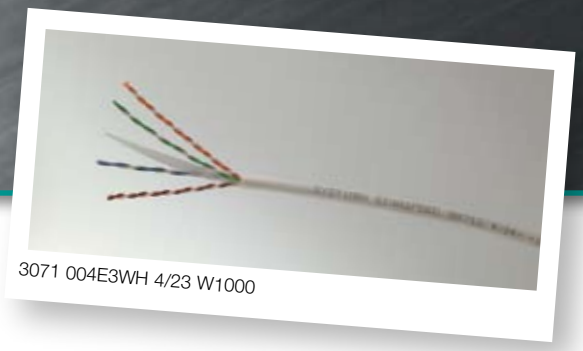
Weight: 29.1 lbs/1,000 ft (13.2 kg/304.8 m)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.224 in (5.69 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 71%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
ISO/IEC 11801: 2002 (Edition 2) Class E
CENELEC EN50173: 2002 (Edition 2) Category 6
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2071E BK 4/23 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	700210230
2071E BK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	700210222
2071E BL 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	700210081
2071E BL 4/23 R3000	4	Blue	3,000 ft (915 m)	Reel	700210099
2071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	700208093
2071E LL 4/23 R1000	4	Lilac	1,000 ft (305 m)	Reel	700210206
2071E LL 4/23 R3000	4	Lilac	3,000 ft (915 m)	Reel	760021212
2071E LL 4/23 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	700210214
2071E OR 4/23 R1000	4	Orange	1,000 ft (305 m)	Reel	700210008
2071E OR 4/23 R3000	4	Orange	3,000 ft (915 m)	Reel	760070367
2071E OR 4/23 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700210024
2071E PK 4/23 R1000	4	Pink	1,000 ft (305 m)	Reel	760038554
2071E PK 4/23 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760011841
2071E PR 4/23 R1000	4	Purple	1,000 ft (305 m)	Reel	760055830
2071E RD 4/23 R1000	4	Red	1,000 ft (305 m)	Reel	700210248
2071E RD 4/23 R3000	4	Red	3,000 ft (915 m)	Reel	760043158
2071E RD 4/23 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700210263
2071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700210198
2071E SL 4/23 R3000	4	Slate	3,000 ft (915 m)	Reel	760005652
2071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	700214372
2071E SG 4/23 R1000	4	Spring Green	1,000 ft (305 m)	Reel	700210156
2071E SG 4/23 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760021204
2071E SG 4/23 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	700210164
2071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700210032
2071E WH 4/23 R3000	4	White	3,000 ft (915 m)	Reel	700210057
2071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700208101
2071E YL 4/23 R1000	4	Yellow	1,000 ft (305 m)	Reel	700210131
2071E YL 4/23 R3000	4	Yellow	3,000 ft (914 m)	Reel	760047555
2071E YL 4/23 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	700210123

GigaSPEED® XL Category 6 3071E LSZH Cable


3071 004E3WH 4/23 W1000

The 3071E 4-pair GigaSPEED XL Cable meets or exceeds Category 6/Class E attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 6. The 71E GigaSPEED XL cables feature a patent-pending thin and easy-to-remove bisector tape that delivers the performance benefits of more traditional fluted center members without the associated stiffness and size.

3071E cable is composed of solid copper conductors insulated with non-halogen high-density polyethylene and jacketed with a low smoke zero halogen compound.

Physical Specifications:

Weight: 25.0 lbs/1,000 ft (37.3 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.231 in (5.87 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 6
ISO/IEC 11801: 2002 (Edition 2) Class E
CENELEC EN50173: 2002 (Edition 2) Category 6
IEC 754 part 2, Non-halogen based on pH and conductivity measurements
IEC 1034 part 2, Smoke emission
"E" version cables are tested to IEC 332 part 3 for Flammability and Fire Retardant
NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3071 004EBK 4/23 R1000	4	Black	1,000 ft (305 m)	Reel	700216369
3070A WH 4/23 R1000	4	Blue	1,000 ft (305 m)	Reel	700216484
3071E BL 4/23 R3000	4	Blue	3,000 ft (914 m)	Reel	760081265
3071E BL 4/23 R4000	4	Blue	4,000 ft (1219 m)	Reel	760077800
3071E BL 4/23 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	700216492
3071E GN 4/23 R1000	4	Green	1,000 ft (914 m)	Reel	760030882
3071E RD 4/23 R3000	4	Red	3,000 ft (914 m)	Reel	760081273
3071E RD 4/23 R4000	4	Red	4,000 ft (1219 m)	Reel	760077818
3071E SL 4/23 R1000	4	Slate	1,000 ft (305 m)	Reel	700216419
3071E SL 4/23 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	760095554
3071E WH 4/23 R1000	4	White	1,000 ft (305 m)	Reel	700216443
3071E WH 4/23 R3000	4	White	3,000 ft (914 m)	Reel	760081281
3071E WH 4/23 R4000	4	White	4,000 ft (1219 m)	Reel	760077826
3071E WH 4/23 W1000	4	White	1,000 ft (305 m)	We-Tote Box	700216450

Category 6, Outdoor 1571 Cable


1571 004ABK 4/23 R1000

The SYSTIMAX Category 6, Outdoor 1571 Cable consists of polyethylene, insulated conductors, tightly twisted into four pairs. The pairs are stranded around a polyolefin fluted center member, filled with a flooding compound and jacketed with a black polyethylene jacket. The 1571 cable is fully compliant with Category 6 requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801.

Physical Specifications:

Weight: 27.3 lbs/1,000 ft (40.6 kg/km)
Nominal Jacket Thickness: 0.020 in (0.51 mm)
Nominal Outside Diameter: 0.250 in (6.35 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -40°F to 140°F (-40°C to 60°C)
Gauge: 23 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 62%
Maximum DC Resistance: 7.61 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: Category 6
ANSI/TIA-568-C.2
ISO/IEC 11801

Product Number	Pair Count	Color	Length	Package	Material ID
1571A BK 4/24 R1000	4	Black	1,000 ft (305 m)	Reel	760008888
1571A BK 4/24 R3000	4	Black	3,000 ft (915m)	Reel	760090043

SYSTIMAX 360™ GigaSPEED® XL 1100GS3 Panel


360 GigaSPEED® XL 1100GS3 24 Port Panel


360 GigaSPEED® XL 1100GS3 48 Port Panel

Panels are available in 1U and 2U options and feature the elegant SYSTIMAX 360™ design. Enhanced rear cable management features make installation easier over current cable bundling/dressing methods by reducing time and steps to tie down bundles of cable on the rear of the panels.

The SYSTIMAX 360™ "iPatch-ready" copper panels can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360™ solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.

Features and Benefits:

- Easy cable routing and bundling through improved rear cable management
- Supports deployment of InstaPATCH® Cu pre-terminated copper solutions
- Available in 24 port (1U) and 48 port (2U) options
- Features the elegant SYSTIMAX 360™ design
- Available in iPatch-Ready versions (field upgradable to iPatch without the need to remove patch cords, meaning no network downtime) or factory assembled iPatch versions

360 GigaSPEED 1100GS3 Panels

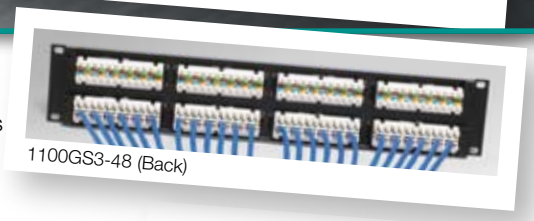
Product Number	Detailed Description	Material ID	iPatch Ready	iPatch
360-1100-GS3-24	360 1100GS3 24 Port Patch Panel	760093419	Yes	
360-1100-GS3-48	360 1100GS3 48 Port Patch Panel	760093427	Yes	
360-iP-1100-GS3-24	360 iPatch 1100GS3 24 Port Panel	760104984		Yes
360-iP-1100-GS3-48	360 iPatch 1100GS3 48 Port Panel	760105007		Yes
360-1100-GS3-DM	360 1100GS3 Distribution Module	760101576		
360-1100-LABEL	360 1100 Label Kit	760106161		
360-1100-BEZEL-1U	360 1100 Bezel Kit - 1U	760101931		
360-1100-BEZEL-2U	360 1100 Bezel Kit - 2U	760101949		
360-1100-GS3-1U	360 1100GS3 1U Panel Kit (Empty)	760103689		
360-1100-GS3-2U	360 1100GS3 2U Panel Kit (Empty)	760103697		
360-RCM-BM	360 Rear Cable Management (Bar Mountable)	760104398		
360-RCM-RM	360 Rear Cable Management (Rack Mountable)	760104737		
360-iP-UP-KIT-1100-24	360 iPatch Upgrade Kit for 360 1100 24 Port Panel	760104992		
360-iP-UP-KIT-1100-48	360 iPatch Upgrade Kit for 360 1100 48 Port Panel	760105015		

Note: iPatch Ready panels are upgradable to iPatch with the addition of the iPatch Upgrade Kits (360-iP-UP-KIT-1100).

* The Rack Mountable Cable Manager (760104737) can not be mounted in a cabinet. The Bar Mountable Cable Manager (760104398) should be used for mounting in a cabinet.

GigaSPEED® XL 1100GS3 Modular Panel


1100GS3-24


1100GS3-48 (Back)


1100AGS3-24-Angled

The 1100GS3 Modular Patch Panel is a 19-inch rack or wall mountable 8-pin modular jack panel that accommodates repeated line moves, additions and rearrangements. Installation is easy using proven 110 IDC gas tight terminations in the back with easy-to-read labeling guides. Designed by CommScope Labs as part of the fully tuned and integrated GigaSPEED XL cabling solutions, the 1100GS3 provides an industry standard panel footprint but with many performance and feature extras.

The SYSTIMAX 1100AGS3 panel is angled to allow the cable to flow to each side of the rack. This enables the patch cords to be routed directly into vertical cable managers. It also allows the labeling scheme and port identification to be visible at all times.

The 1100GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/IEC Category 6/Class E specifications
- Vertical and horizontal cord organizers available to improve patch cord management
- Available in 24- and 48-port configurations featuring universal A/B labeling
- 110 connector terminations on rear of panel allow quick and easy installation of 22 to 24 AWG cable
- Attractive black powder covered high-strength steel panel comes equipped with a removable rear mounted cable management bar
- Can support network line speeds in excess of 1 Gbps
- Each panel comes ready to install, including front and rear labels
- Backward compatible with Category 5e, 5 and 3 cords and cables, however optimal performance is achieved when used with GigaSPEED GS8E patch cords
- Certified component of an integrated GigaSPEED XL Solution
- Qualifies for a 20-Year Extended Product Warranty and Applications Assurance when included in a registered SYSTIMAX GigaSPEED channel

Physical Specifications:

Height: 24-Ports: 1.74 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)
Width: 19 in (48.26 cm)
Depth: 1.60 in (4.06 cm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation resistance: 500 MΩ minimum
Current rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 6
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-24	1100 GS3 24-Port Panel with Term. Mgr.	24 Ports	760062372
1100GS3-48	1100 GS3 48-Port Panel with Term. Mgr.	48 Ports	760062380
1100AGS3-24	1100A GS3 24-Port Panel with Term. Mgr.	24 Ports	760066563
1100AGS3-48	1100A GS3 48-Port Panel with Term. Mgr.	48 Ports	760066571
1100GS3-DM	1100 GS3-Distribution Module	6 Ports	760065771
6-Port PM/1100 Icon Label Holder Kit	6-Port 1100 Icon Label Holder Kit		760001404
1100PM Panel Label kit	1100PM Panel Label Kit	5/Kit (32 labels/sheet)	760072116
1100GS3 Blank Insert	1100GS3 Blank Insert		760018069
1100PM-TM	Termination Manager Kit	24 Ports	760051201

1100GS3 GigaSPEED XL Modular Patch Panel (cont.)

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-1U (empty)	1100GS3 1U Panel Kit (empty)	4 Modules	760001776
1100GS3-2U (empty)	1100GS3 2U Panel Kit (empty)	8 Modules	760001784
1100AGS3-1U (empty)	1100AGS3 1U Panel Kit (empty)	4 Modules	760072082
1100AGS3-2U (empty)	1100AGS3 2U Panel Kit (empty)	8 Modules	760092809

Multimedia Distribution Hardware


1100GS3-1U

Multimedia panel product lines are made up of basic panel kits and various copper and fiber modules with LC, SC, ST adapters. The 1100GS3 panel kits have two configurations. The 1U kit supports four modules, and the 2U kit supports eight modules. There are six adapters in both SC and ST modules and 12 adapters in the LC module.

This modular approach offers total flexibility in selecting the required fiber adapters. In addition, it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL installations by providing the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The 1100GS3 Multimedia panel kits can be mounted in 19-inch racks for enterprise applications. Panel kits will include cable retainers and fasteners, labels, mounting screws and installation instructions.

Multimedia Panel

Product Number	Detailed Description	Modules/Ports	Material ID
1100GS3-1U (empty)	1100GS3-1U Panel Kit (empty)	4 Modules	760001776
1100GS3-2U (empty)	1100GS3-2U Panel Kit (empty)	8 Modules	760001784
1100AGS3-1U (empty)	1100AGS3-1U Panel Kit (empty)	4 Modules	760072082
1100AGS3-2U (empty)	1100AGS3 2U Panel Kit (empty)	8 Modules	760092809
1100GS5-1U (empty)	1100GS5 1U Panel Kit (empty)	4 Modules	760092775
1100GS5-2U (empty)	1100GS5 2U Panel Kit (empty)	8 Modules	760092817
1100AGS5-1U (empty)	1100GS5 1U Panel Kit (empty)	4 Modules	760092825
1100AGS5-2U (empty)	1100GS5 2U Panel Kit (empty)	8 Modules	760092833

Multimedia Modules

Product Number	Detailed Description	Modules/Ports	Material ID
1100-DM-GS3-RJ45	1100GS3 Copper Module	6 RJ45	760065771
1100-DM-GS3-LS-SC/SC	1100GS3 LazrSPEED SC Module	6 SC	760001792
1100-DM-GS3-LS-ST/ST	1100GS3 LazrSPEED ST Module	6 ST	760001800
1100-DM-GS3-LS-LC/LC	1100GS3 LazrSPEED LC Module	12 LC	760001818
1100-DM-GS3-MM-SC/SC	1100GS3 OptiSPEED SC Module	6 SC	760001826
1100-DM-GS3-MM-ST/ST	1100GS3 OptiSPEED ST Module	6 ST	760001834
1100-DM-GS3-MM-LC/LC	1100GS3 OptiSPEED LC Module	12 LC	760001842
1100-DM-GS3-SM-SC/SC	1100GS3 TeraSPEED SC Module	6 SC	760001859
1100-DM-GS3-SM-ST/ST	1100GS3 TeraSPEED ST Module	6 ST	760001867
1100-DM-GS3-SM-LC/LC	1100GS3 TeraSPEED LC Module	12 LC	760001875
1100-DM-Blank	Blank Module		760018069

SYSTIMAX 360™ GigaSPEED® XL PATCHMAX® GS3 Panels



SYSTIMAX 360™ GigaSPEED® XL PATCHMAX® GS3 Panel

SYSTIMAX 360™ GigaSPEED® XL PATCHMAX® GS3 panels offer easy cable routing and bundling utilizing the rear cable manager and are available in a 24 port configuration. The 360 PATCHMAX GS3 panels also support deployment of InstaPATCH® Cu pre-terminated copper and features the elegant SYSTIMAX 360 design.

The PATCHMAX GS3 panels accept four (4) PATCHMAX GS Distribution Modules which can be rotated forward, allowing front-access to the 110 type IDC terminals for easy cable termination. PATCHMAX GS Distribution Modules feature an innovative termination manager and rear housing which provides easier, faster, more reliable terminations and reduced variability in the placement and termination of cables to the panel.



360 PATCHMAX GS3 48 Port Patch Panel

Features and Benefits:

- Improved rear cable manager makes cable routing and bundling easier
- Supports deployment of InstaPATCH Cu pre-terminated copper
- Available in 24 port (2U) configuration
- Features elegant SYSTIMAX 360 design
- Innovative 2-way mounting and terminating improving installation for limited rear access applications
- Distribution modules can be snapped onto front of panel for easy front access to rear 110 type IDC termination field
- Designed for simplified administration with built-in cord retainer fingers
- Allows all 24 cords to be routed in the same direction
- 1 to 24 port labeling and identification
- Meets 606 labeling standard

Product Number	Detailed Description	Material ID
360-PM-GS3-2U	360 PATCHMAX GS3 24 Port Patch Panel	760102244
360-PM-GS3-DM	360 PATCHMAX GS3 Distribution Module	760102269
360-PM-KIT-2U	360 PATCHMAX Panel Kit - 2U	760108993
360-PM-GS3-2U-48	360 PATCHMAX GS3 48 Port Patch Panel	760117366
360-PM-GS3-DM-12	360 PATCHMAX GS3 Distribution Module - 12	760117382
360-PM-KIT-2U-48	360 PATCHMAX Panel Kit - 2U – 48	760117408

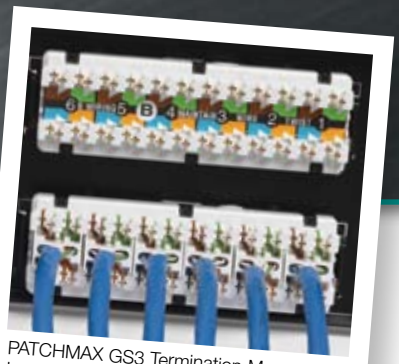


PATCHMAX® GS3 24 Port Patch Panel, Front View



PATCHMAX® GS3 24 Port Patch Panel, Rear View

PATCHMAX® GS3 GigaSPEED® XL Distribution Hardware


PATCHMAX GS3 Termination Manager Installation


PM-GS3-48

The PATCHMAX GS3 panel system helps unleash the power of an integrated GigaSPEED XL copper and fiber optic LazrSPEED/TeraSPEED/OptiSPEED cabling solution while maintaining all of the innovative features that have made PATCHMAX unique in the industry. Its unique modularity and patch cord management system continue to provide unmatched flexibility to MIS managers with the ability to mix and match copper and fiber media in the same panel.

The 19-inch rack mountable patch panel is designed to accept 4 or 8 six-port Distribution Modules (DM) which can be rotated forward, allowing front access to the 110 type IDC terminals for easy cable termination. Built-in horizontal patch cord management brackets provide support for patch cords as well as a holder for the DM modules during installation.

This modular approach offers total flexibility in selecting the required copper and fiber adapters. In addition it provides for fiber and GigaSPEED XL copper solutions since both fiber and GigaSPEED XL modules can fit into the same panel kit. This feature also supports existing GigaSPEED XL installations by providing the option of a cost effective upgrade from copper to fiber solutions by simply replacing the copper modules with the fiber modules in conjunction with the cable changes.

The PATCHMAX GS3 Distribution Modules feature an innovative termination manager and redesigned rear housing. The termination manager and rear housing provide for easier, faster, more reliable terminations, and reduced variability in the placement and termination of cables to the panel.

Physical Specifications:

Height: 4 Module Panel: 3.53 in (8.9 cm)
8 Module Panel: 5.29 in (13.34 cm)
Width: 4 Module Panel: 19 in (48.3 cm)
8 Module Panel: 19 in (48.3 cm)
Depth: 4 Module Panel: 8.13 in (20.5 cm)
8 Module Panel: 8.13 in (20.5 cm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 6
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS3-24	PATCHMAX GS3 24-Port Patch Panel with Termination Manager	24 Ports	760062356
PM-GS3-48	PATCHMAX GS3 48-Port Patch Panel with Termination Manager	48 Ports	760062364
PM-GS3-DM	PATCHMAX GS3 Distribution Module	6 Ports	760065763
PM-DM-GS3-MM-LC/LC	PATCHMAX GS3-OptiSPEED LC Module	12 LC	760001735
PM-DM-GS3-SM-SC/SC	PATCHMAX GS3-TeraSPEED SC Module	6 SC	760001743
PM-DM-GS3-SM-ST/ST	PATCHMAX GS3-TeraSPEED ST Module	6 ST	760001750
PM-DM-GS3-SM-LC/LC	PATCHMAX GS3-TeraSPEED LC Module	12 LC	760001768
1100PM-TM	Termination Manager Kit	24 Ports	760051201

PATCHMAX GS3 GigaSPEED XL Distribution Hardware

Product Number	Detailed Description	Modules/Ports	Material ID
PM-GS3-2U	PATCHMAX GS3-2U Panel Kit (empty)	4 Modules	760001669
PM-GS3-3U	PATCHMAX GS3-3U Panel Kit (empty)	8 Modules	760001677
PM-DM-GS3-LS-SC/SC	PATCHMAX GS3-LazrSPEED SC Module	6 SC	760001685
PM-DM-GS3-LS-ST/ST	PATCHMAX GS3-LazrSPEED ST Module	6 ST	760001693
PM-DM-GS3-LS-LC/LC	PATCHMAX GS3-LazrSPEED LC Module	12 LC	760001701
PM-DM-GS3-MM-ST/ST	PATCHMAX GS3-OptiSPEED ST Module	6 ST	760001727
PM-DM-GS3-MM-SC/SC	PATCHMAX GS3-OptiSPEED SC Module	6 SC	760001719

GigaSPEED® XL Information Outlet


MGS400-318 and MGS400-262

The MGS400 Information Outlet features proprietary crosstalk cancellation techniques for superior Near End Crosstalk (NEXT and PSNEXT) performance that provides unmatched throughput performance when installed as part of a complete GigaSPEED XL channel. The solution is guaranteed to exceed the Category 6/Class E channel specifications for ISO/IEC and TIA, even under the worst case channel configuration.


Kit: Cap with Strain Relief for MGS Outlet

Features and Benefits:

- Snaps into any CommScope modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
- Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Snap-on icons provided in strip of three: Computer Symbol, Data and GS, also sold separately in packages of 25, product number M61A
- Low-profile wire cap protects against contamination and secures connections
- The MGS400 outlet uses either T568A or T568B wiring
- The cap kit contains 25 natural colored cable ties and 25 clear colored MGS covers with strain relief
- Package quantity 100; Bulk Pack includes one handheld terminating device (760034215)

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm)
Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation resistance: 500 MΩ minimum
Current rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 6
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Color	Qty/Pkg	Material ID
MGS400-003	Black	1	700206667
MGS400-112	Orange	1	700206683
MGS400-123	Yellow	1	700206691
MGS400-226	Green	1	700206709
MGS400-262	White	1	700206725
MGS400-317	Red	1	700206741
MGS400-318	Blue	1	700206758
MGS400-361	Violet	1	700206675
MGS400-215	Misty Cream	1	760070326
MGS400-246	Ivory	1	700206717
MGS400-270	Gray	1	700206733
MGS400-317-K (Keyed)	Red	1	760006361
MGS400 BULK-318	Blue	100	760041996
MGS400 BULK-003	Black	100	760041962
MGS400 BULK-262	White	100	760041988
MGS400 BULK-246	Ivory	100	760041970
MGS400BH-BULK-112	Orange	100	760077156
Handheld Terminating Device	Black	25	760034215
Kit: Cap with Strain Relief for MGS Outlet	Clear	25	760056069

GigaSPEED® XL Modular Patch Cord and Pre-terminated Cord


GS8E

The GS8E Modular Patch Cord family of high bandwidth cords form parts of the GigaSPEED XL cabling solution. Electrical performance exceeds TIA and ISO/IEC Category 6/Class E specifications and is fully backward compatible with Category 5e and 5 connectors.

The GS8E Modular Patch Cord comes in a wide variety of variation which includes plenum, Low Smoke Zero Halogen (LSZH), stranded conductors, solid conductors, straight through wiring, crossover wiring and rollover wiring to meet different application needs.

The GS8E-S solid conductor cords consist of solid conductor cable, factory terminated with GS8E plugs.

The GS8E-SP is a solid plenum version of GS8E patch cord which provides extra margin on fire safety.

The GS8E-L, Low Smoke Zero Halogen (LSZH), is a stranded GigaSPEED XL Solution cord and GS8E-SL is a LSZH solid cable assembly which is terminated with GS8E plugs.

Patented plug design, improved 24 gauge cordage and a unique manufacturing process assure excellent electrical performance and low variability. Improved anti-snag feature provides maximum protection from snagging during moves and rearrangements.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/EIC Category 6/Class E specifications
- Can support network line speeds in excess of 1 gigabit per second
- Certified component of an integrated GigaSPEED XL Solution
- Qualifies for a 20-year product and applications assurance warranty when included in a certified SYSTIMAX GigaSPEED XL channel
- Ideal for Data Center architectural requirements

Physical Specifications:

Contact Material: Phosphor Bronze
Contact Plating: Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)
Insertion Life: 750 minimum
Plug Material: Polycarbonate UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 6

Safety Certifications:

ETL/cETL Listed

GigaSPEED XL GS8E Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC3312	GS8E	GS8E Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3313	GS8E-X3	GS8E 10/100BASE-T 2X3 & 1X4 Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3315	GS8E-X5	GS8E 1000BASE-T MDI-X Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3316	GS8E-R	GS8E Stranded Cordage Rollover Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC331T	GS8E-XT1	GS8E T1 Crossover Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3412	GS8E117	GS8E Single-ended Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC9912	GS8E-K	GS8E Keyed Plug Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC3382	GS8E-S	GS8E Solid Cable Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3482	GS8E117-S	GS8E Single-ended Solid Cable Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3282	GS8E-MGS400-S	GS8E-MGS400 on 1071 Solid Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3392	GS8E-L	GS8E Stranded LSZH Cordage Modular Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m
CPC3393	GS8E-L-X3	GS8E LSZH 10/100BASE-T 2x3 & 1x4 Crossover Modular Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m
CPC3322	GS8E-SL	GS8E Solid LSZH Cable Modular Patch Cord	0	8	F,M	1-300 ft / 1-100 m
CPC3222	GS8E-MGS400-SL	GS8E-MGS400 on 3071 Solid LSZH Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	8	F,M	1-300 ft / 1-100 m
CPC33E1	GS8E-SL-A	GS8E Solid LSZH Cordage, Modular Patch Cord A-wired	0	8	F,M	1-300 ft / 1-100 m
CPC34E1	GS8E117-SL-A	GS8E Single-ended Solid LSZH Cordage, Modular Patch Cord A-wired	0	8	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: C P C 3 3 1 2 - 0 1 F 0 0 1

GigaSPEED XL GS8E-P Plenum Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC3372	GS8E-SP	GS8E Solid Plenum Cable Modular Patch Cord	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3373	GS8E-SP-X3	GS8E Solid Plenum 10/100BASE-T 2X3 & 1X4 Crossover Cable Modular Patch Cord	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3472	GS8E117-SP	GS8E Single-ended Solid Plenum Cable	0	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC3272	GS8E-MGS400-SP	GS8E-MGS400 on 2071 Solid Plenum Cable Zone Extension Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: C P C 3 3 7 2 - 0 C F 0 0 7

Jack Color Options
- **0** Not Applicable
- **1** Black (BK)
- **2** Blue (BL)
- **3** Gray (GY)
- **4** Green (GR)
- **5** Ivory (IV)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)

Cord Color Options
- **1** Black (BK)
- **2** Light Blue (LB)
- **3** Dark Gray (DG)
- **4** Spring Green (GN)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)
- **B** Lilac (LL)
- **C** Slate (SL)
- **Z** Blue (BL)

Unit of Measure (UOM)
- **F** Feet
- **M** Meters

GigaSPEED XL MGS400-MGS400 Pre-terminated Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC2282	MGS400-MGS400-S	MGS400-MGS400 on 1071 Solid Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC2272	MGS400-MGS400-SP	MGS400-MGS400 on 2071 Solid Plenum Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	1,4,6,7,8,9,B,C,Z	F,M	1-300 ft / 1-100 m
CPC2222	MGS400-MGS400-SL	MGS400-MGS400 on 3071 Solid LSZH Cable Pre-terminated Cord	1,2,3,4,5,6,7,8,9	8	F,M	1-300 ft / 1-100 m

Ordering Material ID Example: CPC2282- 03F 050

GS8E-SM SecureMAX Tamper-Resistant Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
*CPCNN12	GS8E-SM	SecureMAX GS8E Tamper-resistant Patch Cord (Double side lock)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
*CPCN312	GS8E-SM-GS8E	SecureMAX GS8E Tamper-resistant Patch Cord (Single side lock)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPCNN12 -03F 007

Not available for sale in Europe, Australia and Japan

Jack Color Options
- **0** Not Applicable
- **1** Black (BK)
- **2** Blue (BL)
- **3** Gray (GY)
- **4** Green (GR)
- **5** Ivory (IV)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)

Cord Color Options
- **1** Black (BK)
- **2** Light Blue (LB)
- **3** Dark Gray (DG)
- **4** Spring Green (GN)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)
- **B** Lilac (LL)
- **C** Slate (SL)
- **Z** Blue (BL)

Unit of Measure (UOM)
- **F** Feet
- **M** Meters



SM-CL and SM-CL-KEY

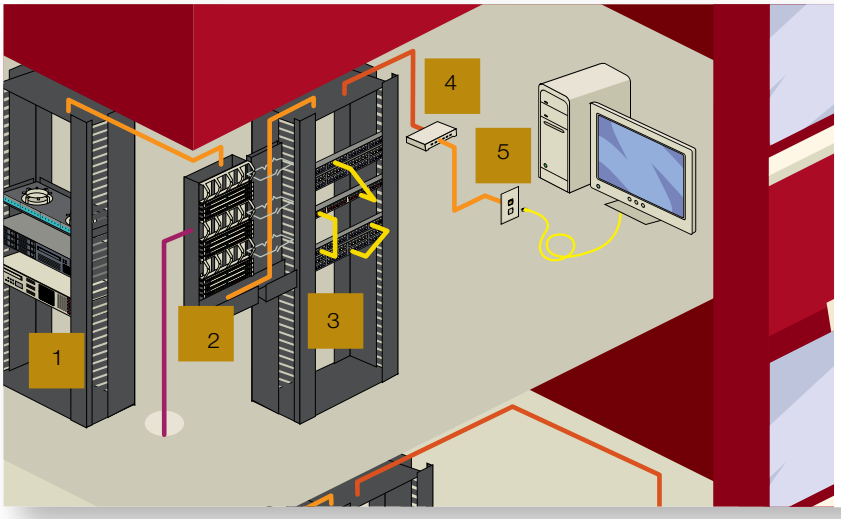
Tamper Resistant Patch Cord Accessories

Product Number	Detailed Description	Material ID
SM-CL	SecureMAX Patch Cord Lock	760099424
SM-CL-KEY	SecureMAX Patch Cord Lock Key with key chain	760099432
SM-CL-KIT	SecureMAX Patch Cord Lock Kit (25 locks, 2 keys)	760102145

*SM-CL is compatible with SYSTIMAX GS8E, GS10E, GSXP and 360GS10E plugs. SM-CL can be mounted on plug in the field without disturbance to live connection. Lock and Key are available in red only.

*Not available for sale in Europe, Australia and Japan. Contact Product Management for availability outside of North America.

PowerSUM Solution
Exceeding Category 5/5e



1 Racks
2 110 system
3 1100PS PATCHMAX PS modular patch panels
4 Optional zone box with MPS100E
5 MPS100E outlet and faceplate
1061/2061/3061/4061 U/UTP cable
PS117 equipment cord
D8PS patch cord

PowerSUM Solution

Features and Benefits:

- Performance extended to 155.5 MHz for channels
- Performance certified to exceed the Category 5e specifications for enhanced channels
- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications

PowerSUM channel performance specifications exceed not only the ANSI/TIA-568-C.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems but are also capable of providing stable and continual performance up to and beyond 100 MHz.

SYSTIMAX channels that are comprised exclusively of PowerSUM passive products end-to-end are capable of delivering 1.0 Gbps to the workstation in accordance with application standards and are eligible for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

PowerSUM products include:

- 4-pair 1061, 2061, 3061 U/UTP Cables
- VisiPatch System and 110 Connector System
- PATCHMAX and 1100 PowerSum Category 5e Patch Panels
- SYSTIMAX Modular Patch Panels
- MPS100E Information Outlets
- D8PS Patch and Workstation Cords
- 110, 117, 119 Patch Cords
- VisiPatch GS Patch Cords

SYSTIMAX PowerSUM Category 5e Guaranteed Channel Performance

Guaranteed Performance Specifications for 4-connection SYSTIMAX PowerSUM Channels[1]

Test Parameter	Guaranteed Margins Values
Attenuation	5%
Pair-Pair NEXT	3 dB
PSNEXT	5.5 dB
Pair-Pair ELFEXT	4.5 dB
PSELFEXT	5.5 dB
Return Loss	1 dB
Delay	580~546.9ns[2]
Delay Skew	30ns

[1] All guarantees described in this document are subject to the terms and conditions of the SYSTIMAX Extended Product Warranty and Applications Assurance Program

[2] Phase delay is frequency dependent

PowerSUM Guaranteed Channel Performance Specifications

Frequency (MHz)	Atten (dB)	pr-pr NEXT (dB)	ACR (dB)	PSNEXT (dB)	PSACR (dB)	pr-pr ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)	Phase Delay (ns)	Delay Skew (ns)
1.0	2.1	66.3	64.2	66.1	64.0	61.8	59.8	18.0	580	30
4.0	4.2	56.6	52.4	56.2	52.0	49.8	47.8	18.0	562	30
8.0	6.0	51.6	45.6	51.2	45.2	43.8	41.8	18.0	557	30
10.0	6.7	50.0	43.3	49.6	42.9	41.8	39.8	18.0	555	30
16.0	8.6	46.6	38.0	46.2	37.6	37.8	35.8	18.0	553	30
20.0	9.6	45.0	35.4	44.6	35.0	35.8	33.8	18.0	552	30
25.0	10.4	43.4	33.0	42.9	32.5	33.9	31.9	17.0	551	30
31.3	12.2	41.7	29.5	41.2	29.0	31.9	29.9	16.0	550	30
62.5	17.6	36.6	19.0	36.1	18.5	25.9	23.9	13.1	549	30
100.0	22.8	33.1	10.3	32.6	9.8	21.9	19.9	11.0	548	30
125.0	25.8	31.5	5.7	30.9	5.1	19.9	17.9	10.1	547	30
155.5	29.1	29.8	0.7	29.2	0.1	18.0	16.0	9.1	547	30

The table provides reference values only. All parameters comply with the governing equations given below over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair 61C+ or 61B series cables with full cross-connects, consolidation points and work area outlets (4 connections in a channel) for the length up to 100 meters.

PowerSUM Cable


Top cable: 1061 004BSL 4/24 W1000

Non Plenum 1061

The 1061 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173, and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e.

The 4-pair 1061C cable is composed of 24 AWG solid copper conductors, insulated with high-density polyolefin. The insulated conductors are twisted into pairs and jacketed with our specially formulated material. 1061C cable is CM rated.

The 4-pair 1061B cable is CMR rated and also ETL approved.
The 4-pair 1061B cable is composed of 24 AWG solid copper conductors with high-density polyolefin insulation and jacketed with low-smoke polyvinyl chloride (PVC).

Physical Specifications:

Weight: 20.8 lbs/1,000 ft (9.43 kg/304.8 m)
Nominal Jacket Thickness: 0.021 in (0.53 mm)
Nominal Outside Diameter: 0.200 in (5.08 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
ETL: CMR (for 1061B)
CM (for 1061C)

ETL CMR Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061B BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	107323636
1061B BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	107251696
1061B OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	108173840
1061B RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	700022643
1061B SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	107091936
1061B WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107819575

ETL CM Rated

Product Number	Pair Count	Color	Length	Package	Material ID
1061C BK 4/24 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	107509051
1061C BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	760004705
1061C BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760004671
1061C LB 4/24 R1000	4	Light Blue	1,000 ft (305 m)	Reel	107057853
1061C LB 4/24 W1000	4	Light Blue	1,000 ft (305 m)	We-Tote Box	106871809
1061C LL 4/24 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	107244022
1061C OR 4/24 R1000	4	Orange	1,000 ft (305 m)	Reel	107193435
1061C OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	700156177
1061C RD 4/24 R1000	4	Red	1,000 ft (305 m)	Reel	107244055
1061C RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	106926363
1061C SL 4/24 R1000	4	Slate	1,000 ft (305 m)	Reel	106836943
1061C SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	106836950
1061C SG 4/24 R1000	4	Spring Green	1,000 ft (305 m)	Reel	107244048
1061C SG 4/24 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	107244030

Product Number	Pair Count	Color	Length	Package	Material ID
1061C WH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107849283
1061C WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107147787
1061C YL 4/24 R1000	4	Yellow	1,000 ft (305 m)	Reel	106999071
1061C YL 4/24 W1000	4	Yellow	1,000 ft (305 m)	We-Tote Box	107001687

Plenum 2061 (4-pair)

The 2061 Plenum 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e and meet the ETL (CMP) requirements. The 2061 cable is composed of 24 AWG solid copper conductors insulated with flourinated ethylene propylene (FEP) and polyethylene (PE) and jacketed with low-smoke polyvinyl chloride (PVC).

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)
Nominal Jacket Thickness: 0.019 in (0.48 mm)
Nominal Outside Diameter: 0.180 in (4.57 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 73%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN 50173: 2002 (Edition 2) Category 5e
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061F BK 4/24 W1000	4	Black	1,000 ft (305 m)	We-Tote Box	760051615
2061F BL 4/24 R1000	4	Blue	1,000 ft (305 m)	Reel	760049585
2061F BL 4/24 R3000	4	Blue	3,000 ft (915 m)	Reel	760049643
2061F BL 4/24 W1000	4	Blue	1,000 ft (305 m)	We-Tote Box	760041913
2061F LL 4/24 W1000	4	Lilac	1,000 ft (305 m)	We-Tote Box	760051631
2061F OR 4/24 R1000	4	Orange	1,000 ft (305 m)	Reel	760049627
2061F OR 4/24 R3000	4	Orange	3,000 ft (915 m)	Reel	760049684
2061F OR 4/24 W1000	4	Orange	1,000 ft (305 m)	We-Tote Box	760041954
2061F PK 4/24 W1000	4	Pink	1,000 ft (305 m)	We-Tote Box	760066068
2061F PR 4/24 R1000	4	Purple	1,000 ft (305 m)	Reel	760058735
2061F PR 4/24 R3000	4	Purple	3,000 ft (915m)	Reel	760073114
2061F RD 4/24 W1000	4	Red	1,000 ft (305 m)	We-Tote Box	760051623
2061F SL 4/24 R1000	4	Slate	1,000 ft (305 m)	Reel	760049601
2061F SL 4/24 R3000	4	Slate	3,000 ft (915 m)	Reel	760049668
2061F SL 4/24 W1000	4	Slate	1,000 ft (305 m)	We-Tote Box	760041939
2061F SG 4/24 R1000	4	Spring Green	1,000 ft (305 m)	Reel	760049635
2061F SG 4/24 R3000	4	Spring Green	3,000 ft (915 m)	Reel	760049692
2061F SG 4/24 W1000	4	Spring Green	1,000 ft (305 m)	We-Tote Box	760049700

Low Smoke Zero Halogen (LSZH) 3061

The 3061A LSZH 4-pair cable meets or exceeds Category 5e/Class D attenuation and NEXT requirements in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Further, these cables are ETL listed as Category 5e. The 3061A LSZH cable is composed of 0.511 mm (24 AWG) bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs and jacketed with the low smoke non-halogen compound.

Physical Specifications:

Weight: 20.0 lbs/1,000 ft (29.8 kg/km)
Nominal Jacket Thickness: 0.021 in (0.53 mm)
Nominal Outside Diameter: 0.195 in (4.95 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

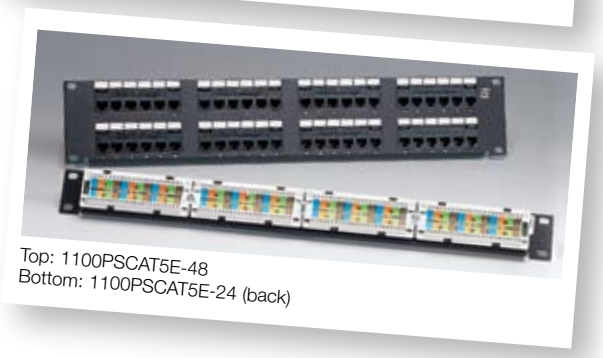
NVP (fastest pair @ 10 MHz): 70%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 3%
Maximum Mutual Capacitance at 1 kHz: 5.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
ISO/IEC 11801: 2002 (Edition 2) Class D
CENELEC EN50173: 2002 (Edition 2) Category 5e
IEC 754 part 2, Non-halogen based on pH and conductivity measurements
IEC 1034 part 2, Smoke emission
IEC 332 part 3, Flammability and flame retardant
NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3061A BL 4/24 R3000	4	Blue	3,000 ft (914 m)	Reel	760081232
3061A RD 4/24 R3000	4	Red	3,000 ft (914 m)	Reel	760081240
3061A WH 4/24 R1000	4	White	1,000 ft (305 m)	Reel	107573537
3061A WH 4/24 R3000	4	White	3,000 ft (914 m)	Reel	760081257
3061A WH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107573545

PowerSUM Modular Patch Panel



1100PSCAT5E-24-Angled



Top: 1100PSCAT5E-48
Bottom: 1100PSCAT5E-24 (back)

The 1100PSCAT5E Patch Panel is a 19-inch rack mountable panel available in straight or angled designs. The 1100PSCAT5E accommodates repeated line moves, additions and rearrangements. The IDC connection on the rear of the panel houses the printed wiring board that provides continuous connection to the 8-pin modular jacks on the front. The result is a hard-working panel that allows an IDC gas-tight termination of equipment on 110 connectors. The panel is available with 24 or 48 RJ45 ports. The 1100PSCAT5E Panel kit includes icon labels with plastic holders that you can mount on the front of the panel for easy port identification.

The minimum insertion life is 750 cycles, which allows for hundreds of moves and additions. Label strips for both the front and back of the panel allow for easy identification of circuits.

Features and Benefits:

- Supports IEEE 802.3 1000BASE-T plus other legacy LANs and applications
- PowerSUM channel performance specifications exceed not only the ANSI/TIA-568-C.2 and ISO 11801 Edition 2 for Category 5e/Class D cabling systems, but are also capable of providing stable and continual performance up to and beyond 100 MHz
- Available in 24 and 48 port versions
- Capable of handling T568A or T568B wiring
- Vertical and Horizontal cable organizers improve patch cord management (order separately, 1100C and 1100D)
- 110 Connections in rear allow for easy and quick installation of 22 to 24 gauge
- Cables routed and tied directly to the panel eliminating the rear cable management bar
- Supports 1Gb network line speeds
- Cat 5 and Cat 3 backward compatible
- PowerSUM 20 year warranty

Physical Specifications:

Height: 24-Ports: 1.75 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)
Width: 19.0 in (48.3 cm)
Depth: 1.60 in (4.96 cm)
Wire Termination Type:
Insulation displacement (ID), gas tight
Wire Size:
Conductor Type: Solid or stranded (7 strands)
Size: 26/24/22 AWG (0.40/0.51/0.64 mm)
Mechanical Data:
Plug Insertion Life: 750 minimum
Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)
Wire Retention: 24 AWG–typical pull out force
X-axis=10.6 lbs (47.3 N)
Y-axis=10.6 lbs (47.3 N)
Z-axis=2.4 lbs (10.7 N)
Environmental Conditions:
Temperature Range:
Storage: -40°F to 158°F (-40°C to 70°C)
Operational: 14°F to 140°F (-10°C to 60°C)
Relative Humidity: (operational) maximum, non-condensing 93%

Materials:
Plastic Components: Polycarbonate, self-extinguishing
Flammability Rating: UL-rated 94 V-O
Oxygen Index: 28.5% minimum
Contact Material: Phosphor Bronze
Description:
Insertion Life: 750 cycles
Plug/Jack Contact Force: 100g min. (3.5 oz.)
Plug Retention Force: 133 N min.
Operating Temperature Range: -10°C to 60°C degrees
Storage Temperature Range: -40°C to 70°C degrees
Humidity: 5 to 95% (noncondensing)
Height: 24-Ports: 4.38 cm (1U)
48-Ports: 8.83 cm (2U)
Width: 48.26 cm (19 inch)

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 5e
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
1100PSCAT5E-24	1100PS 24-Port Panel	24 Ports	108208919
1100PSCAT5E-48	1100PS 48-Port Panel	48 Ports	108208935
1100PSCAT5E-24-Angled	1100APS 24-Port Panel	24 Ports	760056580
1100PSCAT5E-48-Angled	1100APS 48-Port Panel	48 Ports	760056598
1100PS ICON Label - White			760001412
1100PS ICON Label - Blue			760001420

PATCHMAX® PowerSUM Distribution Hardware



Top: PM2150PSE-48
Bottom: PM2150PSE-24

PATCHMAX Distribution Hardware is a copper and fiber modular connecting hardware system. PATCHMAX components can be purchased individually or as a complete kit. It is designed to be mounted on EIA 310 Standard 19 inch (48.3 cm) rack/frame or 1100C type wall mount brackets.

The Category 5e copper kit PM2150 PowerSUM includes a 24-(48) port panel, 4 (8) DM21xx modules, a cable fastener kit, 1 (2) front retainers, 5 (10) rear retainers, 16 white/blue labels, straps, tape and installation instructions for the 24- and 48- port kits, respectively.

The P2040 and P2080 are individual, empty panels that hold 4 and 8 snap-in distribution modules, respectively. The P2040 or P2080 panels allow fiber and copper to be terminated in the same panel. A slack storage tray in the rear of the module maintains the correct buffered fiber bend radius.

Physical Specifications:

Height: 24-Ports: 3.53 in (8.9 cm)
48-Ports: 7.06 in (17.8 cm)
Width: 24-Ports: 19 in (48.3 cm)
48-Ports: 19 in (48.3 cm)
Depth: 24-Ports: 8.13 in (20.5 cm)
48-Ports: 8.13 in (20.5 cm)
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 5e
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

PATCHMAX PowerSUM Panels and Modules

Product Number	Detailed Description	Modules/Ports	Material ID
PM2150PSE-24	PATCHMAX PowerSUM Patch Panel, 24-Port	24 Ports	108320029
PM2150PSE-48	PATCHMAX PowerSUM Patch Panel, 48-Port	48 Ports	108320045
P2040 (empty)	PATCHMAX PS Panel for 4 Distribution Modules	4 Modules	107428591
P2080 (empty)	PATCHMAX PS Panel for 8 Distribution Modules	8 Modules	107428609

Product Number	Detailed Description	Material ID
DM2150PSE	PowerSUM Distribution Module, 6-Port	108320011
DM2302 SC/SC	OptiSPEED Multimode SC Module, 6 Connection	108116484
DM2302 SC/ST	OptiSPEED Multimode SC Front Module, 6 Connection	108116500
DM2302 ST/ST	OptiSPEED Multimode ST Module, 6 Connection	108116526
DM2302 ST/SC	OptiSPEED Multimode ST Front Module, 6 Connection	108116542
DM2302 LC/LC	OptiSPEED Multimode LC Module, 12 Connection	108267634
DM2303 SC/SC	TeraSPEED Single-mode SC Module, 6 Connection	108116492
DM2303 SC/ST	TeraSPEED Single-mode SC Front Module, 6 Connection	108116518
DM2303 ST/ST	TeraSPEED Single-mode ST Module, 6 Connection	108116534
DM2303 ST/SC	TeraSPEED Single-mode ST Front Module, 6 Connection	108116559
DM2303 LC/LC	TeraSPEED Single-mode LC Module, 12 Connection	108267642
DM2304 LC/LC	LazrSPEED Multimode LC Module, 12 Connection	108662131
PM2302 SC/SC-24	OptiSPEED Multimode SC 24 Connection Panel	108118027
PM2302 SC/ST-24	OptiSPEED Multimode SC Front 24 Connection Panel	108118043
PM2302 ST/ST-24	OptiSPEED Multimode ST 24 Connection Panel	108118068
PM2302 ST/SC-24	OptiSPEED Multimode ST Front 24 Connection Panel	108008084
PM2302 SC/SC-48	OptiSPEED Multimode SC 48 Connection Panel	108118100
PM2302 SC/ST-48	OptiSPEED Multimode SC Front 48 Connection Panel	108118126
PM2302 ST/ST-48	OptiSPEED Multimode ST 48 Connection Panel	108118142
PM2302 ST/SC-48	OptiSPEED Multimode ST Front 48 Connection Panel	108118167
PM2302 LC/LC-48	OptiSPEED Multimode LC 48 Connection Panel	108267659
PM2302 LC/LC-96	OptiSPEED Multimode LC 96 Connection Panel	108267675
PM2303 SC/SC-24	OptiSPEED Single-mode SC 24 Connection Panel	108118035
PM2303 SC/ST-24	OptiSPEED Single-mode SC Front 24 Connection Panel	108118050
PM2303 ST/ST-24	OptiSPEED Single-mode ST 24 Connection Panel	108118076
PM2303 ST/SC-24	OptiSPEED Single-mode ST Front 24 Connection Panel	108118092
PM2303 SC/SC-48	OptiSPEED Single-mode SC 48 Connection Panel	108118118
PM2303 SC/ST-48	OptiSPEED Single-mode SC Front 48 Connection Panel	108118134
PM2303 ST/ST-48	OptiSPEED Single-mode ST 48 Connection Panel	108118159
PM2303 ST/SC-48	OptiSPEED Single-mode ST Front 48 Connection Panel	108118175
PM2303 LC/LC-48	OptiSPEED Single-mode LC 48 Connection Panel	108267667
PM2303 LC/LC-96	OptiSPEED Single-mode LC 96 Connection Panel	108267683
DM2304 SC/SC	LazrSPEED Multimode SC module, 6 Connection	108662156
DM2304 ST/ST	LazrSPEED Multimode ST module, 6 Connection	108662164
PM2304 SC/SC-24	LazrSPEED Multimode SC 24 Connection Panel, 2U Height	108662065
PM2304 ST/ST-24	LazrSPEED Multimode ST 24 Connection Panel, 2U Height	108662107
PM2304 SC/SC-48	LazrSPEED Multimode SC 48 Connection Panel, 4U Height	108662081
PM2304 ST/ST-48	LazrSPEED Multimode ST 48 Connection Panel, 4U Height	108662123
PM2304 LC/LC-48	LazrSPEED Multimode LC 48 Connection Panel, 2U Height	108662024
PM2304 LC/LC-96	LazrSPEED Multimode LC 96 Connection Panel, 4U Height	108662040

PATCHMAX PowerSUM Accessories

Product Number	Detailed Description	Material ID
L2300-BL	Icons (4 strips, 6 icons per strip), blue	107536773
L2300-WH	Icons (4 strips, 6 icons per strip), white	107536823
R2100	Front Cord Retainer (Kit of 5)	108036690
R2200	Rear Cable Retainer	107638934
R2300	Velcro Fastener Kit	107670952
BP2100	Blank Plate	108028457
L2200-WH	Labels for Circuit Distribution Module, white	107656977
L2200-BL	Labels for Circuit Distribution Module, blue	107656928

PowerSUM Information Outlets


MPS100E-318

The MPS100E Modular Information Outlets are 8-position/8-conductor high-density modular information jacks designed for high speed networking applications using data transmission rates.

Features and Benefits:

- Snaps into any CommScope modular faceplate, frame or surface-mount box
- Can be mounted either at 90 degrees (straight) or 45 degrees (angled)
- Angled feature eliminates the need for special faceplates
- Multicolored identification labels assure fast, accurate installation
- Snap-on icons provided in strip of three: Computer Symbol, MPSE and DATA, also sold seperately in packages of 25, product number M61H
- Low-profile wire cap protects against contamination and secures connections
- Pair splitters and wider channel for enhanced conductor placement and termination
- The MPS100E outlet uses either the T568A or T568B wiring
- The MPS100E outlet is Category 5e compliant

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel under plate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm) (26 to 22 AWG)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm) (24 to 22 AWG)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 5e
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Wiring	Color	Qty/Pkg	Material ID
MPS100E-003	T568A, T568B	Black	1	108232695
MPS100E-112	T568A, T568B	Orange	1	108232703
MPS100E-123	T568A, T568B	Yellow	1	108232711
MPS100E-226	T568A, T568B	Green	1	108232729
MPS100E-246	T568A, T568B	Electrical Ivory	1	108232737
MPS100E-262	T568A, T568B	Electrical White	1	108232745
MPS100E-270	T568A, T568B	Electrical Gray	1	108232752
MPS100E-317	T568A, T568B	Red	1	108232760
MPS100E-318	T568A, T568B	Blue	1	108232778
MPS100E-361	T568A, T568B	Violet	1	108337726
MPS100E-215	T568B	Misty Cream	1	108480484
Cap PowerSUM Strain Relief	N/A	Transparent	100	760061333
Cap PowerSUM Strain Relief	N/A	Transparent	1000	760061341

PowerSUM Modular Patch Cord


D8PS

The D8PS Modular Patch Cord meets or exceeds Attenuation and NEXT Category 5 and Category 5e specifications for patch cords as specified in ISO/IEC 11801, CENELEC EN50173 and ANSI/TIA-568-C.2. Available in a variety of colors and lengths, the D8PS cords are ideal for high activity environments that require reliable data transmission.

Physical Specifications:

Contact Material: Phosphor Bronze
Contact Plating: Gold 50 micro-inch (1.27 microns)
Nickel 100 micro-inch (2.54 microns)
Insertion Life: 750 minimum
Plug Material: Polycarbonate UL-rated 94 V-O
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 5e

Safety Certifications:

ETL/cETL Listed

PowerSUM D8PS Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPC6642	D8PS	D8PS Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6641	D8PS-A	D8PS Stranded Cordage A-wired Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6442	PS117	D8PS Single-ended Stranded Cordage Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6643	D8PS-X3	D8PS 10/100BASE-T 2X3 & 1X4 Crossover Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC6441	PS117-A	D8PS Single-ended Stranded Cordage A-wired Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPC6642-0ZF007

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

25-Pair Category 5e U/UTP, 61 Series Cable


1061 025FSL 25/24 R4000

Non Plenum 1061

The 25-pair 1061 Cable is composed of 24 AWG bare solid copper conductors insulated with high density polyolefin. The insulated conductors are tightly twisted into pairs, stranded into mini-units and jacketed with a SYSTIMAX specially formulated PVC jacket. User-friendly standard 25-pair PIC color coding minimizes confusion when terminating on SYSTIMAX distribution hardware and Category 5/5e, 25-pair, telco-type, 525 connectors.

Physical Specifications:

Weight: 113 lbs/1,000 ft (51.26 kg/304.8 m)
Nominal Jacket Thickness: 0.027 in (0.69 mm)
Nominal Outside Diameter: 0.53 in (13.3 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Outside Diameter: 0.520 in (13.2 mm)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 69%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 14 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5e
ETL: CMR

Product Number	Pair Count	Color	Length	Package	Material ID
1061 025FSL 25/24 R1000	25	Slate	1,000 ft (305 m)	Reel	760026518
1061 025FSL 25/24 R4000	25	Slate	4,000 ft (1219 m)	Reel	760026526

Plenum 2061

The 25-pair 2061A Cable is ETL listed Category 5 and ETL listed type CMP for use in air return handling spaces. The cable has a user-friendly standard 25-pair PIC color coding scheme, which minimizes confusion when terminating on SYSTIMAX distribution hardware and the Category 5, 25-pair telco-type 525 Connector. The cable conductors are insulated with Fluorinated-Ethylene-Propylene (FEP), twisted into pairs, stranded into mini-units and jacketed with Plenum rated material.

Physical Specifications:

Weight: 104 lbs/1,000 ft (47.2 kg/304.8 m)
Nominal Jacket Thickness: 0.012 in (0.31 mm)
Nominal Outside Diameter: 0.46 in (11.7 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 75%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 4.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5
ETL: CMP

Product Number	Pair Count	Color	Length	Package	Material ID
2061 025BWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	760103044
2061 025BWH 25/24 R4000	25	White	4,000 ft (1,219 m)	Reel	760103051

Low Smoke Zero Halogen 3061

The PowerSUM 3061 Cable construction exceeds the requirements specified in ANSI/TIA-568-C.2 for Category 5e and ISO/IEC 11801 for Class D cabling. The cable design is constructed with 25 pairs of 24 AWG solid copper conductors. The pairs are arranged in seven groups, with three isolated from their adjacent groups by inclusion of a thin isolator tape. This tape can be separated from the cable construction without the use of any cutting tools, by simply tearing the tape away.

The PowerSUM 3061 025B cable design is also directly compatible with our 525 series connectors, when preconnectorized solutions are utilized. The absence of internal tubes or rigid separating elements makes the cable a natural match for these connectors.

Physical Specifications:

Weight: 115 lbs/1,000 ft (171 kg/km)
Nominal Jacket Thickness: 0.030 in (0.76 mm)
Nominal Outside Diameter: 0.500 in (12.70 mm)
Maximum Pulling Tension: 25 lbs (11.34 kg)
Operating Temperature: -4°F to 140°F (-20°C to 60°C)
Gauge: 24 AWG

Electrical Specifications:

NVP (fastest pair @ 10 MHz): 75%
Maximum DC Resistance: 9.38 Ohms/100 m
Maximum DC Resistance Unbalance: 5%
Maximum Mutual Capacitance at 1 kHz: 4.6 nF/100 m
Standards: ANSI/TIA-568-C.2 Category 5
IEC 754 part 2, Non-halogen based on pH and conductivity measurements
IEC 1034 part 2, Smoke emission
IEC 332 part 3, Flammability and flame retardant
NES 713: Toxicity index

Product Number	Pair Count	Color	Length	Package	Material ID
3061 025BWH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	760081208
3061 025BWH 25/24 R4000	25	White	4,000 ft (1,219 m)	Reel	760081216

2500 and 2512 Modular Patch Panel



Top: 2500CAT5PS2-48B
Bottom: 2500CAT5PS2-24B (back)

The 2500 Category 5, PowerSUM Patch Panel provides 8-pin modular patch on the front of the panel and female, 50-pin connections (patch) on the back.

The 2512 Category 5, PowerSUM Patch Panel provides two pairs to each 8-pin modular patch. Pair one is terminated on pins 1 and 2, and pair two is terminated on pins 3 and 6. Therefore, one 50-pin connector serves 12 jacks.

The 2512CAT5PS is wired to the IEEE 802.3, Ethernet 100BASE-TX and 100BASE-T2 standard.

Physical Specifications:

Height: 24-Ports: 1.75 in (4.38 cm)
48-Ports: 3.50 in (8.83 cm)
Width: 19.0 in (48.26 cm)
Depth: 1.60 in (4.06 cm)
Wire Termination Type: Insulation displacement (ID), gas tight
Wire Size:
Conductor Type: Solid or stranded (7 strands)
Size: 26/24/22 AWG (0.40/0.51/0.64 mm)
Mechanical Data:
Plug Insertion Life: 750 minimum
Wire Insertion Force: 24 AWG=13-28 lbs (58-125 N)
Wire Retention: 24 AWG–typical pull out force
X-axis=10.6 lbs (47.3 N)
Y-axis=10.6 lbs (47.3 N)
Z-axis=2.4 lbs (10.7 N)
Environmental Conditions:
Temperature Range:
Storage: -40°F to 158°F (-40°C to 70°C)
Operational: 14°F to 140°F (-10°C to 60°C)
Relative Humidity: (operational) maximum, non-condensing 93%
Materials:
Plastic components: Polycarbonate, self-extinguishing
Flammability Rating: UL-rated 94 V-O
Oxygen Index: 28.5% minimum
Contact Material: Phosphor Bronze

Electrical Specifications:

Insulation Resistance: 500 MΩ minimum
Current Rating: 1.5 A at 68°F (20°C)
TIA/EIA Category: 5
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
UL and cUL Listed

Product Number	Detailed Description	Modules/Ports	Material ID
2500CAT5PS2-24B	2500PS 24-Port Panel	24 Ports	108236142
2500CAT5PS2-48B	2500PS 48-Port Panel	48 Ports	108236159
2500CAT5PS2-24A	2500APS 24-Port Panel	24 Ports	108236126
2500CAT5PS2-48A	2500APS 48-Port Panel	48 Ports	108236134
2512CAT5PS2-48	2512PS 48-Port Panel	48 Ports	108236167

25-Pair Category 5 Connector & Tool


525-PA-003

The 525 Connectors are used to terminate 25-pair cables. The available configurations are: 90 degree plug, 180 degree in-line plug, 110 degree angled plug and 90 degree jack.

Features and Benefits:

- The 525 connector is compatible with industry standard 25-pair connectors while also providing keyed Category 5 connections with equipment using this feature. In addition, their unique design using crosstalk reduction techniques providing a 6 dB margin assures Category 5 performance throughout systems that use multiple connectors.
- 525-AP-003 110 degree angled plug was specifically designed for connection to electronics equipment requiring a 50-pin telco type connector. The 50-pin assembly is downward compatible and can be used to support 10BASE-T electronics or 100BASE-T or 155 Mbps ATM applications.
- The in-line (180 degree) end of the 50-pin cable assembly was specifically designed for connection to our 100BASE-T (50-pin Category 5) modular patch panel.
- For cable assemblies, refer to your local CommScope representative.

Physical Specifications:

Contact Plating: Gold 30 micro-inch (0.76 microns)
Nickel 50 micro-inch (1.27 microns)
Contact Force: 100 grams minimum
Insertion Life: 200 minimum
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Electrical Specifications:

TIA Category: 5
Maximum DC Resistance: 0.30 Ohms/100 m

Product Number	Type	Detailed Description	Qty/Pkg	Material ID
525-PA-003	Plug (Male)	90-degree Telco Plug (Bulk)	100	107487514
525-JA-003	Jack (Female)	90-degree Jack (Bulk)	100	107487498
525-AP-003	Plug (Male)	110-degree Angled Plug (Bulk)	100	108036732
525-CP-003	Plug (Male)	180-degree In-line Plug (Bulk)	100	107958233
525-PA-003	Plug (Male)	90-degree Telco Plug (Ind. Pk)	1	107487506
525-JA-003	Jack (Female)	90-degree Jack (Ind. Pk)	1	107487480
525-AP-003	Plug (Male)	110-degree Angled Plug (Ind. Pk)	1	108361916
525-CP-003	Plug (Male)	180-degree In-line Plug (Ind. Pk)	1	108361908
1803B Field Tool	Tool	Field Termination Tool for 525 Connectors	1	108135773

InstaPATCH® Cu Pre-Terminated Copper Solutions



12 leg 6x2 SwitchPack for use in switch harness

SYSTIMAX Pre-Terminated Copper Solutions provide pre-connectorized copper cable assemblies for your infrastructure needs.

InstaPATCH® Cu Pre-Terminated Copper Solutions feature a high-density, factory connectorized, factory tested, modular connectivity systems that allow installers to simply and quickly connect network components together. InstaPATCH Cu Solutions are designed to support locations, such as data centers, that require high density, rapid deployment and high performance.



12 leg Switch Harness equipped with the 6x2 SwitchPack

InstaPATCH Cu Pre-Terminated Copper Cable assemblies deliver hassle-free installation in a fraction of the time required by traditional implementations, ensuring that your network is up and running quickly. These solutions offer improved cable management and scalable capacity through their modular design. Pre-terminated assemblies provide price stability by minimizing the variable costs of termination, troubleshooting and rework. Engineered for rapid deployment, high performance and future-readiness, each of the SYSTIMAX pre-connectorized assemblies comes factory-tested and ready to install. InstaPATCH Cu Solutions are warranted by SYSTIMAX and backed by CommScope's industry-leading connectivity experience.

SwitchPack technology (SPT) supplies high-density switches with a pre-built, quick-disconnect feature, allowing superior cable management and extending the switch to patch panels where cross connects can be made. SwitchPack Technology brings greater reliability and serviceability to your network.

Features and Benefits:

- Speed – Installation up to eight times faster than traditional cabling.
- Flexibility – Multiple options for a variety of copper environments.
- Reliability – The SYSTIMAX InstaPATCH Cu Solution is backed by the SYSTIMAX Solutions 20-year Extended Product Warranty and Applications Assurance that we believe to be the best in the industry.
- Scalability – Plan for and install the exact number of ports you need now and add additional harnesses as needed in the future.
- Cost-control – Pricing stability by minimizing the variable cost of termination, troubleshooting and rework.
- Security – Reduces installation time required in a live data center environment.

Servers

For large-scale server deployments, a server harness can provide a simple, clutter-free and quick installation. Ideal for data center deployment with CommScope Server Cabinets.

Switches

Switch assemblies are used in applications where you wish to connect network switch ports to network connectors to aid in cable management and to increase flexibility of cross connect fields. CommScope's SwitchPack connectivity makes these harnesses ideal for data centers and telecommunication rooms with high-density switch chassis.

Intra-Cabinet

Assemblies designed to connect electronic equipment within a single cabinet are designed to optimize cable management in this sensitive, active environment. Ideal for server-to-server and server-to-switch deployments.

Infrastructure

Assemblies designed to serve horizontal and vertical deployments typically feature modular connectors on each end. Ideal for small to large data centers, telecommunication rooms, zone wiring environments, and IBIS building applications.



Harness Design

- 4-pair Category 5E/6/6A cables from 1 to 24 count
- Patch panel (6-port) modules (1100 and PATCHMAX Series), outlets, modular plugs, SwitchPack or blunt endpoints
- Variety of bundling methodologies available including Expando, velcro, and cable tie options
- Left, right, or trident staggers are designed for optimum cable management
- Various breakout lengths from bundling exit
- Unique, customizable leg label identifiers

Testing

- 100% performance tested to SYSTIMAX standards
- Test reports available upon request

Performance

- SYSTIMAX GigaSPEED® XL Solution is guaranteed to meet or exceed Category 6/Class E Channel Specs to 250 MHz
- SYSTIMAX GigaSPEED® X10D Solution is guaranteed to meet or exceed Category 6A/Class E_A Channel Specs to 500 MHz

Packaging

- Copper harnesses are coiled into boxes for pulling from the equipment to the patching field or the patching field to the equipment
- Package labeling identifies installation
- Pulling eyes available

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Copper

Link Count
- **4** 04
- **6** 06
- **8** 08
- **12** 12
- **16** 16
- **18** 18
- **24** 24

Performance
- **A** Cat 5e
- **B** Cat 6
- **C** Cat 6A

Material Rating
- **1** PVC
- **2** Plenum
- **3** LSZH

Bundling
- **A** Expando
- **B** Velcro

Connector
- **A** Outlet
- **B** Plug
- **D** PatchMAX Module
- **E** 1100 Module
- **F** 360 PatchMAX Module
- **G** 360 1100 Module

Dual Row
- **K** SwitchPack II 12
- **P** SwitchPack 16
- **Q** SwitchPack 12
- **R** SwitchPack 8

Single Row
- **S** SwitchPack 8
- **T** SwitchPack 6
- **U** SwitchPack 4
- **V** PatchPack
- **X** Blunt

Exit Orientation
- **0** No Stagger
- **1** Left
- **2** Right
- **3** Trident
- **4** Left Pair
- **5** Right Pair
- **6** Trident Pair

Lowest Leg Number
- **A** 01
- **B** 05
- **C** 07
- **D** 09
- **E** 13
- **F** 17
- **G** 19
- **H** 25
- **O** 29
- **L** 31
- **I** 33
- **J** 37
- **K** 41
- **M** 43
- **N** 45
- **P** 49
- **Q** 55
- **R** 61
- **S** 67
- **T** 73
- **X** Custom

Connector
- **A** Outlet
- **B** Plug
- **D** PatchMAX Module
- **E** 1100 Module
- **F** 360 PatchMAX Module
- **G** 360 1100 Module

Dual Row
- **K** SwitchPack II 12
- **P** SwitchPack 16
- **Q** SwitchPack 12
- **R** SwitchPack 8

Single Row
- **S** SwitchPack 8
- **T** SwitchPack 6
- **U** SwitchPack 4
- **V** PatchPack
- **X** Blunt

Exit Orientation
- **0** No Stagger
- **1** Left
- **2** Right
- **3** Trident
- **4** Left Pair
- **5** Right Pair
- **6** Trident Pair

Lowest Leg Number
- **A** 01
- **B** 05
- **C** 07
- **D** 09
- **E** 13
- **F** 17
- **G** 19
- **H** 25
- **O** 29
- **L** 31
- **I** 33
- **J** 37
- **K** 41
- **M** 43
- **N** 45
- **P** 49
- **Q** 55
- **R** 61
- **S** 67
- **T** 73
- **X** Custom

CommScope® Engineering Use Only
CommScope® Assigned

Length
Feet

End **A** Connectivity Device:_____

End **B** Connectivity Device:_____

Example Images Key:

Connector:

A Outlet



B Plug



E 1100 Module



G 360 1100 Module



K SwitchPack II 12



Q SwitchPack 12



V PatchPack*



X Blunt



Exit Orientation:

0 No Stagger



1 Left



2 Right



3 Trident



4 Left Pair



5 Right Pair



6 Trident Pair



Bundling:

A Expando



B Velcro



Example Connecting Devices:

360 1100 GS3 Panel



360 Modular Panel



360 PatchMAX 1100 Panel

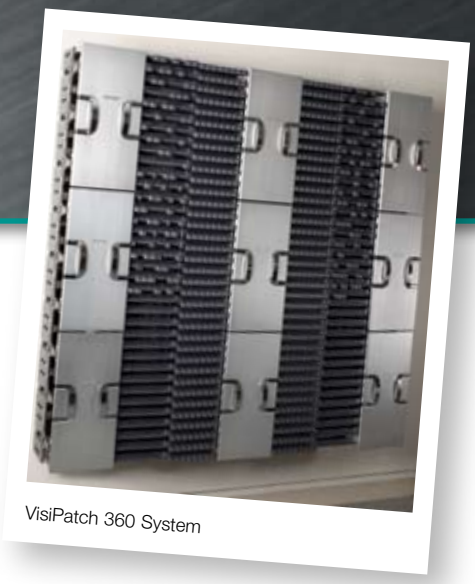


M2100 Modular Panel



Compatible with SYSTIMAX 1100 and PatchMAX style panels only

VisiPatch® 360 System


VisiPatch 360 System

The SYSTIMAX VisiPatch 360 System is a generation of patching systems that seamlessly incorporates patching and integrated cable management to deliver an ergonomically designed and aesthetically pleasing solution that saves time, space and money.

The VisiPatch 360 System utilizes a unique reverse patching technology that allows the patch cord to be projected away from the user and into the patching field. This design improves cord management by reducing the "spaghetti" cord clutter associated with poorly installed RJ-45 systems and makes reading the labeling information easy, facilitating future moves, adds and changes.

Both port density and usable density are increased in the VisiPatch 360 System. Because of cable and patch cord congestion in traditional RJ-45 systems, the usable density is lower than the port density. The VisiPatch 360 System, however, is designed to maximize usable density by minimizing cable and cord congestion.

The VisiPatch 360 System is available for wall-mount as well as rack-mount and cabinet installations. Plus, its modular design means that it is available for small and large installation needs.

Features and Benefits:

- Best-in-class transmission performance
- Supports 10 Gbps and 1 Gbps Ethernet applications
- Compact ergonomic components
- Modular, scalable and flexible
- Increased port density and usable density
- Easy access to patch plug
- Snap-together components
- Unique reverse patching technology
- Clear and simple port labeling
- Sleek and elegant design
- Integrated horizontal and vertical cable and patch cord management

Physical Specifications:

Patch Panel Kits:	Height:	Width:	Depth:
4U (32-ports)	7.1 in (18.03 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)
12U (96-ports)	21.2 in (53.84 cm)	8.5 in (21.59 cm)	11.3 in (28.7 cm)

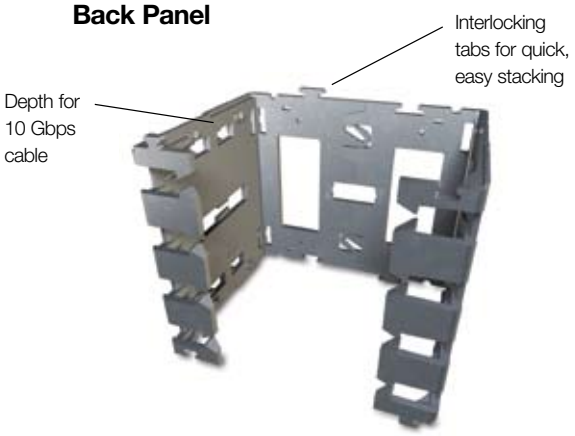
Cable Manager Kits - Vertical:	Height:	Width:
12U 21.0 in (53.34 cm)	10.0 in (25.40 cm)	11.8 in (29.97 cm)

Electrical Specifications:

Insulation Resistance: >1000 MΩ min.
Current Rating: 2.0 A @ 20°C (68°F)
TIA Category: 6A
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
Fault Current Test: 7 A for a minimum of 5 seconds
UL, cUL, CE, Austel: Listed

VisiPatch® 360 System Overview

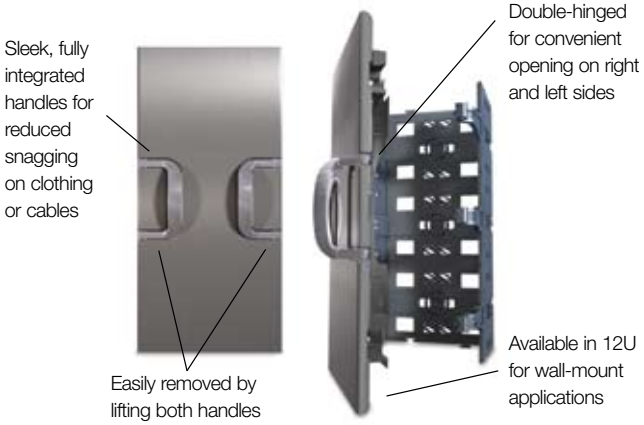
Back Panel



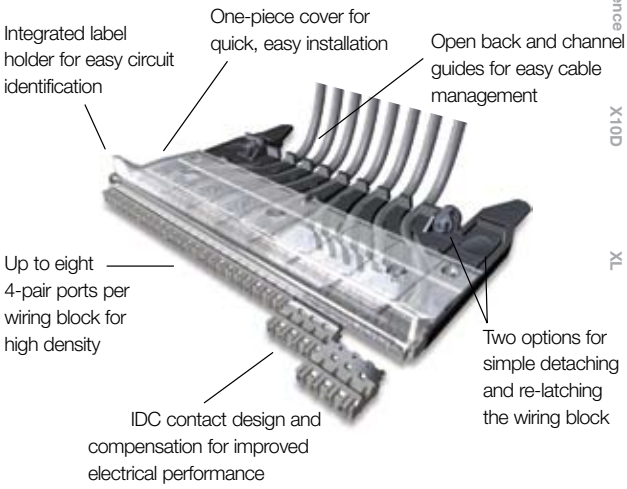
Patch Cord



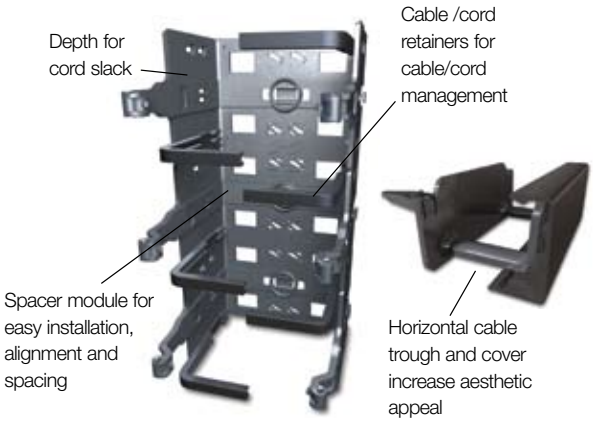
Vertical Trough Cover



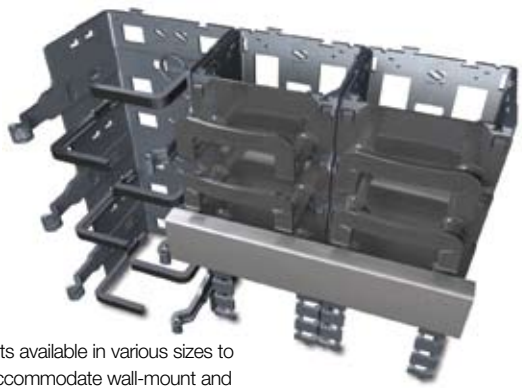
Wiring Block/Connecting Block



Vertical Cable Management

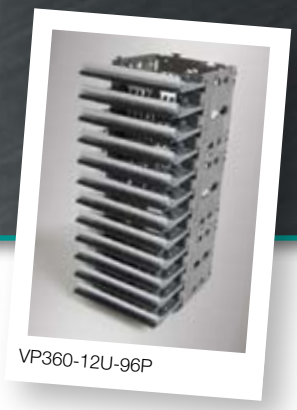


Horizontal Cable Management



Kits available in various sizes to accommodate wall-mount and rack-mount applications


VP360-12U-10VTCM


VP360-12U-96P

Patch Panel Kits

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-4U-32P	VisiPatch 360 4U (32-Ports) Kit			760049445
		VisiPatch 360 Back Panel 4U	1	
		VisiPatch 360 Wiring Block	4	
		VisiPatch 360 Wiring Block Cover	4	
		VisiPatch 360 Connecting Block	32	
		Label Holder	4	
		White Label	12	
VP360-12U-96P	VisiPatch 360 12U (96-Ports) Kit			760049452
		VisiPatch 360 Back Panel 12U	1	
		VisiPatch 360 Wiring Block	12	
		VisiPatch 360 Wiring Block Cover	12	
		VisiPatch 360 Connecting Block	96	
		Label Holder	12	
		White Label	12	
VP360-19PNL-KT	VisiPatch 360 19 inch 1U Kit			760074278
		VisiPatch 360 1U Panel	1	
		Wiring Block	2	
		Wiring Block Cover	2	
		VisiPatch 360 Connecting Block	16	
		Label Holder	2	
		Label Sheet	1	
		Screw, #12-24 x .50”	4	
		Instruction Sheet	1	

Cable Manager Kits - Vertical

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-12U-10VTCM	VisiPatch 360 12U Vertical Trough Cable Mgr Kit e/w Door, 10” wide			760060285
		VisiPatch 360 12U VTCM Door, 10”	1	
		4U Spacer Module	3	
		4U Spacer Module Extender	3	
		Macro Cable/Cord Retainer	3	

Cable Manager Kits - Horizontal

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-HCM-Kit-19Rack	VisiPatch 360 Horizontal Rack Mount Cable Mgr Kit, 19” wide			760068106
		Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 19”	2	
VP360-HCM-Kit-19	VisiPatch 360 Horizontal Cable Mgr Kit, 19” wide			760060343
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 19”	2	

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-HCM-Kit-27	VisiPatch 360 Horizontal Cable Mgr Kit, 27" wide			760060301
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 27"	2	
VP360-HCM-Kit-29	VisiPatch 360 Horizontal Cable Mgr Kit, 29" wide			760060863
		4U Back Panel Base	1	
		Horizontal CM Trough	2	
		Horizontal Trough Cover, 29"	2	
VP360-HCM-Kit-37	VisiPatch 360 Horizontal Cable Mgr Kit, 37" wide			760060871
		4U Back Panel Base	2	
		Horizontal CM Trough	4	
		Horizontal Trough Cover, 37"	2	

Accessories

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-12U-Door-10	VisiPatch 360 12U Door, 10" wide			760060269
VP360-CB-10	VisiPatch 360 Connecting Block, 10/pk			760060277
		VisiPatch 360 Connecting Block	10	
VP360-4U-BPK	VisiPatch 360 4U Back Panel Kit			760060251
		VisiPatch 360 Back Panel 4U	2	
		Metal Clip	12	
VP360-SIDEPNL	VisiPatch 360 Side Panel Kit			760080630
		Side Panel	3	
		Instruction Sheet	1	
VP360-32PR-WB	VisiPatch 360 Wiring Block Kit			760074286
		Wiring Block	2	
		Index Strip	2	
		Wiring Block Cover	2	
		VisiPatch 360 Connecting Block	16	
		Label Holder	2	
		Label Sheet	1	
		Screw, #12-24 x 0.50"	4	
		Instruction Sheet	1	
VP-Voice-Kit	VP Voice Kit for 25 Pair Cable (C4)			760076943
		Wiring Block Assembly, Cool Gray	2	
		Designation Cover	2	
		C-4 Connecting Block Cool Gray	14	
		Label Holder	4	
		Label Sheet	1	
VP360-19PNL	VisiPatch 360 19" 1U Mounting Panel			760074294
		VisiPatch 360 1U Panel	1	
		Screw, #12-24 x 0.50"	4	
VP360-RMBKT	VisiPatch 360 19" Rack Mounting Bracket			760060327
		19" Rack Mounting Bracket	1	
VP360-CBF-SK	VisiPatch 360 Cable Bundle Fastener Kit, Small			760060335
		Micro Cable/Cord Retainer	4	
VP-Label	VisiPatch 360 4 Pair Cord Label		5 (260 labels/sheet)	760072488

Product Number	Detailed Description	Qty	Material ID
110YG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Yellow	96	108528407
110WG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - White	96	108528415
110SG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Slate	96	108528423
110RG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Red	96	108528431
110PG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Purple	96	108528449
110GG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Green	96	108528456
110CG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Orange	96	108528597
110BG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Blue	96	108528464
110KG3-2688L	VisiPatch/VisiPatch 360 Wiring Block Label - Brown	96	108528472
VP360-8FILLERPLUG-KIT	VisiPatch 360 Filler Plug Kit (8 Filler Plugs)	8	760130104

Tool Kits

Product Number	Detailed Description	Contents	Qty	Material ID
VP360-788-HEAD	VisiPatch 360 4-pair Head for 788 Tool	4-pair Punch Down Block	1	760060350
VP360-914-BIT	VisiPatch 360 1-pair Tool Bit for D-914 Impact Tool	1-pair Punch Down Bit	1	760060368

SYSTIMAX® VisiPatch® 360 GigaSPEED® X10D Patch Cord


SYSTIMAX® VisiPatch® 360 GigaSPEED X10D Patch Cord

SYSTIMAX VisiPatch 360 GigaSPEED X10D Patch Cords use the latest 95B series cordage. The high performance VisiPatch 360 X10D patch cord family maximizes capacity of cable managements and troughs by reducing the Diameter over Jacket (DOJ) from 0.310" to 0.285". VisiPatch 360 X10D constructions are available in non-plenum and low smoke zero halogen designs. RJ45 hybrid cords and crossover cords are available as well.


SYSTIMAX® VisiPatch® 360 GigaSPEED X10D LSZH Patch Cord

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A and ANSI/TIA-568-C.3 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D UTP Channel in registered SYSTIMAX installations
- ETL/cETL listed
- Can support network line speeds up to at least 10 gigabits per second
- Certified component of an integrated GigaSPEED X10D Solution
- Qualifies for the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D channel


SYSTIMAX® VisiPatch® 360 to 360GS10E 4-pair Solid Hybrid Patch Cord

SYSTIMAX® VisiPatch® 360 GigaSPEED X10D Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFFX2	VP360T-VP360T-P8X10D	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4 Pair Solid Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFSX2	VP360T-360GS10E	GigaSPEED® X10D VisiPatch® 360 to 360GS10E 4-pair Solid Hybrid Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFFXD	VP360T-VP360T-P8X10D-XD	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4-pair Solid Patch Cord Crossover T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFFZ2	VP360T-VP360T-P8X10D-L	GigaSPEED® X10D VisiPatch® 360 to VisiPatch® 360 4-pair LSZH Solid Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m
CPCFSZ2	VP360T-360GS10E-L	GigaSPEED® X10D VisiPatch® 360 to 360GS10E 4-pair LSZH Patch Cord T	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	7-100 ft / 2-30 m

Ordering Material ID Example: CPCFFX2- 03F 007

SYSTIMAX® VisiPatch® 360 Patch Cords


VisiPatch® 360 1-pair Patch Cord

VisiPatch® 360 System™ GigaSPEED® Xpress™ Patch Cord

CPC Code	Product Number	Detailed Description Options	Jack Color Options	Cord Color	UOM Length	Cable/Cordage Options
CPCFFP2	VP360-VP360-P8XP	VisiPatch 360-VisiPatch 360 XP 4 Pair Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPCFLP2	VP360-GSXP	VisiPatch 360-GSXP XP 4 Pair Solid Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPCFFQ2	VP360-VP360-P8XP-P	VisiPatch 360-VisiPatch 360 XP 4 Pair Plenum Patch Cord	0	8,Z	F,M	1-100 ft / 1-30 m
CPCFLQ2	VP360-GSXP-P	VisiPatch 360-GSXP XP 4-pair Solid Hybrid Plenum Patch Cord	0	8,Z	F,M	1-100 ft / 1-30 m
CPCFFR2	VP360-VP360-P8XP-L	VisiPatch 360-VisiPatch 360 XP 4 Pair LSZH Patch Cord	0	8	F,M	1-100 ft / 1-30 m
CPCFLR2	VP360-GSXP-L	VisiPatch 360-GSXP XP 4-pair Solid Hybrid LSZH Patch Cord	0	8	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: C P C F F P 2 - 0 3 F 0 0 7

VisiPatch® 360 System™ GigaSPEED® XL Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFF12	VP360-VP360-P8XL	VisiPatch 360-VisiPatch 360 XL 4 Pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCFF1D	VP360-VP360-P8XL-XD	VisiPatch 360-VisiPatch 360 XL 4 Pair Patch Cord Crossover	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCF312	VP360-GS8E	VisiPatch 360-GS8E XL 4 Pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: C P C F F 1 2 - 0 3 F 0 0 7

VisiPatch® 360 System™ 1-Pair Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cable/Cordage Length Options
CPCFF62	VP360-VP360-P2PS	VisiPatch 360-VisiPatch 360 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPCF562	VP360-VP-P2PS	VisiPatch 360-VisiPatch 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: C P C F F 6 2 - 0 3 F 0 0 7

Jack Color Options
- **0** Not Applicable
- **1** Black (BK)
- **2** Blue (BL)
- **3** Gray (GY)
- **4** Green (GR)
- **5** Ivory (IV)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)

Cord Color Options
- **1** Black (BK)
- **2** Light Blue (LB)
- **3** Dark Gray (DG)
- **4** Spring Green (GN)
- **6** Orange (OR)
- **7** Red (RD)
- **8** White (WH)
- **9** Yellow (YL)
- **B** Lilac (LL)
- **C** Slate (SL)
- **K** Pink (PK)
- **L** Purple (PR)
- **M** Green (GR)
- **Z** Blue (BL)

Unit of Measure (UOM)
- **F** Feet
- **M** Meters

VisiPatch® System

The VisiPatch System uses IDC technology for optimum patch cord organization and management. The system provides GigaSPEED XL performance which is a clear advantage in data center applications. The unique "reverse direction" design provides a neat, cordless appearance that dramatically improves patch cord management and "avoids the clutter" that is inherent with other patch cord systems. The modular approach in the design maximizes the overall flexibility of the system. The system is lightweight, stackable and the components snap together for ease of installation.


VisiPatch System


VisiPatch Back Panel


VisiPatch Wiring Block


VisiPatch Designation Strip, Cover Plate and Label Holder

Features and Benefits:

- Proven SYSTIMAX performance
- Supports GigaSPEED XL channels
- 4-pair Patch Cord certified GigaSPEED XL component
- Fast, easy installation with low operating costs
- Innovative reverse patch cord design
- Neat, cordless appearance
  - Seven 4-pair cables per row
  - Up to 252 4-pair cables per vertical
- Unique plastic construction
- Snap-together components
- 28-port (112-pair) and 84-port (336-pair) stackable field terminated kits
- Superior patch cord routing and management
- Higher usable density

Back Panel The back panel is the backbone of the VisiPatch System. This patented wall mounting hardware consists of two identical "L"-shaped halves that snap together to form a strong "U"-shaped panel. The lightweight panel can be easily mounted to support multiple mounting options. The back panel holds 4 or 12 wiring blocks to conform to any size installation.

Wiring Block The wiring block snaps into the back panel and accepts up to seven 4-pair cables (28 conductor pairs). It also accepts 25-pair count cables using 5-pair connecting blocks (25 conductor pairs). The wiring block entrance slot and grooves provide versatile cable management. This support feed system allows up to seven 4-pair cables for each wiring block.

Designation Strip/Cover Plate The cover plate snaps directly on to the wiring block and provides protection for the terminated cables. The two piece, clear plastic design provides easy access to the cables and enables visual verification of cable termination quality without moving any components. The pivoted plastic label holder also serves as a designation strip for circuit identification and facilitates the latching of the patch cord.

EIA Panel Assembly The VisiPatch 19 in EIA 1U Panel Mount solution is designed to support rack-mounted installations of the VisiPatch System. The 1U panel terminates up to 56 cable conductor pairs and provides flexibility to scale applications from small and up to large installations. Using the 1U panel in smaller applications such as in a telecommunications closet provides an economical solution for supporting a variety of circuit type applications such as IP, ISDN, Digital Voice, and Analog/Voice/Fax/Modem. Larger data center applications where more terminations are required provide a neat and flexible alternative to RJ45 patch panels.

The VisiPatch 19 in EIA 1U panel and the 56-pair wiring block assembly kits can be ordered separately or as a complete kit.

Physical Specifications:

Height: 110UB1-112FT: 7.2 in (19.05 cm)
110UB1-336FT: 21.6 in (54.86 cm)
Width: 8.5 in (21.59 cm)
Depth: 7.5 in (19.05 cm)
Pairs per row: 28
Pairs per back panel: 110UB1-112FT: 112
110UB1-336FT: 336
Patch cords per row: 7 (4-pair cords)

Patch Panel Kits

Product Number	Detailed Description	Contents	Qty	Material ID
110UB1-112FT	VisiPatch System, 112-pair			108836792
		100PR Base, Back Panel Half	2	
		110UW-28, Wiring Block	4	
		110UC-28, Designation Cover	4	
		110C4W, Connecting Block	30	
		110UPHLDR, Label Holder	4	
		110WG3-2688L, White Label	12	
		Instruction Sheet	1	
110UB1-336FT	VisiPatch System, 336-pair			108561143
		300PR Base, Back Panel Half	2	
		110UW-28, Wiring Block	12	
		110UC-28, Designation Cover	12	
		110C4W, Connecting Block	84	
		110UPHLDR, Label Holder	12	
		110WG3-2688L, White Label	12	
		Instruction Sheet	1	
VP19PNLKT	VisiPatch 19 in EIA 1U Rack Mount Panel Kit			760047654

Cable Manager Kits

Product Number	Detailed Description	Material ID
110U19M	Rack Mount Bracket	108634429
110UHPT-Universal Trough	Universal Horizontal Trough (1 pair of troughs)	108836834
Trough Kit	Trough, U Channel to mount below VisiPatch components on wall (1 pair of troughs and 1 pair of back panel halves)	700012990

Accessories

Product Number	Detailed Description	Material ID
110U2R	Distribution Ring	108523937
110UTC	Trough Cover	108593203
110UHD-S8	Horizontal Duct	108637737
110UP-WB	Wall Mount Bracket	108688946
110UHS20	Installation Spacer	108637612
110UGND	Ground Bar	108561135
110UHWSD	Spacer Duct	700032766
110YG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Yellow	108528407
110WG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - White	108528415
110SG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Slate	108528423
110RG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Red	108528431
110PG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Purple	108528449
110GG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Green	108528456
110CG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Orange	108528597
110BG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Blue	108528464
110KG3-2688L	VisiPatch/Visipatch 360 Wiring Block Label - Brown	108528472
Mounting Bar	Bar, Mounting 19" Rack for 110 Application	760031948
110FDLH	Label Holder (1pk = 4 strips)	108738113
110C4W	Connecting Block	108538612
VP56PRWBLK	VisiPatch 56 Pair Wiring Block Kit (2x wiring blocks, 2x designation covers, 14x connecting blocks)	760047688
VPPNLKIT-336	Kit includes 4 VisiPatch 336 L-beam Back Panels	760054833
VPPNLKIT-112	Kit includes 4 VisiPatch 112 L-beam Back Panels	760054387
Trough Half Cover	VisiPatch Vertical Trough Half Cover	760054742
M110 Bit	Extended M110 Bit for D-914 Tool	760064568
VP19RKMT	VisiPatch 19" EIA 1U Rack Mount Panel	760046490

VisiPatch® Patch Cords


VisiPatch System

The VisiPatch Patch Cords utilize a patented connector design that allows the cordage to be neatly routed back toward the VisiPatch panel rather than to project forward. The connector snaps on with an audible click and features an anti-snag device, which allows the cord to be easily removed from the panel. The 1-, 2-, and 4-pair patch cords provide complete flexibility for all circuit types to accommodate IP, ISDN, digital voice, analog/voice/fax/modem applications. The 2- and 4-pair cords support GigaSPEED XL performance for higher bandwidth data applications. The 1-pair cord supports voice, fax and modem applications. The 119 cords use the VisiPatch connector design terminated to a GigaSPEED connector.

The VisiPatch 1-pair Field Terminated Plug and Cordage Kits provide an alternative solution to pre-assembled fixed length patch cords for applications such as voice, fax, and modern systems and low speed data where performance is not the key driver. In these applications, there is a need for variable length patch cords, where customers are able to field terminate patch cords to suit the needs of their cross-connect layout. With the 1-pair Field Terminated kit, customers can customize the length of the patch cord and help eliminate clutter and slack that can build up in the vertical cable management areas.

The 1-pair Field Terminated Plug Kit provides piece parts to assemble up to 10 patch cords. Each kit contains detailed instructions to properly assemble the patch cords. The cordage kit contains 100 ft of 1074 series one-pair cordage. The patch cord kit is easy to assemble and no special tools are requited. Minimal experience is required for termination and the average time to assemble one patch cord takes approximately 30 seconds. Refer to instruction sheet included in kit for detailed information.

The 1-pair Patch Plugs are designed to terminate 1074 cordage. Termination of other cordage may not be reliable.

Physical Specifications:

Contact Material: Phosphor Bronze
Contact Plating: Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)
Insertion Life: 200 minimum
Plug Material: Polycarbonate Blend UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)

Electrical Specifications:

TIA Category: 6

Safety Certifications:

ETL/cETL Listed

VisiPatch Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPC5512	VP-P8GS	VisiPatch-VisiPatch 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5312	VP119-P8GS	VisiPatch-GS8E 4-pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5311	VP119-P8GS-A	VisiPatch-GS8E 4-pair Hybrid Patch Cord (A-wired)	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC5482	VP117-P8GS-S	VisiPatch-Single-end 4-pair Solid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPC5552	VP-P4PS	VisiPatch-VisiPatch 2-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5652	VP119-P4PS	VisiPatch-D8PS 2-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5658	VP120-P4PS	VisiPatch-D8PS 2-pair Hybrid Patch Cord (120 version)	0	3	F,M	1-100 ft / 1-30 m
CPC5562	VP-P2PS	VisiPatch-VisiPatch 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5662	VP119-P2PS	VisiPatch-D8PS 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC5862	VP-110-P2PS	VisiPatch-110 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: CPC5512-03F007

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

Product Number	Detailed Description	Material ID
VP1PRFTRM	VisiPatch 1-pair Field Term Cord Plug Kit	760047662
VP1PRCORD 100 ft	VisiPatch 1-pair cordage 100 ft	760047993

CommScope® SFP+ (Small Form Factor Pluggable) High Speed Copper Cable Assembly


SFP+



SFP+ *(Detail)*

The CommScope® SFP+ (Small Form Factor Pluggable) High Speed Copper Cable Assembly is a cost-effective high-performance interconnect solution for switches, servers and routers. It meets the performance requirements of specification SFF-8431 and supports 8G fiber channel and 10G Ethernet applications. It is an ideal solution for connecting a server to top of the rack switches or between adjacent switches. The low power, low latency SFP+ cable assemblies facilitate efficient signal transportation between ports.

Features and Benefits:

- Supports data rate of up to 10Gb/s
- Backward compatible with SFP
- Compliant to SFF-8431and SFF-8432
- 3.3 V I2C EEPROM for system configuration
- Pull-to-release mechanism
- Optimized design for signal integrity
- Cost-effective copper solution
- RoHS compliant

Applications:

- High capacity network server and storage
- High speed I/O fabric switches and routers
- Data center cabling
- Networking equipment connection

Supported Standards:

- 8 GFC, 8.5 Gbps
- 10 GFC, 10.50 Gbps
- 10 GbE, 10.3125 Gbps

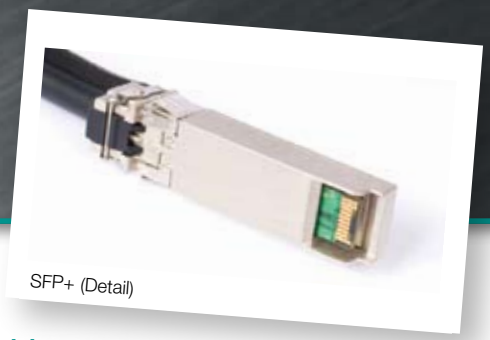
Electrical Performance:

Differential Impedance:
Connector: 100+/- 10 ohm
Bulk Cable: 100+/- 5 ohm
Within-Pair Skew: 10 ps/m (max.)
NEXT: < -30db (to 5GHz)
Cable Assembly Attenuation @ 5GHz:
28 AWG < (2.8 dB/m) x L + 1.0 dB
24 AWG < (2.0 dB/m) x L + 1.0 dB

CommScope CS-SFPPP Copper SFP+ Cable Passive Assembly

- Passive cable assembly supports up to 10 M
- Suitable for short reach application

Detailed Description	Conductor Size	Material ID
CS-SFPPP-28005 SFP+ Cable Assembly 0.5M Passive	28 AWG	760123950
CS-SFPPP-28010 SFP+ Cable Assembly 1M Passive	28 AWG	760123968
CS-SFPPP-28020 SFP+ Cable Assembly 2M Passive	28 AWG	760123976
CS-SFPPP-24030 SFP+ Cable Assembly 3M Passive	24 AWG	760123984
CS-SFPPP-24040 SFP+ Cable Assembly 4M Passive	24 AWG	760123992
CS-SFPPP-24050 SFP+ Cable Assembly 5M Passive	24 AWG	760124008
CS-SFPPP-24060 SFP+ Cable Assembly 6M Passive	24 AWG	760124016
CS-SFPPP-24070 SFP+ Cable Assembly 7M Passive	24 AWG	760124024
CS-SFPPP-24080 SFP+ Cable Assembly 8M Passive	24 AWG	760124032
CS-SFPPP-24090 SFP+ Cable Assembly 9M Passive	24 AWG	760124040
CS-SFPPP-24100 SFP+ Cable Assembly 10M Passive	24 AWG	760124057

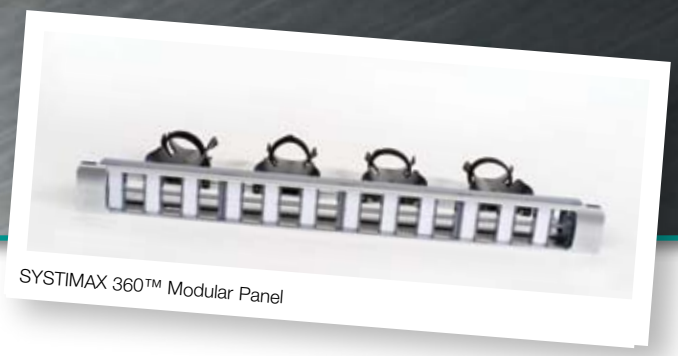

SFP+ (Detail)

CommScope CS-SFPPA Copper SFP+ Cable Active Assembly

- Ultra lower power
- Longer reach through signal conditioning
- Amplitude equalization
- Group delay equalization
- Skew correction
- Crosstalk reduction
- Lowest total system EMI
- Most cost-effective high speed interconnect

Detailed Description	Conductor Size	Material ID
CS-SFPPA-24110 SFP+ Cable Assembly 11M Active	24 AWG	760124065
CS-SFPPA-24120 SFP+ Cable Assembly 12M Active	24 AWG	760124073
CS-SFPPA-24130 SFP+ Cable Assembly 13M Active	24 AWG	760124081
CS-SFPPA-24140 SFP+ Cable Assembly 14M Active	24 AWG	760124099
CS-SFPPA-24150 SFP+ Cable Assembly 15M Active	24 AWG	Factor

SYSTIMAX 360™ Modular Panel


SYSTIMAX 360™ Modular Panel

The 24 port modular panel offers enhanced rear cable management making the cable routing and installation process easier and quicker. The SYSTIMAX 360 modular panel accommodates SYSTIMAX MGS Series information outlets and PowerSUM information outlets. Along with the SYSTIMAX 360 GigaSPEED X10D MGS600 Information Outlets and 360GS10E Patch Cords, the modular panel offers a true end-to-end 10G solution.

Features and Benefits:

- Eliminates the need for separate tie wrap components and offers facilitated installation and panel back dressing through simplified cable bundling
- Supports the deployment of InstaPATCH® Cu pre-terminated copper solutions
- Available in a 24 port (1U) configuration
- Features the elegant SYSTIMAX 360 design
- Operating Temperature: 14ºF to 140ºF (-10ºC to 60ºC)
- Overall Height: 1.75 in. (4.45 cm)
- Overall Width: 19 in. (48.26 cm)
- Depth – includes cable management: 7.2 in. (18.29 cm)

Product Number	Detailed Description	Material ID
360-MOD-1U-24	360 Modular 24 Port Patch Panel	760104273
360-MOD-1U-BEZEL	360 Modular Panel Bezel Kit	760104463
360-MOD-1U-LABEL	360 Modular Panel Label Kit	760104281
360-MOD-1U-LABEL-A4	360 Modular Panel Label Kit A4	760109728

CommScope M4800/M4800A 1U High Density Modular Panel


M4800 1U High Density Modular Panel


M4800A 1U High Density Modular Panel

Unlike traditional 48 port panels, the M4800/4800A panels occupy only 1U of rack space. The M4800-1U-GS panels accommodate GigaSPEED XL and X10D MGS Information Outlets while the M4800-1U-PS panels accommodate PowerSUM Information Outlets.

Primarily configured for modular copper applications, the M4800 allows for accessibility through the front or rear of the panel and its flexible design allows the installer to add outlet ports as needed. The M4800 provides 48 M-Series ports in 1U rack or cabinet space and the M4800 modular panel accepts GigaSPEED, PowerSUM apparatus and mounts in a 19-inch (483 mm) rack with universal hole spacing. The M4800 panel kits include 50 low profile outlet stuffer caps for use with either SYSTIMAX M-Series information outlets. Outlet removal tool is required and must be purchased separately. There is also an optional rack mountable rear cable management system available for consistent cable routing.

Features and Benefits:

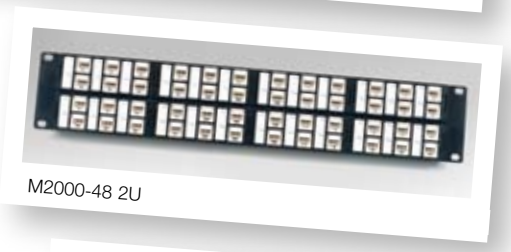
- Available in a 48 port (1U) configuration
- Angled or flat
- Supports both 10G, 1G and 100M applications
- Supports all copper modular connectors
- Panel kits include low profile module stuffer caps
- InstaPATCH® Cu friendly design which coincides with scalability
- Optional rack mountable rear cable management system
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Material ID
M4800-1U-GS	M4800 1U 48-Port Panel - GS	760105429
M4800-1U-PS	M4800 1U 48-Port Panel - PS	760104307
M4800A-1U-GS	M4800A 1U Angled 48-Port Panel - GS	760109744
M4800A-1U-PS	M4800A 1U Angled 48-Port Panel - PS	760109736
MGS-CAP-10	MGS Cap Kit – LP, pack of 10	760105486
MPS-CAP-10	MPS Cap Kit – LP, pack of 10	760105478
MPS-CAP-50	MPS Cap Kit – LP, pack of 50	760105437
360-RCM-RM	Rear Cable Management System (Rack Mountable)	760104737
RMVLTOOL	Outlet Removal Tool Kit (5 pack)	760122713

CommScope M2000 Modular Patch Panel


M2000-24 1U (Front)


M2000-24 1U (Back)


M2000-48 2U


M2000 1U Cord Manager Kit

The M2000 Modular Patch Panel is a panel designed for CommScope outlets that can be configured for copper, fiber, or both and is available in 24-port (M2000-1U) and 48-port (M2000-2U) versions. Both the M2000-1U and M2000-2U panels mount in a 19-inch (483 mm) rack with universal hole spacing.

The M2000-1U and M2000-2U include a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

The M2000-1U and M2000-2U Panels now include M2000 Cable Organizers. The M2000 Cable Organizer is a molded plastic design that is snapped into each 6-port bezel. The 24 port 1U panel includes 4 cable organizers and the 48 port 2U panel includes 8 cable organizers. The 6 4-pair cables from each bezel are routed and positioned to the cable organizer. Cable ties are included to secure the cables.

M2000 Cable Organizers are not included with the M2000 1U and 2U Angled Panels. The M2000 Angled Panels include a cable management bar.

Also available and sold separately are M2000 1U Patch Cord Managers and M2000 2U Patch Cord Managers. These patch cord managers are metal rings that mount to the front of the panel. 5 patch cord managers are used for each 24 port 1U panel. The M2000 1U Patch Cord Manager Kit is a package of 5 patch cord managers.

Features and Benefits:

- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 1180:2001 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D U/UTP Channel in registered SYSTIMAX installations
- Electrical performance guaranteed to meet or exceed ANSI/TIA-568-C.2 Category 6 and ISO/IEC Category 6/Class E specifications when used with MGS400 connectors
- Available in 24-port and 48-port configurations
- Labeling and identification for each port
- Supports copper and fiber connectors

Physical Specifications:

Height: 24-Port: 1.75 in (44.1mm)
48-Port: 3.5 in (88.9 mm)
Width: 19 in (48.3 cm)
Depth: 1.2 in (30.48 mm)

Product Number	Detailed Description	Modules/Ports	Material ID
M2000-24 1U	M2000 24-Port 1U Panel	24 Ports	760049932
M2000-48 2U	M2000 48-Port 2U Panel	48 Ports	760049940
M2000A-24 1U (Angled)	M2000A 24-Port 1U Panel (angled)	24 Ports	760049957
M2000A-48 2U (Angled)	M2000A 48-Port 2U Panel (angled)	48 Ports	760049965
M2000 Cable Mgt Bar	M2000 Cable Management Bar		760054627
M2000 Custom Label Kit	M2000 Panel Custom Label Kit		760060392
M2000 1U Cord Manager Kit	M2000 1U Cord Manager Kit		760069278
M2000 2U Cord Manager Kit	M2000 2U Cord Manager Kit		760073486
Angled Panel Cover	Angled Panel Cover		760091504

CommScope M2100 Modular Patch Panel


M2100 1U 24-Port Panel


M2100 2U 48-Port Panel

The panel is available in a 24-port 1U and 48-port 2U configuration with integrated horizontal front cord managers, eliminating the need for separate cord management. The M2100 includes 4 or 8 plastic rear cable organizers, each holding up to six 4-pair cables. The M2100 also includes vertical mounting labels and label holders providing space for identification of each port. Port designations can be printed on the label sheet. Individual port labels are trimmed from the label sheet, placed in the label area, and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder. This panel supports copper CommScope outlets as well as fiber applications.

Features and Benefits:

- Consists of a rack mountable base unit with front integrated cord management
- Bezel labels with label holders included for standard port numbering
- Mounts to 19-inch (483 mm) equipment rack with universal hole spacing
- Accepts up to 24 or 48 M-Series information outlets and other CommScope outlets for patching and interconnection in the Data Center, telecommunications closet or equipment room
- Supports Category 5e, Category 6 and Category 6A installations
- Labeling and identification provided for each port
- Supports copper and fiber connectors

Product Number	Detailed Description	Modules/Ports	Material ID
M2100-24	M2100-1U Modular Patch Panel	48 Ports	760101220
M2100-48	M2100-2U Modular Patch Panel	48 Ports	760077842

CommScope M2400 Modular Panel


M2400 Modular Panel


M2400 Angled Modular Panel

Features and Benefits:

- Available in a 24 port (1U) configuration with ports in a single row
- Single row angled or flat
- GS version supports MGS400, 500 & 600 copper connectors
- PS version supports UNJ500, 600, M1BH & MPS100 copper connectors
- Panel kits include new low profile module stuffer caps
- InstaPATCH® Cu (GS version) and ReadyPATCH™ Cu (PS version) friendly design which coincides with scalability
- Optional rack mountable rear cable management system
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Modules/Ports	Material ID
M2400-1U-GS	U/UTP Flat Single-Row Modular Panel, (MGS400/500/600)	24 Ports	760118323
M2400A-1U-GS	U/UTP Angled Single-Row Modular Panel, (MGS400/500/600)	24 Ports	760118349
M2400-1U-PS	U/UTP Flat Single-Row Modular Panel, (UNJ500/600, M1BH, MPS100)	24 Ports	760118315
M2400A-1U-PS	U/UTP Angled Single-Row Modular Panel, (UNJ500/600, M1BH, MPS100)	24 Ports	760118331

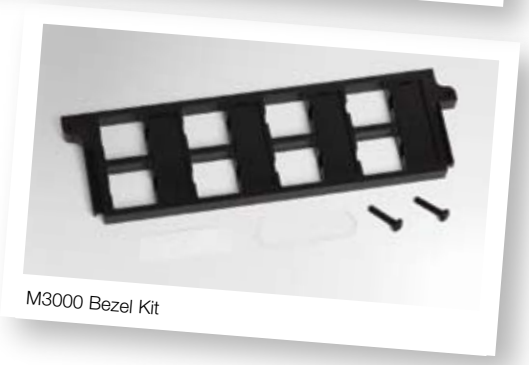
CommScope M3000 Modular Patch Panel


M3000-24

The M3000 Modular Patch Panels are patch panels for CommScope outlets that can be configured for copper, fiber, or both. The M3000 is a 24-port panel and can mount in a 19-inch (483 mm) rack with universal hole spacing.

The M3000 panel incorporates rear cable management for consistent cable routing and management.

The M3000 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.


M3000 Bezel Kit

Physical Specifications:

Height: 1.75 in (44.1 mm)
Width: 19 in (483 mm)
Depth: 3.7 in (93.9 mm)

Product Number	Detailed Description	Modules/Ports	Material ID
M3000-24	M3000 1U 24-Port Panel	24 Ports	760065391
M3000 Bezel Kit	M3000 8-Port Bezel Kit	8 Ports	760065417
M3000	M3000 Custom Label Kit		760060392

CommScope M3200 Modular F/UTP Patch Panel


M3200

The CommScope M3200 Modular Patch Panel is a patch panel for M-Series F/UTP outlets that can be configured for copper, fiber, or both and is available in a 24-port version. The M3200 panel mounts in a 19-inch (483 mm) rack with universal hole spacing.

The M3200 panel incorporates rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield. The M3200 includes a label sheet and clear label holders. A label area is provided to the left of each port. Port designations can be printed on the label sheet, and individual port labels are trimmed from the label sheet and placed in the label area and secured by the clear label holder. If adhesive labeling is desired, adhesive labels can be applied to the label holder.

Features and Benefits:

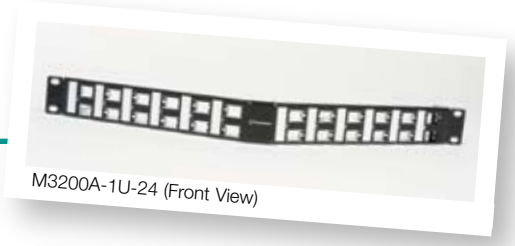
- Electrical performance guaranteed to meet or exceed the channel specifications of Amendment 1 to ISO/IEC 11801:2002 Class E_A, and ANSI/TIA-568-C.2 Category 6A up to 500 MHz when used as part of a GigaSPEED X10D F/UTP Channel in registered SYSTIMAX installations
- Available in 24-port configuration
- Labeling and identification for each port
- Supports copper and fiber connectors
- Qualifies for the CommScope 20-Year Extended Warranty and Applications Assurance when included as part of a registered SYSTIMAX GigaSPEED X10D F/UTP channel

Physical Specifications:

Height: 24-Ports: 1.75 in (4.45 cm)
Width: 19 in (48.20 cm)
Depth: 4.16 in (10.60 cm)

Product Number	Detailed Description	Modules/Ports	Material ID
M3200	M3200 Modular Patch Panel	24 Ports	760058578
M3200 Custom Label Kit	8.5 x 11, 6 Rows of 12 Labels, Supports 6U of Labeling		760060392

CommScope M3200 F/UTP Angled Modular Panel


M3200A-1U-24 (Front View)


M3200A-1U-24 (Rear View)

Primarily configured for F/UTP copper applications, the M3200A allows for accessibility through the front or rear of the panel and its flexible design allows the installer to add outlet ports as needed. The M3200A provides 24 ports in 1U of rack space.

The M3200A modular panel accepts Category 6A, Category 6, and Category 5e apparatus and mounts in a 19-inch (483 mm) rack with universal hole spacing. The M3200A panel incorporates panel mounted rear cable management for consistent cable routing and grounding studs for reliable grounding of the cable shield.

Features and Benefits:

- Available in 24-port configuration
- Labeling and identification for each port
- Includes integrated rear cable management
- Supports CommScope modular F/UTP copper connectors
- Qualifies for the CommScope 20-Year Extended Warranty and Applications Assurance when included as part of a registered F/UTP channel

Product Number	Detailed Description	Modules/Ports	Material ID
M3200A-1U-24	M3200A 24-Port Modular FTP Panel	24 Ports	760106492

CommScope 36 Port Modular Panel


CS-MOD-1U-36P-FLAT


CS-MOD-1U-36P-ANG

Features and Benefits:

- Available in a 36 port (1U) configuration
- Angled and flat options
- Supports SYSTIMAX and Uniprise copper connectors
- InstaPATCH® Cu and ReadyPATCH™ Cu friendly
- Integrated rear cable management
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Ports	Material ID
CS-MOD-1U-36P-FLAT	U/UTP Flat Modular Panel	36 Ports	760118182
CS-MOD-1U-36P-ANG	U/UTP Angled Modular Panel	36 Ports	760118208

CommScope 72 Port Modular Panel


CS-MOD-2U-72P-FLAT


CS-MOD-2U-72P-ANG

Features and Benefits:

- Available in a 72 port (2U) configuration
- Angled and flat options
- Supports SYSTIMAX and Uniprise copper connectors
- InstaPATCH® Cu and ReadyPATCH™ Cu friendly
- Integrated rear cable management
- Offers both front and rear accessibility
- Qualifies for CommScope's 20-Year Extended Warranty and Applications Assurance when included as part of a registered solution

Product Number	Detailed Description	Ports	Material ID
CS-MOD-2U-72P-FLAT	U/UTP Flat Modular Panel	72 Ports	760118190
CS-MOD-2U-72P-ANG	U/UTP Angled Modular Panel	72 Ports	760118216

CommScope FlexiMAX Patch Panel


FlexiMAX Panel

The SYSTIMAX FlexiMAX Panel is an alternative modular panel that allows for patching and interconnection in the telecommunications closet or equipment room. The FlexiMAX 24-port panel can hold up to 24 MGS500, MGS400 or MPS100E modules (not included). The front appearance of the panel comprises two rows of square punchouts, which allow ease of installation and access to the modules.

Physical Specifications:

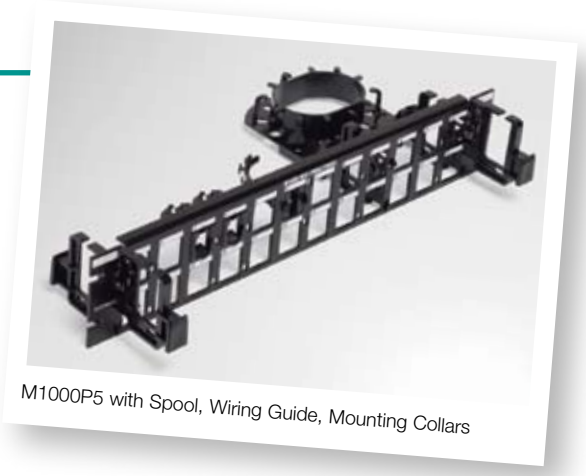
Height: 1.73 in (4.4 cm)
Width: 19 in (48.3 cm)
Depth: 4.17 in (10.6 cm)

Residential Physical Specifications:

Height: Standard 1U
Width: 10 in (25.4 cm)
Depth: 3.14 in (8.0 cm)

Detailed Description	Modules/Ports	Material ID
FlexiMAX Panel	24 Ports	108356312
FlexiMAX Residential Panel (10 inch)	12 Ports	760026799

CommScope MultiMAX Panel


M1000P5 with Spool, Wiring Guide, Mounting Collars

Designed for premises data and voice networks employing copper and/or fiber terminations, the M1000P5 MultiMAX Panel is an aluminum panel that provides for patching or interconnect in the telecommunications closet or equipment room. Mounting options for the 3.5 in (8.9 cm) high M1000P5 panel include a standard EIA 19 in (48.3 cm) rack or a hinged wall mount bracket. Packaged with the panel are mounting collars for up to 24 modular outlets or fiber connections and two wire guides for cord management. For copper terminations, the mounting clips provide a fixture for holding the M-series modular information outlets when terminating conductors and also provide strain relief for the cable when snapped into the panel. Mounting clips also accommodate the M81LC, M81ST and M81SC for fiber terminations.

In addition to the above and ordered separately are the M1000FSSK (Fiber Spool Storage Kit); the M1000FMK (Fiber Mounting Kit) for fiber terminations; and the M1000WG (Wire Guides) for cord management. The M1000FSSK mounts on the rear of the M1000P5, provides fiber storage and manages the slack in the fiber, while maintaining the necessary minimum bending radius.

Physical Specifications:

Height: 3.5 in (8.9 cm)
Width: 19 in (48.3 cm)
Depth: 7 in (17.8 cm)

Catalog Number	Detailed Description	Modules/Ports	Material ID
M1000P5	24-Port Panel w/ 25 Mounting Clips, 4 Screws and 2 Wire Guides	24 Ports	108006198
M1000FSSK	Fiber Storage Spool Kit w/ 6 Single-mode Fiber Guides and 3 Wire Guides		107535080
M1000FMK	Duplex SC Fiber Mounting Kit w/ 1 Collar Lock		107535072
M1000WG	Wire Guide		107382525
M1000PMC-B	Mounting Collars (pack of 25)		108006206

Ruggedized Connectivity Solution for Harsh Environments

The CommScope Ruggedized Connectivity Solution is designed to support applications such as military telecommunications equipment, utility instrumentation panels, pharmaceutical laboratories and equipment, industrial ethernet sensors, and factory floor automation. The CommScope ruggedized product family includes a ruggedized connector housing for Category 5e and Category 6, the respective configurable patch cords, protective caps and faceplates.


Ruggedized Connectivity Solution

The CommScope ruggedized connectors meet IP65 and IP67 environmental testing for use in industrial applications, where potential exposure to liquid and dust is expected. The connector consists of a jack assembly and a plug assembly that form an IP65 and IP67 rated seal. The jack assembly accepts standard CommScope Category 6 and Category 5e CommScope outlets and mounts in a corrosion resistant faceplate that can be mounted to a standard single or double wall outlet box. The plug assembly is pre-assembled to a GS8E patch cord. The plug assembly also provides an IP67 rated seal with the cord, as well as strain, flex and impact relief.


IR24SP


IR22SP

Features and Benefits:

- Audible, tactile and visual confirmation of engagement
- Avoids accidental disconnects
- Resistant to water and dust exposure and humidity
- Mechanical cable strain, flex and impact relief
- Robust keying of jack housing to faceplate


IR11SP


IR12SP

Physical Specifications:

Faceplate Width: 2.75 in (single gang) (7 cm)
4.56 in (double gang) (11.6 cm)
Faceplate Height: 4.5 in (11.4 cm)
Size of Opening to Accept Receptacle: approx 1.1 in (2.8 cm)
Plug Diameter: 1.15 in (2.9 cm)
Material: High impact plastic
Temperature: -13°F to 185°F (-25°C to 85°C)

Electrical Specifications:

Standards: IP65 and IP67
UL and cUL Listed


MIB-2 Port Industrial Box


MIR-RJ45

Ruggedized Connectivity Solutions

Product Number	Detailed Description	Material ID
MIR-RJ45	M-Series Ruggedized Receptacle	760042960
MIB-2 Port Industrial Box	M-Series Industrial Box	760080820
MIR-CAP	Ruggedized Receptacle - Cap	760042978
IR11SP	Faceplate—Single Gang—1-Port—Stainless Plate	760042994
IR12SP	Faceplate—Single Gang—2-Port—Stainless Plate	760043000
IR22SP	Faceplate—Double Gang—2-Port—Stainless Plate	760043026
IR24SP	Faceplate—Double Gang—4-Port—Stainless Plate	760043018

Ruggedized GS8E Modular Patch Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPCCC12	GS8E-IP-C	GS8E Ruggedized Plug, Coiled Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCC312	GS8E-IP-C-GS8E	GS8E Ruggedized Plug, Coiled Strain Relief to GS8E, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCC412	GS8E117-IP-C	GS8E Ruggedized Plug Single-ended, Coiled Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCDD12	GS8E-IP-D	GS8E Ruggedized Plug, Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCD312	GS8E-IP-D-GS8E	GS8E Ruggedized Plug, Domed Strain Relief to GS8E, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCD412	GS8E117-IP-D	GS8E Ruggedized Plug Single-ended, Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPCCD12	GS8E-IP-C-D	GS8E Ruggedized Plug, Coiled-Domed Strain Relief, Modular Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: C P C C C 1 2 - 0 3 F 0 0 7

Jack Color Options
0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options
1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)
F Feet
M Meters



CPCDD12 (GS8E-IP-D) GS8E Domed Strain Relief



CPCCC12 (GS8E-IP-C) GS8E Coiled Strain Relief

Category 3 50-Port High Density Voice Panel


Category 3 50-Port Panel

The SYSTIMAX Category 3 50-Port High Density Voice Patch Panel is designed to provide a cost effective and simple way to feed PBX or other simple voice circuits into a structured cabling system.

The High Density Voice Patch Panel provides 50 voice ports in a compact 1U high format. Each port is clearly identified front and rear and is capable of carrying up to three voice pairs. Functional earth facilities where required (e.g. Earth Loop Recall) can be simply catered to by commoning any single pair across the panel. Each panel is supplied with a fixing and earthing kit.

Features and Benefits:

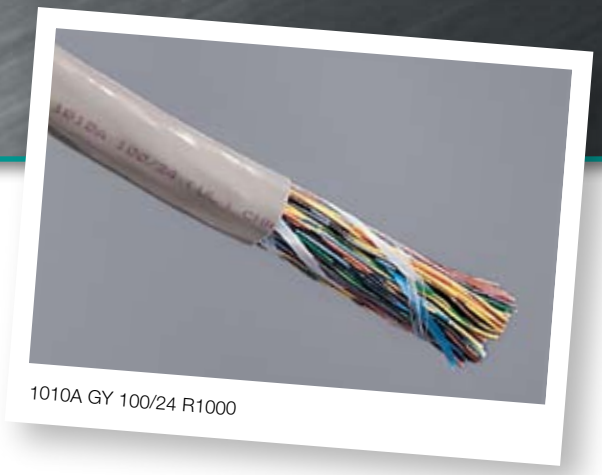
- Standard 19" rack mount 1U high
- Black semi-gloss
- 110 type wire termination
- Quick fit cable tie fixing points
- RJ45 sockets are 8 position, 8 contact socket with gold plated contacts
- Standard 19" fixings and earthing kit accessories supplied
- Numbered individual ports

Physical Specifications:

Height: 1.75 in (4.45 cm)
Width: 19 in (48.2 cm)
Depth: 5.5 in (6.8 cm)

Detailed Description	Material ID
50-port high density voice panel	760060905

CommScope Category 3, U/UTP Cable


1010A GY 100/24 R1000

CommScope Category 3 Cable is used in CommScope voice and low speed data applications. Consists of 24 AWG solid copper conductors insulated with color coded PVC. ETL compliant.

Non Plenum 1010

Physical Specifications:

Weight: 4-Pair: 18.2 lbs/kf (27.2 kg/km)
25-Pair: 95.8 lbs/kf (142.7 kg/km)
50-Pair: 189.9 lbs/kf (283.0 kg/km)
100-Pair: 361.8 lbs/kf (539.1 kg/km)

Outside Diameter: 4-Pair: 0.17 in (4.6 mm)
25-Pair: 0.40 in (10.2 mm)
50-Pair: 0.54 in (13.7 mm)
100-Pair: 0.73 in (18.5 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
1010A WH 4/24 W1000	4	White	1,000 ft (305 m)	Box	108689134
1010A BL 4/24 W1000	4	Blue	1,000 ft (305 m)	Box	760133835
1010A GY 4/24 W1000	4	Gray	1,000 ft (305 m)	Box	106062524
1010A GY 25/24 R1000	25	Gray	1,000 ft (305 m)	Reel	106824329
1010A GY 25/24 R5000	25	Gray	5,000 ft (1,524 m)	Reel	760090779
1010A GY 50/24 R1000	50	Gray	1,000 ft (305 m)	Reel	106824378
1010A GY 50/24 R5000	50	Gray	5,000 ft (1,524 m)	Reel	760090795
1010A GY 100/24 R1000	100	Gray	1,000 ft (305 m)	Reel	106824469
1010A GY 100/24 R5000	100	Gray	5,000 ft (1,524 m)	Reel	760090787

Plenum 2010

Physical Specifications:

Weight: 4-Pair: 19.3 lbs/1,000 ft (28.8 kg/km)
25-Pair: 95.8 lbs/1,000 ft (143 kg/km)
50-Pair: 210 lbs/1,000 ft (313 kg/km)
100-Pair: 399 lbs/1,000 ft (595 kg/km)

Outside Diameter: 4-Pair: 0.181 in (4.60 mm)
25-Pair: 0.470 in (11.94 mm)
50-Pair: 0.630 in (16.00 mm)
100-Pair: 0.840 in (21.34 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
2010B WH 4/24 W1000	4	White	1,000 ft (305 m)	Box	107078388
2010B BL 4/24 W1000	4	Blue	1,000 ft (305 m)	Box	107078404
2010B GY 4/24 W1000	4	Gray	1,000 ft (305 m)	Box	107256737
2010B WH 25/24 R1000	25	White	1,000 ft (305 m)	Reel	107765992
2010B WH 25/24 R5000	25	White	5,000 ft (1,524 m)	Reel	760077537
2010B WH 50/24 R1000	50	White	1,000 ft (305 m)	Reel	107766040
2010B WH 50/24 R5000	50	White	5,000 ft (1,524 m)	Reel	760077545
2010B WH 100/24 R1000	100	White	1,000 ft (305 m)	Reel	107766057
2010B WH 100/24 R5000	100	White	5,000 ft (1,524 m)	Reel	760077552

Product Number	Pair Count	Color	Length	Package	Material ID
2010 050BWH 50/24 R1000	50	White	1,000 ft (305 m)	Reel	107766040
2010 100BWH 100/24 R1000	100	White	1,000 ft (305 m)	Reel	107766057
2010 025BWH R5000	25	White	5,000 ft (1,525 m)	Reel	760077537
2010 050BWH R5000	50	White	5,000 ft (1,525 m)	Reel	760077545
2010 100BWH R5000	100	White	5,000 ft (1,525 m)	Reel	760077552
2010 004BWH 4/24 W1000	4	White	1,000 ft (305 m)	We-Tote Box	107078388

Low Smoke Zero Halogen 3010

Physical Specifications:

Weight: 25-Pair: 110 lbs/1,000 ft (164 kg/km)
100-Pair: 385 lbs/1,000 ft (574 kg/km)

Outside Diameter: 25-Pair: 0.469 in (11.91 mm)
100-Pair: 0.874 in (22.20 mm)

Gauge: 24 AWG

Product Number	Pair Count	Color	Length	Package	Material ID
3010 025BSL 25/24 R1000	25	Slate	1000 ft.	Reel	760081661
3010 100BSL 100/24 R1000	100	Slate	1000 ft.	Reel	760081687
3010 100BSL 100/24 R5000	100	Slate	5000 ft.	Reel	760081695
3010 025BSL 25/24 R5000	25	Slate	5000 ft.	Reel	760081679
3010 025BSL 25/24 RVAR	25	Slate	Variable	Reel	760010900
3010 100BSL 100/24 RVAR	100	Slate	Variable	Reel	760010918

CommScope Category 3, M1 Information Outlets


M1BH Information Outlets

The M1BH Modular Telecommunications Outlets are designed for voice, low speed networks and Integrated Services Digital Network (ISDN) applications requiring an 8-position/8-conductor outlet. The M1BH outlets are designed to snap into any CommScope modular faceplate, frame or surface-mount box. A special lubrication process provides for a minimum of 750 plug insertions.

The M1BH outlet uses the universal wiring labels which display both T568A and T568B wiring.

The M1AH modular telecommunications outlets are designed for voice and other applications requiring a 6-position/6-conductor USOC wired outlet. The M1AH outlets are designed to snap into any CommScope modular faceplate, frame or surface-mount box.

Physical Specifications:

Dimensions: 0.8 x 0.8 x 1.2 in (2.0 x 2.0 x 3.1 cm) Universal A/B labeling
Plastic Material: High-impact, flame retardant, thermoplastic
Flammability Rating: UL-rated 94 V-0
Operating Temperature: 14°F to 140°F (-10°C to 60°C)
Storage Temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 95% (non-condensing)
Contact Material & Plating: Copper alloy, Plating: Gold over nickel underplate. Insulation displacement connectors accept solid or stranded wire.
Nominal Solid Conductor Diameter: 0.016 in to 0.025 in (0.40 mm to 0.64 mm)
Nominal Stranded Conductor Diameter: 0.020 in to 0.025 in (0.51 mm to 0.64 mm)
Insulation Size: 0.030 in to 0.046 in (0.76 mm to 1.17 mm)
Outlet Wires: Copper alloy, 50 micro-inch (1.27 microns) hard gold plating over 100 micro-inch (2.54 microns) nickel underplate
Plug Retention Force: 30 lbs (133 N) minimum between modular plug and jack
Plug Insertion Life: 750 minimum insertions of an 8-position IEC 60603-7 compliant plug
Plug/Jack Contact Force: 100 grams minimum per contact using FCC approved plug

Electrical Specifications:

TIA/EIA Category: 3
Data Rate: Compatible with 10 Mbps Institute of Electrical and Electronics Engineers Inc. (IEEE) 802.3 10BASE-T applications. Compatible with 16 Mbps IEEE 802.5 token ring applications.
Insulation Resistance: 500 MΩ minimum
Dielectric Withstand Voltage: 1,000 VAC RMS, 60 Hz minimum, contact-to-contact and 1,500 VAC RMS, 60 Hz minimum to exposed conductive surface
Current Rating: 1.5 A at 68°F (20°C)
UL and cUL Listed

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1BH-H-003	Electrical Black	1	T568A/T568B	107321697
M1BH-H-112	Electrical Orange	1	T568A/T568B	107346744
M1BH-H-123	Yellow	1	T568A/T568B	107321705
M1BH-H-226	Green	1	T568A/T568B	107321713
M1BH-H-246	Electrical Ivory	1	T568A/T568B	107321721
M1BH-H-262	Electrical White	1	T568A/T568B	107321739
M1BH-H-270	Electrical Gray	1	T568A/T568B	107321747
M1BH-H-317	Red	1	T568A/T568B	107321754
M1BH-H-318	Blue	1	T568A/T568B	107321762

Miscellaneous Outlets*

Product Number	Color	Qty/Pkg	Wiring	Material ID
M1AH-003 Module	Black	1	6-Pin Jack	107322133
M1AH-112 Module	Orange	1	6-Pin Jack	107322141
M1AH-246 Module	Ivory	1	6-Pin Jack	107322158
M1AH-262 Module	White	1	6-Pin Jack	107322166
M1AH-270 Module	Gray	1	6-Pin Jack	107322174
M1BHU-246 Module	Ivory	1	USOC	107322224
M1BHU-262 Module	White	1	USOC	107322240
M1BHU-112 Module	Orange	1	USOC	107346801
Hand Held Terminating Device	Black	1	N/A	760034215
Single Outlet	Gray	1	8-Pos./8-Cond.	102906062
M11BHA-246 Connr Module	Ivory	25	8-Pos./8-Cond.	107391898

*The outlets listed in this product table are not covered by the SYSTIMAX 20-Year Extended Product Warranty and Applications Assurance.

110 Wiring Blocks


110 Wiring Blocks

The 110 Wiring Block is used to terminate cable pairs and permits a neat, organized arrangement of cables behind the block.

It is a flame retardant molded plastic block with horizontal strips, each of which secures and organizes 25 cable pairs. The index strips are marked with five tip colors to help the installer locate pairs quickly.

The blocks accommodate 22 through 26 AWG conductors and can be mounted directly on wall surfaces without backboards.

There are two types of 110 Wiring Blocks: "A" wiring blocks and "D" wiring blocks. The 110A Wiring Block is equipped with legs to provide space behind the block; also, the space on the sides can be used as a vertical jumper trough. The 110D Wiring Block is built without legs and is used where depth is restrictive. These blocks are used in conjunction with the 110C Connecting Blocks, which are ordered separately.

The 110RA 12/38 Rivet Kits may be used to secure the 110 blocks without legs on to the 110 Patch Panel System backboards.

The 88A2 is a molded plastic clip-on part that attaches to the legs of the 110AW2 wiring block.

Physical Specifications:

Height: 25/50-Pair: 1.75 in (4.45 cm)
100-Pair: 3.59 in (9.12 cm)
300-Pair: 10.79 in (27.41 cm)
Width: "A" block, 10.72 in (27.23 cm); "D" block, 8.5 in (21.6 cm)
Depth: "A" block, 3.25 in (8.25 cm); "D" block, 1.4 in (3.6 cm)
RoHS Compliant: Yes

Electrical Specifications:

UL and cUL Listed

110 Wiring Blocks (Without 110C Connecting Blocks)

Product Number	Pair Count	Block Type	Material ID
110AW2-100	100	A	107059891
110AW2-300	300	A	107059917
110DW1-25	25	D	107256653
110DW1-50	50	D	107256661
110DW2-100	100	D	107059909
110DW2-300	300	D	107059925

110 Field Terminated Blocks (With 110C Connecting Blocks)

Product Number	Pair Count	Wiring Block	Connecting Block	Material ID
110AA2-100FT	100	110AW2-100	20 X 110C-5	107058901
110AB2-100FT	100	110AW2-100	4 X 110C-5, 20 X 110C-4	107058919
110AC2-100FT	100	110AW2-100	4 X 110C-4, 28 X 110C-3	107058927
110AA2-300FT	300	110AW2-300	60 X 110C-5	107058935
110AB2-300FT	300	110AW2-300	12 X 110C-5, 60 X 110C-4	107058943
110AC2-300FT	300	110AW2-300	12 X 110C-4, 84 X 110C-3	107058950
110AA2-600CBM	600	110AA2-600CBM		760014829

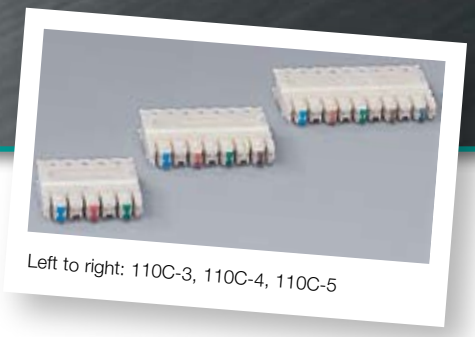
Rivet Kits

Product Number	Quantity	Block Type	Material ID
110RA-12 KIT	12	A	107611626
110RA-38 KIT	38	A	107611634

Retainer

Product Number	Detailed Description	Material ID
88A2	Retainer (Retains cross-connect wires and clips onto 110AW2 blocks)	107267452

110C and 110D Connecting Block



Left to right: 110C-3, 110C-4, 110C-5

The 3-Pair (110C-3), 4-Pair (110C-4) and 5-Pair (110C-5) Connecting Blocks consist of a 1-piece, flame retardant, molded plastic housing containing solder-plated quick clips that cut through the insulation on 22 through 26 AWG conductors as they are seated onto the wiring block.

The front of the connecting block is color-coded, allowing rapid pair identification and termination. The connecting blocks seat on the 110 Wiring Block and provide an electrically gas tight connection between cable conductors terminated on the wiring block and Cross-connect Wire or 110 Patch Cords.

Physical Specifications:

Height: 0.25 in (0.64 cm)
Width: 3-Pair: 0.9 in (2.3 cm)
4-Pair: 1.2 in (3.05 cm)
5-Pair: 1.5 in (3.8 cm)
Depth: 0.93 in (2.36 cm)
RoHS Compliant: Yes

110C - Index Strip Design
110D - Circuit Board Design
K - 1,000 Pieces

Product Number	Detailed Description	Pair Count	Qty/Pkg	Material ID
110C-3	110C-3 CB 10/PKG	3	10	103801239
110C-4	110C-4 CB 10/PKG	4	10	103801247
110C-5	1105-5 CB 10/PKG	5	10	103801254
110C-3K	110C-3K CB 1000/PKG	3	1,000	106698319
110C-4K	110C-4K CB 1000/PKG	4	1,000	106698327
110C-5K	110C-5K CB 1000/PKG	5	1,000	106698335
110D-4	110D-4 CB 1000/PKG	4	1,000	104055850

110 Label and Holder


188UT1-50

The 110 Label assembly consists of a clear label holder (188UT1-50) and colored label inserts (available in green, purple, yellow, blue, gray, brown, white and orange).

The insert labels contain vertical lines spaced on the basis of circuit size (3-, 4-, 5-pair). The transparent label holder snaps onto the wiring block to clearly identify wiring functions, provide circuit information and conceal and protect the cable conductor terminations. The labels will not interfere with placing, tracing or removing jumper wires.

Product Number	Detailed Description	Pair Count	Color	Qty/Pkg	Material ID
188UT1-50	Label Holder		Transparent	6	103895504
110BC2-4500L	3-Pair 110 Label	3	Blue	90	106656192
110GC2-4500L	3-Pair 110 Label	3	Green	90	106656200
110PC2-4500L	3-Pair 110 Label	3	Purple	90	106656234
110SC2-4500L	3-Pair 110 Label	3	Slate	90	106656317
110WC2-4500L	3-Pair 110 Label	3	White	90	106656259
110YC2-4500L	3-Pair 110 Label	3	Yellow	90	106656275
110BB2-4500L	4-Pair 110 Label	4	Blue	90	106657174
110KB2-4500L	4-Pair 110 Label	4	Brown	90	107151227
110GB2-4500L	4-Pair 110 Label	4	Green	90	106657182
110PB2-4500L	4-Pair 110 Label	4	Purple	90	106657190
110SB2-4500L	4-Pair 110 Label	4	Slate	90	106657257
110WB2-4500L	4-Pair 110 Label	4	White	90	106657216
110YB2-4500L	5-Pair 110 Label Strips	5	Yellow	90	106657232
110BA2-4500L	5-Pair 110 Label Strips	5	Blue	90	106657091
110GA2-4500L	5-Pair 110 Label Strips	5	Green	90	106657109
110PA2-4500L	5-Pair 110 Label Strips	5	Purple	90	106657117
110SA2-4500L	5-Pair 110 Label Strips	5	Slate	90	106657166
10WA2-4500L	5-Pair 110 Label Strips	5	White	90	106657133
110YA2-4500L	5-Pair 110 Label Strips	5	Yellow	90	106657158
188BB1-100	Designation Strips		Blue	2	102579810
188BG1-100	Designation Strips		Green	2	103103701

110 Patch Panel System Terminal Block

The 110 Patch Panel System Terminal Blocks are used to terminate connectorized or raw-ended cable pairs.

Connecting blocks in 3-, 4-, or 5-pair sizes may be specified to match the pairs per circuit of the system in use. Transparent label holders allow you to insert circuit identification labels. Field terminated terminal blocks, which allow direct termination of building cables, are also available in 300- and 900-pair sizes.


110PB2-300FT

Physical Specifications:

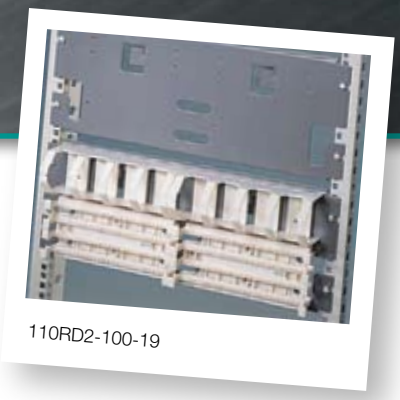
Height: See Product List Table
Width: 8.5 in (21.60 cm)
Depth: 8.05 in (20.45 cm)
RoHS Compliant: Yes

Electrical Specifications:

UL and cUL Listed

Product Number	Height	Termination	Pair	Pair Count	Material ID
110PB2-300FT	24.68 in (62.69 cm)	Field Terminated	4	300	107058810
110PB2-900FT	61.70 in (156.72 cm)	Field Terminated	4	900	107058869
110PA2-300FT	24.68 in (62.69 cm)	Field Terminated	5	300	107058802
110PA2-900FT	61.70 in (156.72 cm)	Field Terminated	5	900	107058851
188D3				300	107151193
188C3				900	107151185

110 Connector System Mounting Bracket


110RD2-100-19

The 110 Mounting Brackets are used for mounting the 110 Connector System hardware on a 19 inch wide frame rack or a data cabinet. On the rear of the brackets are cable support rings to secure cable that is routed through openings in the mounting bracket to the wiring blocks. Cross-connect wire or patch cords are routed from the wiring blocks through the troughs to the side of the frame to facilitate wire mangement. These mounting brackets can be mounted one on top of the other to support pair requirements.

The 110RD2-100-19 Mounting Bracket is designed to mount two 110DW1-25 or 110DW1-50 Wiring Blocks and two 100B3 Troughs on an EIA 310C 19 inch wide frame.

The 110RD2-200-19 Mounting Bracket is designed to mount two 110DW2-100 Wiring Blocks and two 110B3 Troughs on an EIA 310C 19 inch wide frame.

The 110RP2-600-19 Mounting Bracket has a set of three 1 inch bars that attach to the 19 inch frame to support two 110 pre-connectorized patch panels or patch panel and 188 Backboard and connector bracket.

Physical Specifications:

Height: 110RD2-100-19: 5.13 in (13.0 cm)
110RD2-200-19: 7 in (17.78 cm)
110RP2-600-19: 1 in (2.54 cm)
Width: 19 in (48.3 cm)

Product Number	Qty/Pkg	Material ID
110RD2-100-19	1	107535593
110RD2-200-19	1	107535585
110RP2-600-19	3	107098816

110 Patch Panel System Backboard

The 188C3 and 188D3 110 Patch Panel System Backboards are metal panels equipped with distributing rings that provide the vertical paths for running patch cords or jumpers between 110 Patch Panel System Terminal Blocks.



188C3(Black)

Physical Specifications:

Width: 8.5 in (21.60 cm)
Depth: 8 in (20 cm)
RoHS Compliant: Yes

Product Number	Detailed Description	Height	Material ID
188C3	Used with 900-Pair Terminal Blocks	61.8 in (157 cm)	107151185
188D3	Used with 300-Pair Terminal Blocks	24.0 in (61 cm)	107151193

188B Backboard

The 188B1 or 188B2 Backboard is made of metal and has two closed, formed, plastic distribution rings. It is used with 110A Wiring Blocks to arrange jumper wires running between columns of wiring blocks. The backboard is placed between fields, where it serves as a horizontal trough for the wires and provides space to change the direction of jumpers. One backboard is used for each vertical column of 110A Wiring Blocks. The 188B2 Backboard is the same as the 188B1 Backboard except it has legs to allow space for routing the cable behind the backboard.



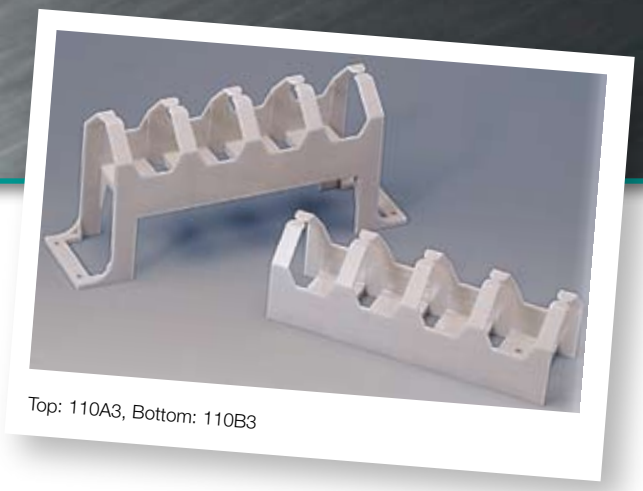
Top: 188B2, Bottom: 188B1

Physical Specifications:

Height: 188B1: 6.50 in (16.50 cm)
188B2: 6.50 in (16.50 cm)
Width: 188B1: 10.72 in (27.23 cm)
188B2: 10.75 in (27.31 cm)
Depth: 188B1: 3.50 in (8.90 cm)
188B2: 4.82 in (11.45 cm)
RoHS Compliant: Yes

Product Number	Detailed Description	Material ID
188B1	Without Legs	102689569
188B2	With Legs	104405113

110 Jumper Trough



Top: 110A3, Bottom: 110B3

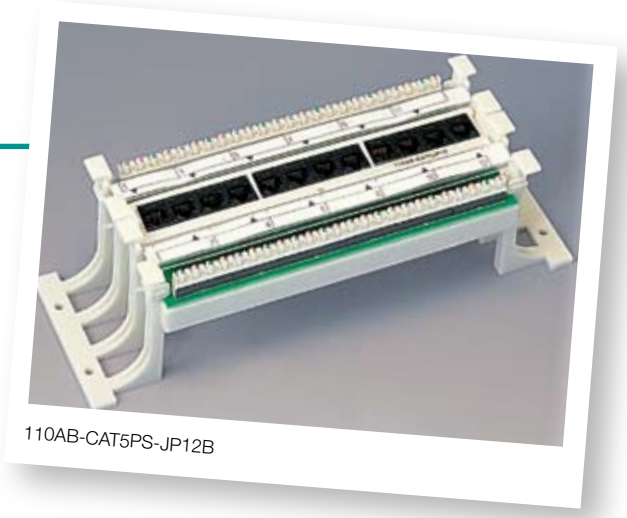
The 110 Jumper Trough is a white, flame retardant, molded, plastic frame that accommodates patch cords or cross-connect wire. It is placed between each 100-pair wiring block and at the top of each column, where it serves as a horizontal trough for routing patch cords and cross-connect wire. The trough is available with legs (110A3 Trough) for use with the 110A Wiring Block or without legs (110B3 Trough) for use with the 110D Wiring Block or Patch Panel Terminal Block. The 110A2 Distribution Ring is used to route cross-connect wire or patch cords alongside the wiring blocks.

Physical Specifications:

Height: 2.64 in (6.7 cm)
Width: 110A3: 10.72 in (27.30 cm)
110B3: 8.44 in (21.60 cm)
110A2: 0.58 in (1.5 cm)
Depth: 110A3: 5.25 in (11.91 cm)
110B3: 3.50 in (6.83 cm)
110A2: 3.25 in (8.26 cm)
RoHS Compliant: Yes

Product Number	Detailed Description	Material ID
110A3	With Legs	107831133
110B3	Without Legs	107831141
110A2	Distribution Ring	107214405

110 Jack Panel System



110AB-CAT5PS-JP12B

The 110 Jack Panel System consists of 8-pin modular jacks, mounted in a metallic holder and wired to a standard 110-Type Wiring Block.

The 110AB-CAT5 and 110PB-CAT5 Modular Jack Panels with T568A and T568B wiring are connecting hardware apparatus products used for the termination and inter-connection of voice and/or data circuits in premises wiring systems. These jack panels consist of a 110 insulation displacement connector (IDC) field and an 8-pin modular jack through the printed wiring board (PWB).

This product is TIA/EIA Category 5 compliant.

Product Number	Detailed Description	Wiring	Material ID
110AB-CAT5PS-JP12B	12 Modular Jacks on a 100-Pair Wiring Block (With Mounting Legs)	T568B	107920704
110AB-CAT5PS-JP12A	12 Modular Jacks on a 100-Pair Wiring Block (With Mounting Legs)	T568A	107920753
110BB-CAT5PS-JP12FTB	12 Modular Jacks on a 110DW2 100-Pair Wiring Block (Without Mounting Legs)	T568B	107920738
110AB-CAT5PS-JP36B	36 Modular Jacks on a 300-Pair Wiring Block (With Mounting Legs)	T568B	107920712
110AB-CAT5PS-JP36A	36 Modular Jacks on a 300-Pair Wiring Block (With Mounting Legs)	T568A	107920761
110PB-CAT5PS-JP108B	108 Modular Jacks on a 900-Pair Patch Panel Terminal Block (Without Mounting Legs)	T568B	107920746

110 Patch Cord and Adapter Cord


110P8GS Patch Cord

The 110 Cord family provides for the administration and interconnection of data and voice circuits. All cords are manufactured with 1074 cordage. The round cordage consists of 24 AWG tinned copper, stranded conductors insulated with high density polyethylene. The insulated conductors are tightly twisted into individual pairs and jacketed with flame retardant PVC.

Physical Specifications:

Plastic Material: Polycarbonate Blend
Flammability Rating: UL-rated 94 V-O
Contact Material: Phosphor Bronze
Contact Plating: Gold 2 to 5 micro-inch (0.051 to 0.128 microns)
Nickel 75 micro-inch (1.91 microns)
Plug Insertion Life: 200 minimum
Operating Temprature: 14°F to 140°F (-10°C to 60°C)
RoHS Compliant: Yes

Safety Certifications:

ETL/cETL Listed

110 Patch Cord and Adapter Cord

CPC Code	Product Number	Detailed Description	Jack Color Options	Cord Color Options	UOM	Cordage Length Options
CPC8812	110P8GS	GigaSPEED® XL110GS to 110GS 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8312	119P8GS	GigaSPEED® XL110GS to GS8E 4-pair Hybrid Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8412	117P8GS	GigaSPEED® XL 110GS Single-ended 4-pair Patch Cord	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8882	110P8GS-S	GigaSPEED® XL110GS to 110GS 4-pair Solid Patch Cord	0	1,2,3,4,6,7,8,9,B,C,Z	F,M	1-100 ft / 1-30 m
CPC8641	119P8PS-A	PowerSUM 110 to D8PS 4-pair Hybrid Patch Cord A-wired	0	1,2,3,4,6,7,8,9,B,Z	F,M	1-100 ft / 1-30 m
CPC8852	110P4PS	110 to 110 2-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8658	120P4PS	110 to D8PS 2-pair Hybrid Patch Cord (120 version)	0	3	F,M	1-100 ft / 1-30 m
CPC8862	110P2PS	110 to 110 1-pair Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8662	119P2PS	110 to D8PS 1-pair Hybrid Patch Cord	0	3	F,M	1-100 ft / 1-30 m
CPC8392	119P8GS-L	GigaSPEED® XL 110GS to GS8E 4-pair LSZH Hybrid Patch Cord	0	8,B,Z	F,M	1-100 ft / 1-30 m

Ordering Material ID Example: C P C 8 8 1 2 - 0 3 F 0 0 7

Jack Color Options

0 Not Applicable
1 Black (BK)
2 Blue (BL)
3 Gray (GY)
4 Green (GR)
5 Ivory (IV)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)

Cord Color Options

1 Black (BK)
2 Light Blue (LB)
3 Dark Gray (DG)
4 Spring Green (GN)
6 Orange (OR)
7 Red (RD)
8 White (WH)
9 Yellow (YL)
B Lilac (LL)
C Slate (SL)
Z Blue (BL)

Unit of Measure (UOM)

F Feet
M Meters

110 Tools

The 788H1 Impact Tool is used for insertion only, or to insert and trim up to five wires at a time on the wiring block and to seat the 110C Connecting Block. The handle is fitted with a rubber grip for better gripping and comfort. The 788M2 aluminum frame replacement head for the tool can be ordered separately.

The 788P Pressing Head Assembly is a plastic stuffer used with the 788H1 Tool Kit.

The 788 Kit and 788P Pressing Head Assembly provide a direct replacement for the 788M1 Tool.

The 788 Kit is a kit of 2 blades and is a direct replacement for the 788 Tool Kit (106 981 848).

The 788K1 Wire Retention Tool is used as an aid in holding down cable onductors when removing 110-Type Connecting Blocks.

The Spudger is a small pencil-shaped plastic tool with a sharp, pointed L-shaped metal pick that is used to lift and remove small pieces of conductor insulation caught in the 110-Type Wiring Block or between the plastic teeth of the 110-Type Connecting Block.



Left to right 788H1 Impact Tool, 788M2 Replacement Head Assembly



KS-22035-L2

Product Number	Detailed Description	Material ID
788H1	788H1 Impact Tool (Handle + Blade), 10 Conductor	108062043
788M2	788M2 Replacement Head for 788H1 Tool	107975864
788 Kit	788 Kit Replacement Blades	407732585
KS-22035-L2	Spudger	405423260
D-914 Kit	Impact Tool (Handle + Blade)	406477794
D-914	D-914 Impact Tool Handle	407484971
M110	M110 Blade, Replacement Blade for D-914	407728427

384A Video Adapter


384A

The 384A Video Adapter is a broadband Community Access Television (CATV) video device that performs common mode filtering, balancing and impedance matching to provide connectivity to SYSTIMAX. It permits connectivity between broadband CATV video distribution equipment.

The 384A is equipped with an F-type male connector plug on one end, and a 12 ft (3.7 m) section of 2-pair cordage with an RJ-45 on the other. The RJ-45 should be connected to the work area information outlet, or the modular RJ-45 jack panel in the telecommunications closet or equipment room. The F-type plug is used to connect to the broadband video distribution equipment.

Physical Specifications:

Length: Housing: 2.3 in (5.8 cm)
Cable: 12 ft (3.7 m)

Electrical Specifications:

Bandwidth: 55 MHz - 550 MHz
Input Impedance (Source): 75 Ohms Unbalanced
Output Impedance (Twisted Pair): 100 Ohms Balanced
Common Mode Rejection: >40 dB
Signal To Noise Ratio: >60 dB

Product Number	Detailed Description	Material ID
384A	Broadband Video Adapter	107213605

385DP CATV Distribution Panel


385DP

The 385DP Broadband CATV Distribution Panel allows analog broadband video distribution over enhanced PowerSUM and GigaSPEED Solutions.

The 19 inch wide rack mountable 385DP Broadband CATV Distribution Panel is a passive self-terminating 1 by 16 coax-to-U/UTP CATV distribution solution that provides connectivity over LAN cables.

The 385DP is equipped with an F-type coaxial input connector (female) and 16 8-pin output modular jacks (female). A single 385DP distributes CATV signals for up to 16 locations.

The 385DP is typically installed in a telecommunications closet or equipment room and transmits CATV signals in the horizontal subsystem to 384A adapters located in the work location.

Electrical Specifications:

Operation Distances: 60 meters - 77 channels for a minimum received signal level of 0 dBmV
100 meters - 28 channels for a minimum received signal level of 0 dBmV
100 meters - 50 channels for a minimum received signal level of -10 dBmV
Bandwidth: 5 MHz - 550 MHz
Emission: Tested to FCC Part 76 and CISPR PUB 22 Class B
Safety: UL, CSA and IEC 950

Product Number	Detailed Description	Material ID
385DP	Broadband CATV Distribution Panel	108120460

Category 6 OSP Protector Units



Cat 6 16V w/POE

SYSTIMAX Category 6 Protector is designed to give protection for data circuits entering a building. This solid state device protects sensitive network equipment from damage caused by transient voltage surges by diverting them to the ground in 2-5 nanoseconds.

Protection is provided for 4-pair LAN applications with 16V clamping voltage or 4-pair analog voice applications with a 235V clamping voltage. Grounding requires a field installed solid copper wire, 10 AWG for Primary and 14 AWG for Isolated Loop. Used with high performance 4-pair Category 6 Outside Plant Cables as well as Category 6 U/UTP cables to create a 100% solid-state protection for fast and reliable response to surge events. It meets the electrical specifications of ANSI/TIA-568-C.2 for Category 6 channel performance.

Physical Specifications:

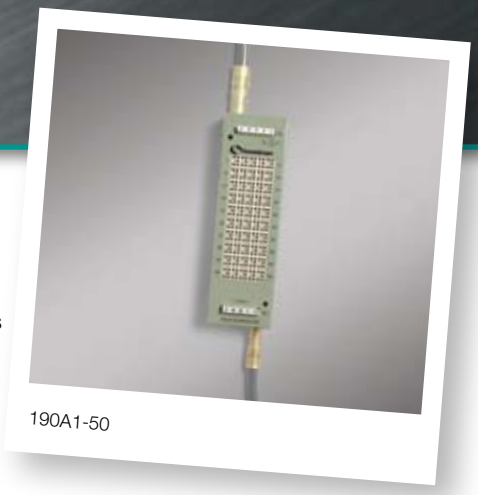
Height: 4.25 in (10.8 cm)
Width: 4.25 in (10.8 cm)
Depth: 1.42 in (3.61 cm)

Electrical Specifications:

Protector Type: 100% Solid State
Clamping Voltage: 16 and 235 VDC
Maximum Response Time: 2-5 nanoseconds
Grounding Requirements: 10 AWG for primary or 14 AWG for isolated Loop Applications
Grounding Connection: Integral shield grounding clip attaches to cable

Product Number	Clamping Voltage	Applications	Material ID
Cat 6 235V	235 Volt	Analog Voice	760031708
Cat 6 16V	16 Volt	Data	760028373
Cat 6 16V w/POE	16 Volt	POE	760033951

Multipair Protector Panel (190 Type)


190A1-50

The 190 Type Multipair Protector Panel provides indoor station protection for exposed lines where the cross-connect field is separated from the protector panels at building entrance terminals. The protector panel consists of a metal housing containing mountings for 3B-, 3C-, 4B-, or 4C-Series Protector Units (sold separately). It also includes a 25 ft (7.62 m), 26 AWG stub cable that serves as a fusible link, a 24 AWG terminating cable and two connectors for external ground connections.

The internal wiring design prevents protector bypass. A cable pass-through feature allows for side-by-side and top-to-bottom installation.

Physical Specifications:

Height: 50-pair: 13 in (33.0 cm)
100-pair: 24 in (61.0 cm)
Width: 4 in (10.2 cm)
Depth: 2.75 in (6.99 cm)

Product Number	Pair Count	Material ID
190A1-50	50	102995073
190A1-100	100	102995099

Station Protector (110ANA Type) with 110 IDC for Both Input and Output



110ANA1-25

The 110ANA1 Multipair Protector Panel provides indoor station protection for small pair count applications using the 3B-, 3C-, 4B-, or 4C-Series Protector Units. The unique internal wiring design prevents protector bypass. Designed with 110-Type connecting blocks for input and output terminations, the 110ANA1 Multipair Protector Panel provides a modular, space efficient package with quiet front and simplified installation directly on the wall.

The individual protector modules should be ordered separately.
The 110ANA1 multipair protector panel is UL listed.

Product Number	Detailed Description	Pair Count	Dimensions	Material ID
110ANA1-06	Station Protector, with 110 terminations, 5-pin protectors not included	6	4.1 in (10.4 cm) W x 3.5 in (8.9 cm) H x 2.6 in (6.6 cm) D	105736482
110ANA1-25	Station Protector, with 110 terminations, 5-pin protectors not included	25	3.9 in (9.9 cm) W x 10 in (25.4 cm) H x 2.6 in (6.6 cm) D	105736490
110-ANA1-050	110 Input/Output Building Entrance Protector	50	13.25 in (33.7 cm) W x 9.25 in (23.5 cm) H x 2.75 in (7.0 cm)	760096476
110-ANA1-100	110 Input/Output Building Entrance Protector	100	21.25 in (54.0 cm) W x 9.25 in (23.5 cm) H x 2.75 in (7.0 cm)	760096487

Building Entrance Terminal (195 Type)


195A1-100-25

The unit is equipped with a metal housing containing a 100-pair protector panel that accepts a wide range of interchangeable plug-in protector units. The input is either a 100 ft (30.48 m), a 50 ft (15.24 m) or 25 ft (7.62 m) long 26-gauge stub cable that serves as a fusible link. The output is a 1 ft (0.30 m) 24-gauge cable with either male or female RJ21 type connectors. The internal wiring design separates the input wires from the output wires, so in the event of a power cross and the input wire fuses open, they will not be connected to the output wires causing a bypass.

The 195A type has a wall mount bracket that acts as both a mounting bracket and a cable guide. The 195B type is a frame mounting version.

Features and Benefits:

- Very high density design saves space
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Two built-in 3-wire ground connectors facilitate termination of a No. 6 ground wire and strapping adjacent units together provides common positive grounding
- The units are available with both male and female output RJ21 connectors
- The input stub cables are 25 ft (7.62 m), 50 ft (15.24 m) or 100 ft (30.48 m) long

Product Number	Pair Count	Input	Output	Material ID
195A1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105404776
195A1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564033
195A1-100-050M	100	50 ft Stub Cable	1 ft Cable with Male RJ21 Connector	105564041
195A1-100-25	100	25 ft Stub Cable	4 Soft Stub Cables	760012344
195A1-100-50	100	50 ft Stub Cable	2 Soft Stub Cables	108386382
195B1-100-25	100	25 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105501050
195B1-100-050	100	50 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564066
195B1-100-100	100	100 ft Stub Cable	1 ft Cable with Female RJ21 Connector	105564082
195A1-100-100/050R	100	100 ft Stub Cable	50 ft Stub Cable (unshielded)	760069955

Building Entrance Terminal (489A Type)


489ACA1-100

Reliable electrical protection is essential for securing sensitive equipment at the building entrance terminal. The lightweight and high density 489A protector provides this protection. Designed for use wherever exposed outside plant (OSP) cables enter the building, the unit provides electrical protection between the cable and sensitive devices.

Features and Benefits:

- The 489 units are lightweight (30 percent lighter than comparable models) with an attractive appearance
- High density design saves wall space (all units, even 200-pair, are only 12 in high by 14 in wide)
- Reliable 110-type IDC output connector for fast, easy connections
- The protector panel terminals are gold plated for superior electrical connections
- Accepts a wide range of interchangeable plug-in protector units
- Hinged, lockable covers provide additional mechanical protection and security
- An optional security kit (108314360) allows a padlock to be mounted on the cover
- A generous splice chamber with removable grommets allows easy OSP cable entry and splicing
- The splice chamber walls are insulated for better fuse coordination
- A velcro strap is used for wire management
- The 489 units are stacked to minimize wall space and simplify installation
- Two built-in 3-wire ground connectors facilitate termination of a number 6 ground wire, and strapping adjacent units together provides common positive grounding
- Additional side exits and common wire guides facilitate dressing and tracing of customer wire
- The units are available in 25, 50 and 100 pair count
- Dimensions are 12 in (30.5 cm) high by 14 in (35.5 cm) wide by 5.5 in (14 cm) thick

Product Number	Pair Count	Input	Material ID
489ACA1-025	25	110 IDC	107894909
489ACA1-050	50	110 IDC	107894917
489ACA1-100	100	110 IDC	107894925
489ACC1-025	25	25 ft Stub Cable	107894941
489ACC1-050	50	25 ft Stub Cable	107894958
489ACC1-100	100	25 ft Stub Cable	107894966
489ACC1-100	100	50 ft Stub Cable	760008557
489ACM1-050	50	3M ms2 connector	107891982
489ACM1-100	100	3M ms2 connector	107894990
489ACMI-200	200	3M ms2 connector	107895005
489ACSI-025	25	710 connector	107895039
489ACSI-050	50	710 connector	107895047
489ACSI-100	100	710 connector	107895070
489ACSI-200	200	710 connector	107895088

Building Entrance Protectors



4B1EW

Building Entrance Protectors protect sensitive equipment and personnel from power surges, AC coupling, AC power cross and lightning strikes. Power surge can travel through buried or exposed OSP cable back to equipment within the premises. Plug in protectors (PIPs) in building entrance protectors (BEPs) act like a circuit breaker.

The 5-pin plug in protection units provide over voltage protection with either a gas discharge tube or a solid state module.

Gas Discharge Tube

- Handles larger surges
- Possesses a higher holding current
- Used when high surge currents are common
- Used in extreme environments
- DSL friendly
- Used in low pair count applications

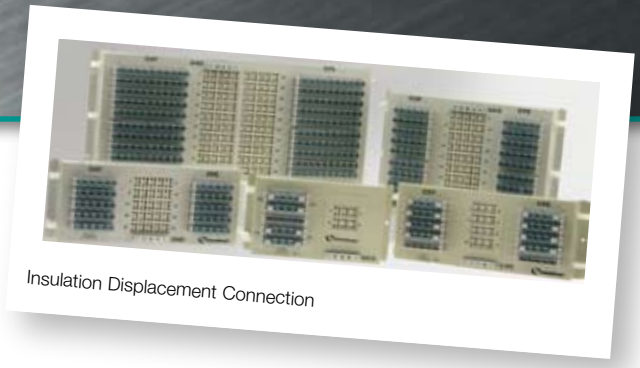
Solid State Module

- Tight breakdown voltage which provides a higher level of protection
- Longer life threshold (if surges are lower than rating)
- Fast response

Product Number	PIP Type	Breakdown	Over Current @ 25c	Circuit Application	Color	Material ID
3B1EW	GDT	265 – 465 V	N/A	Standard	Black	104410147
4B1EW	GDT w/ HC	265 – 465 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104401856
3C1S	BSS	220 – 300 V	N/A	Standard	Black	105514756
4C1S	BSS w/ HC	220 – 300 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Standard	Black	104386545
4C3S-75	BSS w/ HC	60 – 90 V	<210 sec @ 0.54 A >3 hrs @ 0.35 A	Data Circuits	Red	105581086
3B2EW		265-465 V		Service Denied	Green	104410154
3B3EW		265-465 V		Special	Red	104410162
3C1FS		215-265 V		Standard	Black	107213399
3C3S		220-300 V		Special	Red	105695969
3C3EW		265-465 V		Special	Red	104410196
4C1FS		215-265 V		Standard	Black	105605620
4C1FS-20		215-265 V		Standard	Black	107224347
4C3S		220-300 V		Special	Red	105605596
4C3FS		215-265 V		Special	Red	105605646
4C3FS-20		215-265 V		Special	Red	107224362

Note: GDT – gas discharge tube
HC – heat coils
BSS – balanced solid state

Building Entrance Protectors Tool-less Insulation Displacement Connection (TIDC-LNL1)


Insulation Displacement Connection

The CommScope Tool-less Insulation Displacement Connection (TIDC-LNL1) Building Entrance Protectors (BEP). The TIDC-LNL1 BEP provides indoor protection using UL® listed gas tube, hybrid, or solid state 5-pin series protector units. CommScope offers five BEP models for 6, 12, 25, 50, and 100 pair protection. The TIDC block provides a low profile, robust, termination field. Simply lift the toggle open, insert the wire and press closed to make the connection on the top side (no tools required). The high density connector has color marked holes (tip/ring) for easy installation of wires.

An internal fuse link is provided to prevent protector bypass. Input and Output terminations using recommended 22 or 24 gauge conductors are easily accomplished utilizing the CommScope Tool-less Insulation Displacement Connection block.

Features and Benefits

- UL® listed gas tube, hybrid, solid state 5-pin series protector units
- No tools are required for Input/Output terminations
- Lightweight, space efficient design, allows for quick and simple mounting directly on the wall
- Three-position external ground terminal accepts 6 to 14 AWG ground wire
- Strain relief rings are provided on both sides of the BEP to manage Input and Output cables
- Wire retainers are located on both sides of the TIDC blocks with clearly numbered circuit identification

Product Number	Detailed Description	Dimensions	Material ID
TIDC-LNL1-06	TIDC Input/Output Building Entrance Protector, 6 pair	10.00 x 5.25 x 2.75	760093294
TIDC-LNL1-012	TIDC Input/Output Building Entrance Protector, 12 pair	13.25 x 5.25 x 2.75	760093302
TIDC-LNL1-025	TIDC Input/Output Building Entrance Protector, 25 pair	13.25 x 5.25 x 2.75	760091124
TIDC-LNL1-050	TIDC Input/Output Building Entrance Protector, 50 pair	13.25 x 9.25 x 2.75	760093310
TIDC-LNL1-100	TIDC Input/Output Building Entrance Protector, 100 pair	21.25 x 9.25 x 2.75	760093328

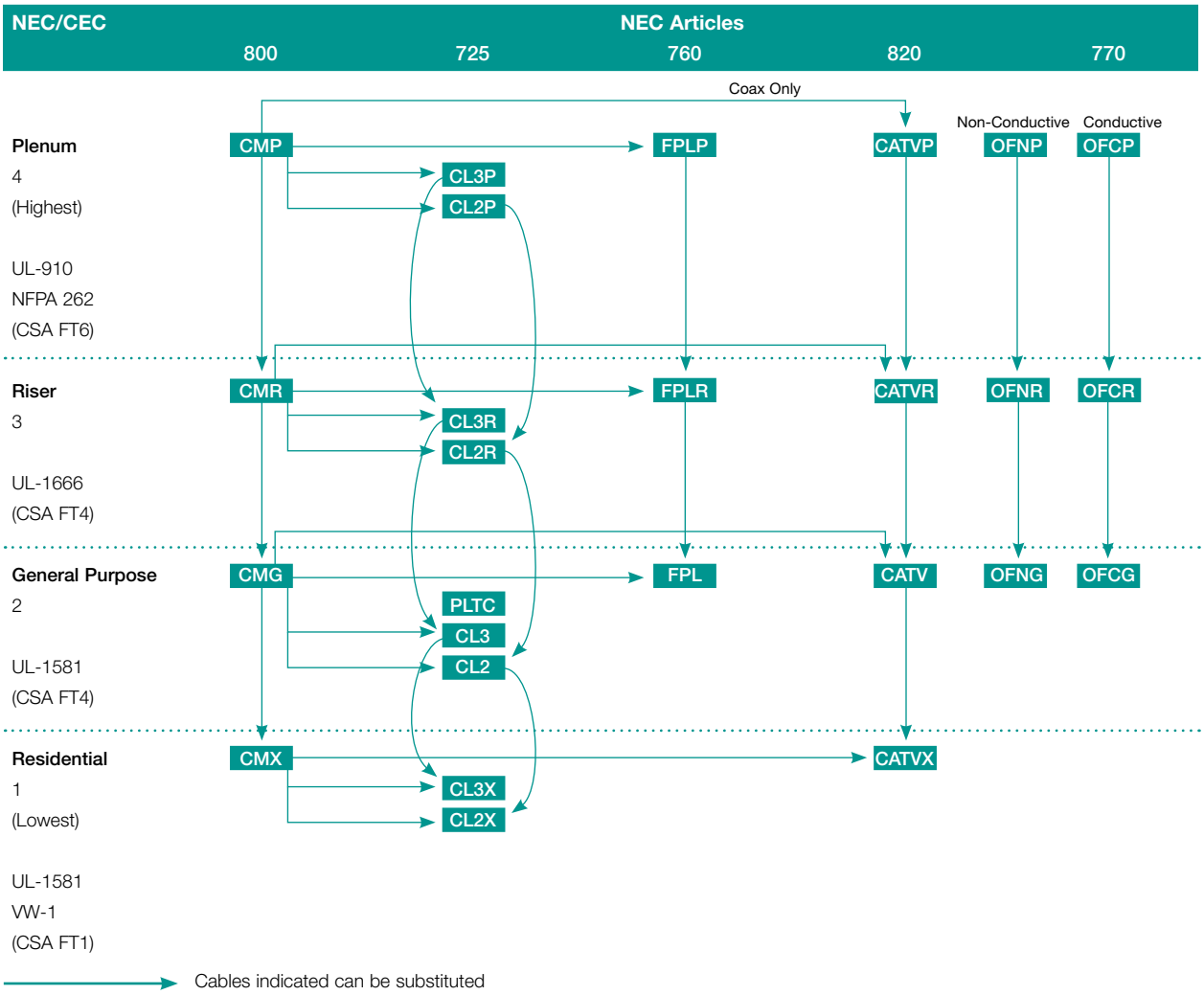
COAX SOLUTIONS

Cable Fire Ratings Matrix 117
Cable Construction. 118
Video Cables 123
Security Cables 128

Cable Fire Ratings Matrix

As well as being manufactured to strict quality and performance standards, CommScope cables are designed to meet or exceed safety standards as set forth in the National Electric Code (NEC) and Canadian Electrical Code (CEC) for their intended applications. Use of special materials, such as our own formulation of CommFlex jacketing materials, helps maintain superior performance and handling characteristics with no loss of safety.

Types: CMP, CMR, CMG, CM, CMX	=	Communication Cables
Types: CL3P, CL3R, CL3, CL3X, CL2P, CL2R, CL2, CL2X	=	Class 2 and Class 3 Remote Control, Signaling, and Power Limited Cables
Types: FPLP, FPLR, FPL	=	Power Limited Fire Alarm Cables
Types: CATVP, CATVR, CATV, CATVX	=	CATV and Radio Distribution Cables
Types: OFNP, OFNR, OFNG, OFN	=	Nonconductive Fiber Optic Cables
Types: OFCP, OFCR, OFCG, OFC	=	Conductive Fiber Optic Cables
Types: PLTC	=	Power Limited Tray Cables



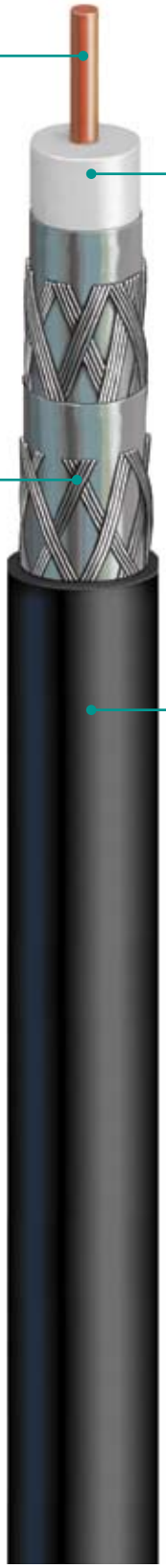
Cable Construction

Center Conductor
Conductors in coaxial cable are either solid or stranded wire. Solid conductors are described by their diameter and material (i.e. 18 AWG Solid TC) while stranded conductors include their stranding (i.e. 20 AWG (19x32 AWG) Strand TC).

BC - Bare Copper
TC - Tinned Copper
CCA - Copper Clad Aluminum
CCS - Copper Covered Steel

Shields
Coaxial shields (also called the outer conductor) come in several varieties. Two types of coverage are: Foil, where aluminum is bonded to both sides of a polypropylene or polyester tape to provide 100% coverage and Braid where flexible wire is woven around the dielectric. Braid coverage designation is given as a percentage followed by a two letter code representing the material of the braid (i.e. 96% TC braid would be 96% coverage of a Tin Copper braid).

AIS - Aluminum sheath
AI - Aluminum braid
BC - Bare Copper braid
TC - Tin Copper braid



Dielectric
Most CommScope coaxial cables have foamed (or cellular) dielectrics for better velocity ofpropagation characteristics. Different materials are used to meet electrical and fire-safety performance.

Foam PE - Foamed Polyethylene
Solid PE - Solid Polyethylene
Foam FEP - Foamed Fluorinated Ethylene Propylene (generic or Teflon® brand)
Solid FEP - Solid Fluorinated Ethylene Propylene
AD/PE - Air Dielectric created with a Polyethylene filament
FRPE - Flame-Retardant Polyethylene

Jackets
Jacket material may vary depending on application. Plenum-rated cables provide superior fire safety, while flame-retardant PVC are used in riser, general purpose and residential situations. Outdoor cables (especially those meant for burial) are usually sheathed in polyethylene.

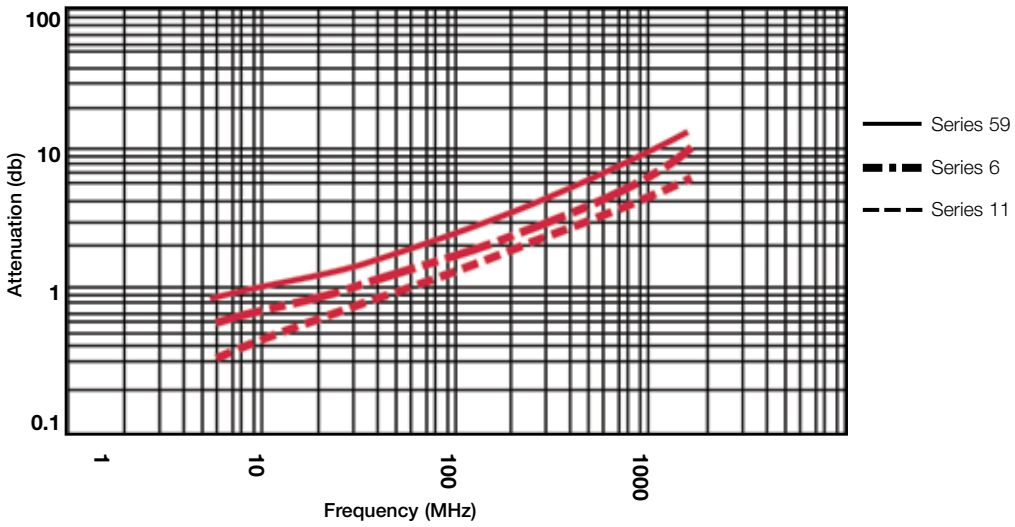
K - KynarTM Polyvinylidene Fluoride (PVDF - used in plenum cables)
V - CommFlex, our proprietary jacketing compound (used in plenum cables)
PE - Polyethylene (Outdoor Applications)
PVC - Polyvinylchloride

Teflon is a registered trademark of E.I. Dupont de Nemours and Co.

Attenuation

Attenuation is the loss of electrical power as a signal travels along a cable. There are two types of losses that affect the attenuation of a cable: loss due to conductivity of conductors (center conductor and shield) and dielectric loss. Both losses increase with frequency.

Relative Attenuation for Series 59, 6, 11 non-plenum cables



Capacitance

Capacitance is the measurement of energy absorbed by the cable. It is caused by the difference in electrical potential of the conductors and is measured in picofarads per foot (Pf/ft). Like impedance, it is related to the inner and outer conductor sizes and the core dielectric constant. In a given cable design, capacitance and impedance are inversely proportional.

Capacitance is determined by the formula where E_r is the dielectric constant of the cable core, D is the dielectric diameter, d is the conductor diameter and a is the conductor stranding factor.

$$\frac{7.354\ E_r}{\log_{10}\frac{D}{ad}}$$

Impedance

Characteristic impedance is a measurement of resistance to the electrical current being carried in a cable. It is measured in units called ohms (Z_O) and is directly related to the ratio between inner conductor dimension and the outer conductor dimension, and inversely related to the dielectric constant of the cable core. Unlike conductor resistance, impedance does not vary with cable length.

For a system to work at maximum efficiency, the nominal impedance of the transmitter, receiver and cable must precisely match. An incorrect match will produce reflection loss.

Nominal impedance is determined by the formula

The factors are the same as they are for capacitance above.

$$Z_O\ (\Omega) = \frac{138.2}{\sqrt{E_r}}\ \log_{10}\frac{D}{ad}$$

Electrical Characteristics

Shield performance

Braid shields are composed of thin strands of tinned or bare copper wires interwoven around the conductors within a cable. In addition to providing excellent shielding properties, braid shields are very flexible and add to the structural integrity of the cable.

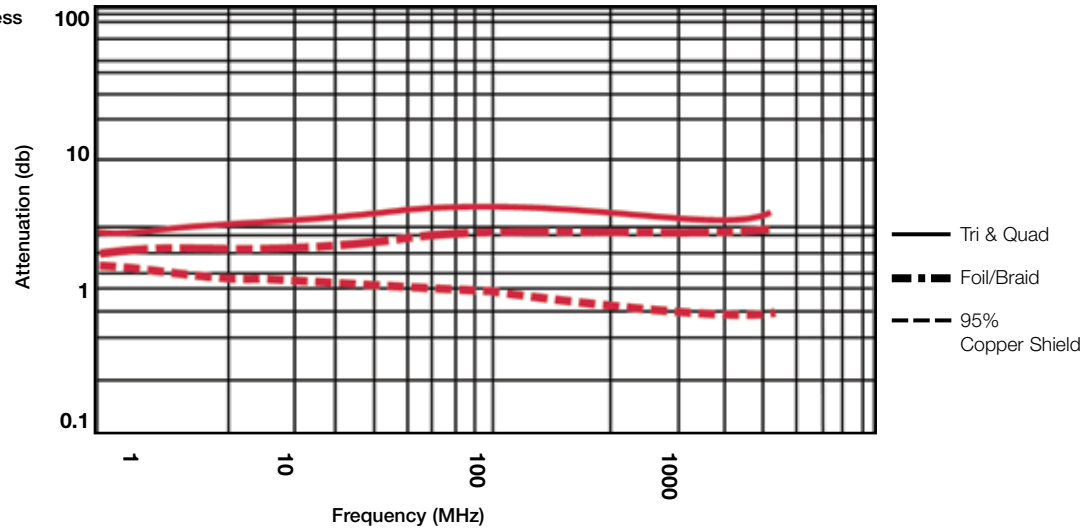
Braid shields differ widely in their construction; braid angle, strand diameter, wire type, numbers of ends per carrier and the number of carriers contribute to the effectiveness of the shield. Shield coverage varies between 40% and 95% for single braids and up to 98% for double braids.

Foil/braid combination shields consist of a tinned copper or aluminum braid over an aluminum/polyester or aluminum/ polypropylene foil tape. Braid coverage varies between 40% and 95%. However, aluminum foil coverage is 100%.

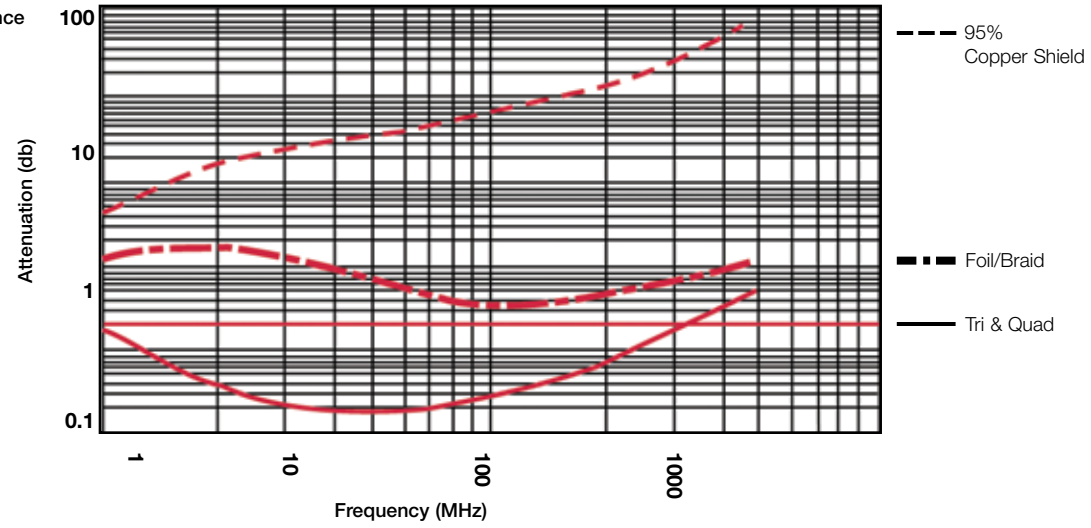
To gain greater shield effectiveness, an additional layer of foil is placed over the existing foil and braid which produces a Tri Shield cable. The highest grade shield effectiveness is found in Quad Shield cables. A Quad Shield coverage design consists of an aluminum foil with a 60% braid covered by an additional foil and 40% braid.

As shown in the graphs below, combination shields are more effective and offer better transfer impedance properties than single braid shields. Quad shielding also offers better long term performance because it is less effected by repeated flexing.

Shield Effectiveness



Transfer Impedance



Structural Return Loss

Structural return loss is the measure of power loss on a cable or system and is caused by discontinuities in the cable conductor or dielectric. If these discontinuities are regularly spaced along a cable, they can cause severe transmission losses for frequencies whose wavelengths are twice that of the distance between these discontinuities.

Structural return loss is an unfavorable characteristic of poorly-made cable, although careless installation can cause it as well. CommScope manufacturing lines are constantly computer monitored to avoid irregularities in the manufacturing process that could cause these flaws. Additionally, every reel of CommScope coaxial cable is sweep-tested prior to shipping.

Tilt

Another problem caused by different characteristics of low and high frequency signals is tilt. Although they are faster, high-frequency signals tend to lose power more quickly over distance than lower frequency signals. This power loss, called attenuation, is expressed in decibels (see attenuation above for more details) and the difference between the attenuations of the high and low frequency signals for the entire length of an installed cable in a carrier band system cannot exceed a certain tilt factor expressed in decibels (dB).

Tilt determines the maximum length of a cable segment in a carrier band network and is determined by where N is the maximum allowable tilt permitted by the system, A1 is the attenuation of the high frequency signal and A2 is the attenuation of the low frequency signal.

$$\frac{N}{A_1 - A_2}$$

Velocity of Propagation

Nominal velocity of propagation is the speed of the signal in a given cable. In a vacuum, electromagnetic radiation (light, radio waves, etc.) travels at the speed of light. In a cable, it travels somewhat slower and in direct inverse proportion to the dielectric constant; the lower the dielectric constant, the closer to the speed of light the signal travels.

Velocity of propagation is given as a percent figure of the speed of light and is calculated by where E r is the dielectric constant of the cable core.

$$\frac{1}{\sqrt{E_r}} \times 100$$

75Ω Coax Cable, Non-Plenum Series 59 (RG 59 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
5572 **8265103/10**  **NEC CM** **CEC CMH** 1000	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Al foil and 67% Al braid 10.5Ω/34.5Ω	Flame-retardant PVC .035/.89	Black .242/6.1	16.0 52.5	82%	75Ω	1 10 50 100 200 400 700 900 1000	0.58 0.89 1.81 2.48 3.43 4.88 6.56 7.48 7.91	1.90 2.92 5.94 8.13 11.25 16.01 21.52 24.53 25.94
5540 **8208804/10**  **NEC CM** **CEC CMH** 1000	20 AWG Solid CCS 48.2Ω/158Ω	Foam PE .144/3.66	Quad shield Al foil, 53% Al braid, Al foil and 35% braid 6.2Ω/20.3Ω	Flame-retardant PVC .035/.89	Black .265/6.7	16.0 52.5	84%	75Ω	1 10 50 100 200 400 700 900 1000	0.58 0.89 1.81 2.48 3.43 4.88 6.56 7.48 7.91	1.90 2.92 5.94 8.13 11.25 16.01 21.52 24.53 25.94
5565/5565H **8237703/10** **H 4265303/00**  **NEC CMR** **CEC CMR** 1000	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	Al foil and 90% TC braid 2.8Ω/9.18Ω	Flame-retardant PVC .032/.81	Black .242/6.1	16.7 54.8	82%	75Ω	1 3.6 10 71.5 135 270 360 720 1000	0.31 0.56 0.90 2.13 2.81 3.88 4.56 6.63 7.75	1.03 1.85 2.95 6.97 9.23 12.71 14.97 21.73 25.42
5786/5786H **8225503/10** **H 4266003/10**  **NEC CM** **CEC CMH/G** 1000	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame-retardant PVC .030/.76	Black White Gray .272/6.9 by .575/14.6	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000	0.37 0.66 1.41 1.92 2.64 3.73 5.05 5.79 6.11	1.21 2.16 4.62 6.30 8.66 12.23 16.56 18.99 20.04

75Ω Coax Cable, Plenum Series 59 (RG 59 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
2020V **4135703/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	20 AWG Solid CCS 48.2Ω/158Ω	Foam FEP .135/3.43	Al foil and 65% Al braid 10.3Ω/33.8Ω	PVDF(K) .015/.38 CommFlex(V) .015/.38	Cream .202/5.1 White .202/5.1	16.0 52.5	84%	75Ω	1 10 50 100 200 400 700 900 1000	0.48 0.88 1.85 2.51 3.58 5.50 7.45 8.70 9.31	1.56 2.87 6.07 8.24 11.73 18.04 24.44 28.54 30.55

1000 = 1,000 ft Reel

75Ω Coax Cable, Non-Plenum Series 6 (RG 6 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
5730 **4202613/10**  **NEC CM** **CEC CMH**	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Flame- retardant PVC 030/.76	Black White Gray Beige .272/6.9	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200 2500 3000	0.37 0.66 1.41 1.92 2.64 3.73 5.05 5.79 6.11 6.73 7.49 8.43 9.35 9.97 10.92	1.21 2.16 4.62 6.30 8.66 12.23 16.56 18.99 20.04 22.07 24.57 27.65 30.67 30.89 33.28
5730H **4265603/10**  **NEC CM** **CEC CMH**	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	Low Smoke Zero Halogen 030/.76	Black White Gray Beige .272/6.9	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200 2500 3000	0.37 0.66 1.41 1.92 2.64 3.73 5.05 5.79 6.11 6.73 7.49 8.43 9.35 9.97 10.92	1.21 2.16 4.62 6.30 8.66 12.23 16.56 18.99 20.04 22.07 24.57 27.65 30.67 30.89 33.28
5781 **8223514/10** **Quad Shield**  **NEC CM** **CEC CMG**	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	Quad shield Al foil, 60% Al braid, Al foil, 40% Al braid 4.9Ω/16.1Ω	Flame- retardant PVC .033/.83	Black White .300/7.6	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200	0.25 0.66 1.41 1.92 2.64 3.73 5.05 5.79 6.11 6.73 7.49 8.43 9.35	0.82 2.16 4.62 6.30 8.66 12.23 16.56 18.99 20.04 22.07 24.57 27.65 30.67
5738 **4685213/10** **Burial** 	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam PE .180/4.57	Al foil and 60% Al braid 9.7Ω/31.8Ω	PE with Floodant .030/.76	Black .272/6.9	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1800 2200	0.37 0.66 1.41 1.92 2.64 3.73 5.05 5.79 6.11 6.73 8.43 9.35	1.21 2.16 4.62 6.30 8.66 12.23 16.56 18.99 20.04 22.07 27.65 30.67

1000 = 1,000 ft Reel = We Tote Box

75Ω Coax Cable, Plenum Series 6 (RG 6 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
2275V **4137003/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Al foil and 60% Al braid 9.0Ω/21.0Ω	PVDF(K) .016/.41 CommFlex(V) .015/.41	Cream .239/6.1 White .239/6.1	16.0 52.5	84%	75Ω	1 0.38 1.25 10 0.70 2.30 50 1.48 4.85 100 2.01 6.59 200 2.86 9.38 400 4.23 13.87 700 5.96 19.55 900 6.96 22.83 1000 7.45 24.44 1450 9.34 30.64 1800 10.69 35.06 2200 11.54 37.85 3000 13.07 42.87
2227K/2227V **K 4112704/10** **V 4104504/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	18 AWG Solid CCS 28.6Ω/93.8Ω	Foam FEP .170/4.32	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 5.3Ω/17.4Ω	PVDF(K) .015/.41 CommFlex(V) .015/.41	Cream .260/6.6 White .260/6.6	16.0 52.5	84%	75Ω	1 0.38 1.25 10 0.70 2.30 50 1.48 4.85 100 2.01 6.59 200 2.86 9.38 400 4.23 13.87 700 5.96 19.55 900 6.96 22.83 1000 7.45 24.44 1200 8.25 24.75 1450 9.34 28.02 1800 10.69 32.07 2200 11.54 34.62 3000 13.07 42.87
2279V **4135303/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	Al foil and 95% TC braid 2.8Ω/9.3Ω	CommFlex(V) .015/.406	White .237/6.02	16.0 52.5	84%	75Ω	1 0.26 0.85 3.6 0.47 1.54 10 0.70 2.30 71.5 1.65 5.41 135 2.39 7.84 270 3.40 11.15 360 4.08 13.38 720 6.05 19.84 1000 7.45 24.44 1200 7.77 25.49 1450 8.61 28.24 1800 9.73 31.91 2500 11.70 38.38 3000 13.07 42.87

1000 = 1,000 ft Reel

75Ω Coax Cable, Non-Plenum Series 11 (RG 11 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
5916 **8203603/10**  **NEC CM** **CEC CMH** 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	Flame-retardant PVC .045/1.1	Black .395/10.0	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200 2500 3000	0.20 0.45 0.89 1.21 1.68 2.37 3.27 3.77 3.95 4.46 5.08 5.58 6.29 6.79 7.58	0.66 1.48 2.92 3.97 5.51 7.77 10.73 12.37 12.96 13.59 15.48 17.01 19.17 22.27 24.86
5940 **7413004/10**  **NEC CM** **CEC CMH** 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Quad shield Al foil, 60% Al braid, Al foil and 40% Al braid 3.7Ω/12.1Ω	Flame-retardant PVC .035/.89	Black .405/10.3	16.0 52.5	84%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200	0.17 0.45 0.89 1.21 1.68 2.37 3.27 3.77 3.95 4.46 5.08 5.58 6.29	0.56 1.48 2.92 3.97 5.51 7.77 10.73 12.37 12.96 13.59 15.48 17.01 19.17
5917 **8292903/10** **Burial**  1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam PE .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	PE with Floodant .045/1.1	Black .395/10.0	16.2 53.1	82%	75Ω	1 10 50 100 200 400 700 900 1000 1200 1450 1800 2200	0.20 0.45 0.89 1.21 1.68 2.37 3.27 3.77 3.95 4.46 5.08 5.58 6.29	0.66 1.48 2.92 3.97 5.51 7.77 10.73 12.37 12.96 13.59 15.48 17.01 19.17

1000 = 1,000 ft Reel

75Ω Coax Cable, Plenum Series 11 (RG 11 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
2285K **4136903/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam FEP .280/7.11	Al foil and 60% Al braid 6.9Ω/22.6Ω	Kynar (PVDF) .020/.51	Cream .351/8.9	16.0 52.5	84%	75Ω	1 10 50 100 200 400 700 900 1000	0.15 0.45 0.90 1.28 1.85 2.75 3.92 4.72 5.04	0.49 1.48 2.95 4.20 6.07 9.02 12.86 15.48 16.53
2287K **4103304/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	14 AWG Solid CCS 11.0Ω/36.1Ω	Foam FEP .280/7.11	Quad shield Al foil, 60% Al braid Al foil and 40% Al braid 3.9Ω/12.8Ω	Kynar (PVDF) .020/.51	Cream .372/9.4	16.0 52.5	84%	75Ω	1 10 50 100 200 400 700 900 1000 1450 1800 2200	0.15 0.45 0.90 1.28 1.85 2.75 3.92 4.72 5.04 6.67 7.71 8.50	0.49 1.48 2.95 4.20 6.07 9.02 12.86 15.48 16.53 21.87 25.28 27.88

75Ω Coax Cable, Plenum Hardline

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
2312K **4110103/24** **Plenum Trunk** **Plenumax**  **NEC CMP** **CEC CMP**	.109/2.76 Solid CCA 1.3Ω/4.26Ω	Foam FEP .450/11.4	Al sheath .40Ω/1.3Ω	PVDF(K) .012/.31	Cream .524/13.3	16.0 52.5	86%	75Ω	1 10 50 100 200 400 700 900 1000	0.07 0.23 0.56 0.83 1.25 1.97 2.92 3.47 3.78	0.23 0.75 1.84 2.72 4.10 6.46 9.58 11.38 12.40

75Ω Coax Cable, Industrial

Catalog Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz	dB/100'	dB/100 m
5060/5060H **8224604/10** **H 4265404/10** **Plenumax**  **NEC** **CEC CMG** 1000	18 AWG Copper Covered Steel 28.6Ω/93.8Ω	Foam FEP .180/4.57	Al foil 60% Al braid, Al foil and 40% Al braid 3.9Ω/12.8Ω	Flame- retardant PVC .034/.864	Black .300/7.62	16.0 52.5	82%	75Ω	1 2 5 10 20 50	0.36 0.38 0.45 0.59 0.86 1.38	1.18 1.25 1.48 1.94 2.82 4.53

1000 = 1,000 ft Reel

75Ω Coax Cable, Non-Plenum Series 59 (RG 59 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
5553 **8836303/10**  **NEC CM** **CEC CMH** 1000	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame-retardant PVC .037/.94	Black, White Gray .242/6.1	16.7 54.8	82%	75Ω	1 0.30 0.98 10 0.84 2.76 100 2.71 8.89 400 5.85 19.19 700 8.42 27.62 900 9.83 32.24 1000 10.20 33.46 1000 10.20 33.46
5553H **4265303/10**  **NEC CM** **CEC CMH** 1000	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG Pair (7x26) BC	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Low Smoke Zero Halogen .037/.94	Black .242/6.1 by .484/12.3 wide	16.7 54.8	82%	75Ω	1 0.30 0.98 10 0.84 2.76 100 2.71 8.89 400 5.85 19.19 700 8.42 27.62 900 9.83 32.24 1000 10.20 33.46
5554 **4254203/10**  **NEC CM** **CEC CMH** 1000	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG Pair (7x26) BC	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	Flame-retardant PVC .037/.94	Black .242/6.1 by .484/12.3 wide	16.7 54.8	82%	75Ω	1 0.30 0.98 10 0.84 2.76 100 2.71 8.89 400 5.85 19.19 700 8.42 27.62 900 9.83 32.24 1000 10.20 33.46
5520 **4209203/10** **Burial**  **Outdoor** 1000	20 AWG Solid BC 10.5Ω/34.4Ω	Foam PE .144/3.66	93% BC Braid 3.9Ω/12.8Ω	PE with floodant .037/.94	Black .242/6.1	16.7 54.8	82%	75Ω	1 0.30 0.98 10 0.84 2.76 100 2.71 8.89 400 5.85 19.19 700 8.42 27.62 900 9.83 32.24 1000 10.20 33.46

75Ω Coax Cable, Plenum Series 59 (RG 59 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
2037V **4131603/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	20 AWG Solid BC 10.5Ω/34.4Ω	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	CommFlex(V) .016/.41	White .193/4.9	16.0 52.5	84%	75Ω	1 0.30 0.98 10 0.86 2.82 50 1.91 6.26 100 2.78 9.12 200 4.06 13.32 400 6.01 19.71 700 8.47 27.78 900 9.82 32.21 1000 10.47 34.34
2054V **8721103/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	20 AWG Solid BC 10.5Ω/34.4Ω and 18 AWG pair (7x26) BC	Foam FEP .135/3.43	93% BC Braid 3.6Ω/11.8Ω	PVDF(K) .015/.38 CommFlex(V) .016/.41	White Cream .189/4.8 by .386/9.8 wide	16.0 52.5	84%	75Ω	1 0.30 0.98 10 0.86 2.82 50 1.91 6.26 100 2.78 9.12 200 4.06 13.32 400 6.01 19.71 700 8.47 27.78 900 9.82 32.21 1000 10.47 34.34

1000 = 1,000 ft Reel = We Tote Box

75Ω Coax Cable, Non-Plenum Series 6 (RG 6 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
5700 **8288203/10**  **NEC CM** **CEC CMH** 1000	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .033/.84	Black .272/6.9	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93 700 6.23 20.43 900 7.23 23.71 1000 7.75 25.42
5700H **4265703/10**  **NEC CM** **CEC CMH** 1000	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Low Smoke Zero Halogen .033/.84	Black .272/6.9	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93 700 6.23 20.43 900 7.23 23.71 1000 7.75 25.42
5654 **8288103/10**  **NEC CM** **CEC CMG** 1000	18 AWG Solid BC 6.5Ω/21.2Ω and 18 AWG pair (7x26)BC	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	Flame- retardant PVC .033/.84	Black .272/6.9 by .514/13.1 wide	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93 700 6.23 20.43 900 7.23 23.71 1000 7.75 25.42
5720 **8288603/10** **Burial**  **Outdoor** 1000	18 AWG Solid BC 6.5Ω/21.2Ω	Foam PE .180/4.57	92% BC Braid 3.0Ω/9.9Ω	PE with floodant .033/.84	Black .272/6.9	16.2 53.2	82%	75Ω	1 0.19 0.62 10 0.65 2.14 100 2.16 7.09 400 4.55 14.93 700 6.23 20.43 900 7.23 23.71 1000 7.75 25.42

75Ω Coax Cable, Plenum Series 6 (RG 6 Type)

Product Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
2277V **4123803/10** **Plenumax**  **NEC CMP** **CEC CMP** 1000	18 AWG Solid BC 6.5Ω/21.2Ω	Foam FEP .170/4.32	92% BC Braid 4.4Ω/14.4Ω	CommFlex(V) .016/.41 PVDF .018/.46	White .226/5.7	16.0 52.5	84%	75Ω	1 0.21 0.69 10 0.65 2.13 100 2.04 6.69 400 4.46 14.63 700 5.89 19.32 900 7.47 24.50 1000 8.02 26.31

75Ω Coax Cable, Plenum Series 11 (RG 11 Type)

Catalog Number Material ID Packaging Options Safety Rating	Conductor Size & Type Nom DCR kft/km	Dielectric Type Nom OD in/mm	Shields Type & Coverage Nom DCR kft/km	Jacket Type & Thickness in/mm	Cable Color & Dimensions in/mm	Nominal Capacitance pF/ft pF/m	Nom Vel. of Prop.	Nom Imp.	Typical Attenuation MHz dB/100' dB/100 m
2286K **4138303/10**  **NEC CMP** **CEC CMP** 1000	14 AWG Solid BC 2.9Ω/9.5Ω	Foam FEP .280/7.11	95% BC Braid 2.5Ω/8.2Ω	PVDF(K) .020/.51	Cream .347/8.7	16.0 52.5	82%	75Ω	1 0.09 0.27 10 0.43 1.41 100 1.48 4.85 400 3.24 9.72 700 4.67 14.01 900 5.46 16.38 1000 5.83 17.49

1000 = 1,000 ft Reel = We Tote Box

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Proven Quality and Performance

In the past thirty years, fiber optic cables have evolved from a laboratory novelty to become an indispensible necessity on the communication superhighway. The superior bandwidth and versatility of fiber optic make it the transmission medium of choice for a variety of communication applications.

CommScope offers three families of fiber optic cables to be used anywhere in the communication hierarchy: Outside Plant, Indoor/Outdoor and Distribution.

Outside plant cables for standard and rugged environments

For direct buried, underground duct and aerial installations, CommScope offers several designs, which include a variety of loose tube cables, from all-dielectric to heavy duty double armored, triple-jacketed cables. Design options include: Drop Armored, a smaller, lighter weight cable for use when space is at a minimum; Central Tube for point-to-point installations; or Stranded Loose Tube. CommScope also offers fiber optic Pavement Cable, which can be easily installed for non-obtrusive placement in asphalt or concrete substrates. Any of these cables may be pre-installed in high-strength OSP conduit. From Arid-Core loose tube cables containing gel-filled buffer tubes to totally gel-free designs CommScope has cables that fit your application.

Indoor/outdoor cables for strength and safety (including zero-halogen types)

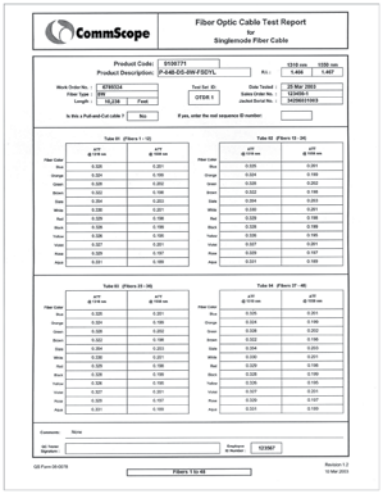
CommScope's design for these hybrid application cables offers construction and jacketing suitable for outside usage yet comply with NEC/CEC riser (OFNR) and plenum (OFNP) flame safety standards. This design allows you to run cable through the building entrance without having to terminate or splice different cables together, resulting in significant savings of time and labor. Cable types include Central Tube (riser), standard and heavy-duty Stranded Loose Tube (riser and plenum); cordage (riser/LSZH); and tight buffered distribution (riser/LSZH and plenum).

Distribution cables for safety and performance

CommScope's distribution cables are designed to handle the requirements of indoor applications, including NEC/CEC flame safety ratings of riser (OFNR) and plenum (OFNP). CommScope offers a variety of distribution and cordage cables. All CommScope distribution distribution cables are offered with FiberGuard, an optional aluminum interlocking armor with a jacket matching the flame rating of the cable. CommScope also offers heavy-duty distribution cables that provide additional fiber protection.

Fiber Optic Components

CommScope offers an innovative line of optical components for distribution and outside plant applications. This product line includes connectors, adapters, enclosures, panels, fanouts, closures, preconnectorized cable and jumpers.



Test reports - a higher standard for higher speeds

Every reel of CommScope fiber optic cable is subjected to stringent testing throughout the entire manufacturing process. Our state-of-the-art process controls and testing systems insure that every foot of CommScope cable consistently meets or exceeds our high standards.

To prove that our fiber optic cables exceed industry standards, we go to the extra step of attaching the individual cable test report to every reel. You get proof-positive that the cable you purchase will perform to the level you require.

Uniprise is known for high quality products, cabling solutions and service. WebTrak® is an on-line certified report system for Uniprise Twisted Pair and Fiber Optic cables. Online test reports are available for all UltraPipe®, UltraMedia®, Media 6®, Ultra II®, and DataPipe® series Uniprise cables and all fiber optic cables.

Remember, a network is only as good as the cable that connects it. Specify the cables that allow networks to communicate: Fiber optic cables from CommScope.

Detailed product specification sheets are available at the download area of our website.

Fiber Optic Cable

Cable and Fiber Color Identification

Standard Jacket Color (according to fiber type):			
Indoor:	50 micron (LazrSPEED)	AQ for Aqua	**Outside Plant and Indoor/Outdoor:** All fiber types are BK for Black
	62.5 micron (OptiSPEED)	OR for Orange or SL for Slate	
	Single-mode (TeraSPEED)	YL for Yellow	

Standard Color Coding:		
1 - Blue	5 - Slate	9 - Yellow
2 - Orange	6 - White	10 - Violet
3 - Green	7 - Red	11 - Rose
4 - Brown	8 - Black	12 - Aqua

For indoor and indoor/outdoor, fibers are identified with standard color coding.

For 18 and 24 fiber single unit cables, fibers 13 through 24 repeat the sequence with tracer stripe (i.e. fiber 13 is blue with tracer stripe).

For central tube cables, fiber bundles and fibers are identified with standard color coding.

For stranded loose tube cables, buffer tubes and fibers are identified with standard color coding.

For 18 buffer tube and 25 buffer tube cores found in stranded loose tube cables, buffer tubes 13 through 24 repeat the color sequence with tracer stripe (i.e. tube 13 is blue with tracer stripe).

Cable Sizing and Specification

When sizing and selecting cable, the following rules of thumb are useful. Please note, they are only guidelines. Since each site has its own unique characteristics, a detailed data collection and design process is required.

- A growth factor of between 50% and 100% is often applied after sizing current needs
- Factors affecting backbone cable sizing include:
  - Campus layout
  - Campus size (number of buildings)
  - Level of automation (amount of computer connectivity)
  - Amount of point-to-point traffic vs. LAN traffic
  - Level of redundancy
- Cable type selection is based on environment and cost
- Use a mixture of single-mode and multimode fiber optic cables (recommended 30:70 split minimum, respectively)

Install both Multimode and Single-mode

SYSTIMAX Solutions recommends deploying multimode and single-mode fiber in the backbone segments of both buildings and campuses in the industrial and office environment. This combination will most cost-effectively support present day applications as well as provide future proofing for tomorrow's higher speed LANs and broadband video. Of course these recommendations must be weighed against the application and planning horizons of each customer. The optimal ratio of single-mode to multimode depends on the predicted need to support applications that exceed the capability of multimode. SYSTIMAX Solutions generally recommends 30% single-mode to those customers forecasting gigabit applications in their future. If such applications are in the immediate or near future, then consider higher ratios.

Install Enough Fiber

It is important to install enough fiber to support the present and future applications that will simultaneously share the cable segment. Take into account the type and number of fibers that each application requires and add in spare capacity for future proofing. Generally, LAN applications require two fibers, while video applications will require one or two fibers depending on whether they are unidirectional or bi-directional. (Video links that use bi-directional communications include those that return video, audio, camera control or data signals.) Add in at least 50% spare capacity and round the fiber-count upward to the next standard size.

Basic Configurator for Fiber Optic Cables

Single Unit and Multi-Unit Fiber Optic Cables

P - 012 - DS - 5L - F SU AQ **Sample Part Number**

Position 1 | Position 2 | Position 3 | Position 4 | Position 5 | Position 6 | Position 7

Position 1: Cable Style — P - 012 - DS - 5L - FSUAQ

D	All Dry Outside Plant	**Z**	Zero Halogen Indoor/Outdoor	**O**	Outside Plant (Arid Core®)
M	Messenger	**P**	Plenum	**S**	Outside Plant (All Dielectric, Self-Supporting)
N	Zero Halogen (Indoor Only)	**R**	Riser		

Position 2: Fiber Count — P - 012 - DS - 5L - FSUAQ

Total Fiber Count (XXX variable in catalog number.)

Position 3: Cable Construction — P - 012 - DS - 5L - FSUAQ

Outside Plant Cable Constructions

LA	Stranded Loose Tube Armored	**DA**	Drop Armored	**MN**	Mini-drop All Dielectric
LN	Stranded Loose Tube Non Armored All Dielectric	**DF**	Flat Drop All-Dielectric		
LD	Stranded Loose Tube All Dielectric/Dual Jacket	**DN**	Drop All Dielectric		
L2	Stranded Loose Tube Dual Jacket/Single Armor	**CN**	Central Tube Non Armored All Dielectric		
L3	Stranded Loose Tube Triple Jacket/Dual Armor	**CA**	Central Tube Armored		

Indoor & Indoor/Outdoor Cable Constructions

Tight Buffer				Loose Tube			
DS	Distribution	**OD**	I/O Plenum Distribution	**LN**	Stranded Loose Tube Non Armored All Dielectric	**CN**	Central Tube All Dielectric
ZC	Zipcord			**LH**	Stranded Loose Tube Heavy Duty Non Armored		

FiberGuard® *For tight buffered and loose tube I/O cables only, use first character of the construction code above plus one of the following:*

Z Aluminum Armor w/Jacket

**LH cables cannot be Interlocked Armored*

Position 4: Fiber Type — P - 012 - DS - 5L - FSUAQ

8W	TeraSPEED single-mode	**5M**	50µm, LazrSPEED 150, multimode (OM2+)	**5K**	50µm, LazrSPEED 550, multimode (OM4)
6F	OptiSPEED 62.5/125µm FDDI Grade, multimode (OM1)	**5L**	50µm, LazrSPEED 300, multimode (OM3)		

CM *Composite (single-mode & multimode)* **HY** *Hybrid (Fiber, Copper, Coax)*

**XY variable in catalog number*

Position 5: Jacket Print — P - 012 - DS - 5L - FSUAQ

F	Printed in Feet (Standard)	**M**	Printed in Meters	**X**	Special Print

Position 6: Miscellaneous Values — P - 012 - DS - 5L - FSUAQ

For cordage, value indicates outside diameter; otherwise additional description

01-12 Fiber Count per Subunit **SU** Single Unit **MU** Multi Unit

Cordage

16 1.6mm Jacket OD **20** 2.0mm Jacket **25** 2.5mm Jacket OD **29** 2.9mm Jacket OD

Position 7: Color Field — P - 012 - DS - 5L - FSUAQ

For Outside Plant Cables, this field designates color of stripe/tracer. Outside Plant Cables are manufactured with a standard black jacket — No Stripe (NS). Stripes (tracers) are also available in the following colors (min. order required):

BL	Blue	**OR**	Orange	**GR**	Green	**BR**	Brown	**SL**	Slate	**WH**	White
RD	Red	**BK**	Black	**YL**	Yellow	**VI**	Violet	**RS**	Rose	**AQ**	Aqua

For Distribution Cables, this field indicates jacket color. Standard jacket colors:

BK	Black for Indoor/Outdoor and Tight Buffer Outside Plant	**YL**	Yellow for single-mode
OR	Orange for 62.5 Multimode & Composite	**AQ**	Aqua for LazrSPEED & LazrSPEED Composites
SL	Slate for 62.5 Multimode & Composite		

**ZZ variable in catalog number. *I/O and OSP Cables are black jacket only*

For Indoor Distribution Cables and Zipcords. Available Non Standard jacket colors: (min. order required)

BL	Blue	**OR**	Orange	**GR**	Green	**BR**	Brown	**SL**	Slate	**WH**	White
RD	Red	**BK**	Black	**YL**	Yellow	**VI**	Violet	**RS**	Rose	**AQ**	Aqua

Positions 8-11: When Position 4 is CM — P - 012 - DS - CM - FSUAQ — 8W 006 5L 006

Position 8: First Fiber Type
Position 9: First Fiber Count
Position 10: Second Fiber Type
Position 11: Second Fiber Count

Pos. 8 Pos. 9 Pos. 10 Pos. 11

When single-mode and multimode fibers are used in a composite, then single-mode is positioned first

Positions 8-11: When Position 4 is HY — O - 012 - DN - HY - F12NS — 8W 006 F6SSBW GSM 40T

Position 8: Fiber Type
Position 9: Fiber Count
Position 10: Copper Type
Position 11: Messenger Description
Position 12: Tube Size

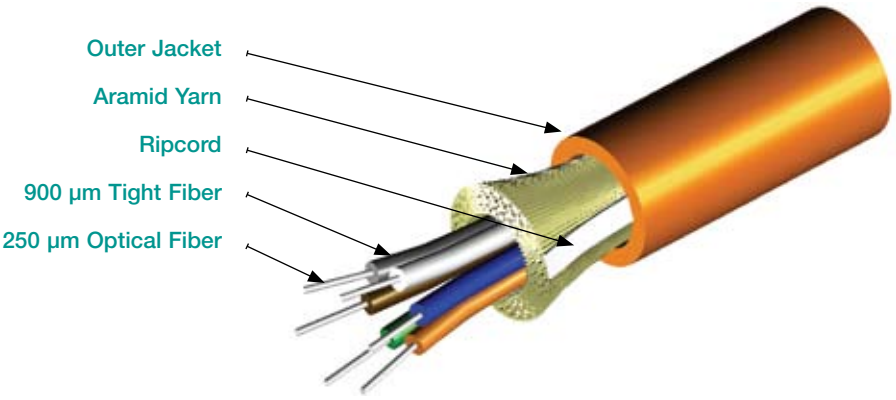
Pos. 8 Pos. 9 Pos. 10 Pos. 11 Pos. 12

When no messenger is present, Tube Size moves to Position 11 and there is no Position 12. When Position 3 is LH, LN or LA, Position 8 is 25D, 20G or 20T

**Other options are available that are not currently listed in the above chart.*

Cable Constructions

Distribution Cables (Single-Unit Series)



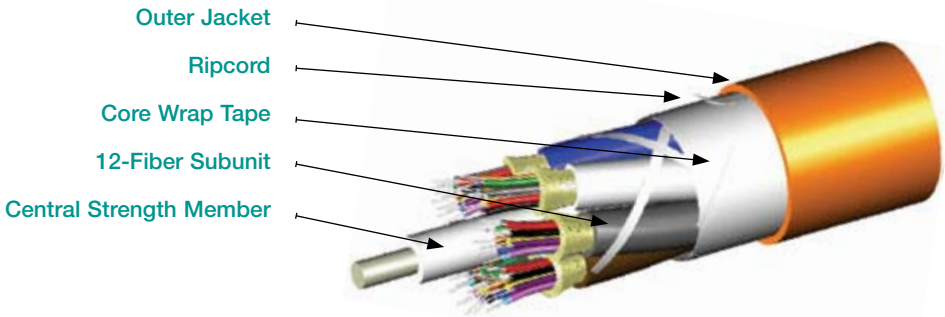
12-Fiber Subunit
Outer Diameter = 6.0 mm (0.24 in)



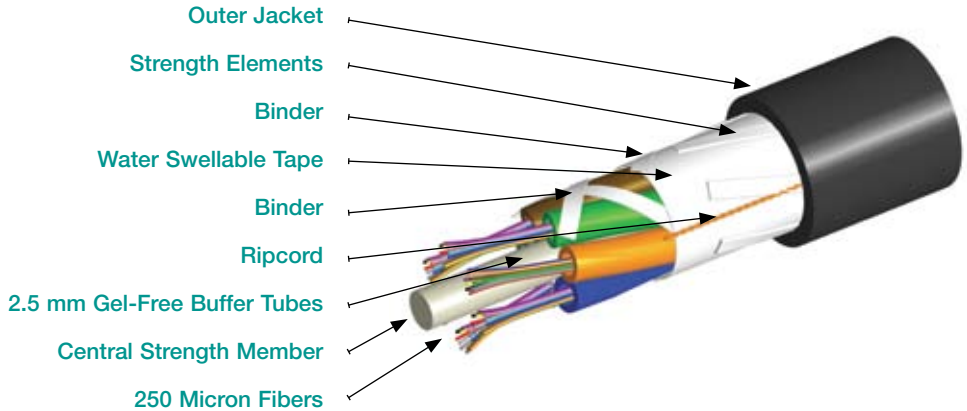
6-Fiber Subunit
Outer Diameter = 5.2 mm (0.20 in)



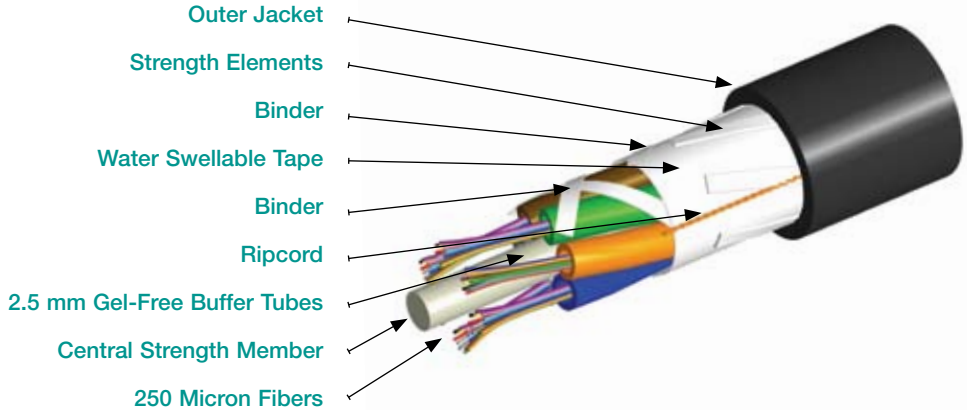
Distribution Cables (Multi-Unit Series)



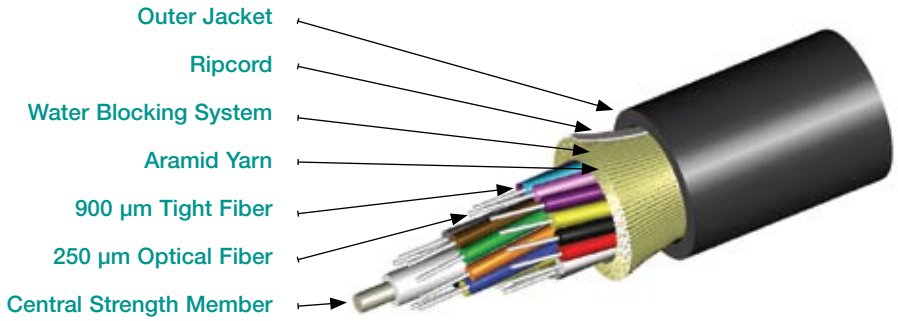
Indoor/Outdoor Stranded Loose Tube Cables (Plenum P-LN Series)



Indoor/Outdoor Stranded Loose Tube Cables (Riser R-LN Series)



Indoor/Outdoor Tight Buffered Cables (Single Unit Z-DS, P-OD Series)



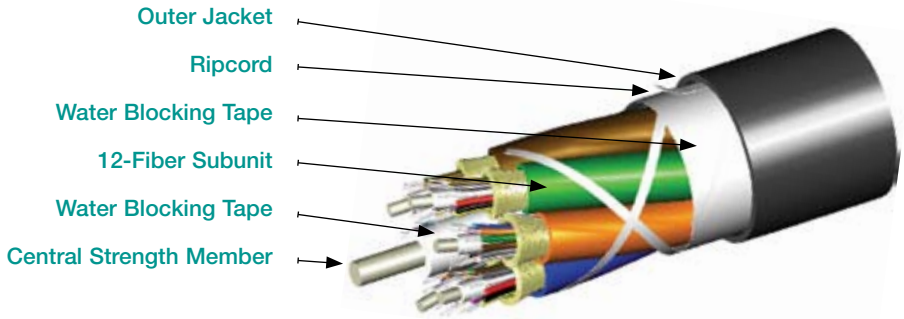
12-Fiber Subunit
Outer Diameter = 7.2 mm (0.28 in)



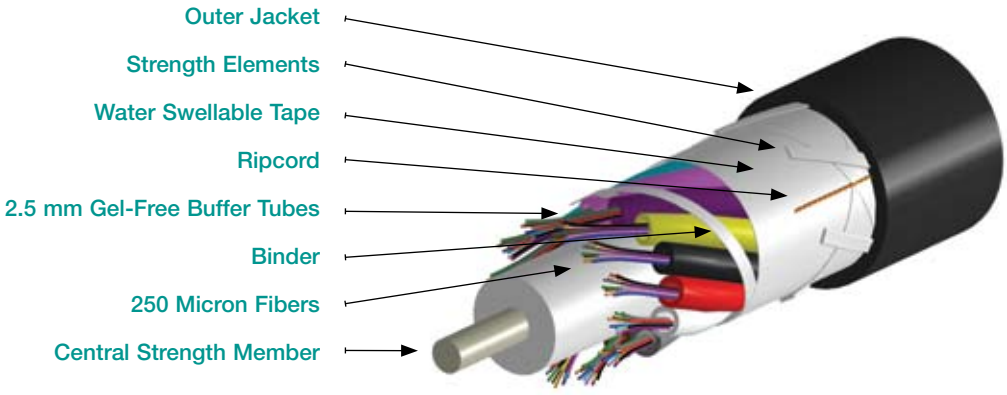
6-Fiber Subunit
Outer Diameter = 5.5 mm (0.22 in)



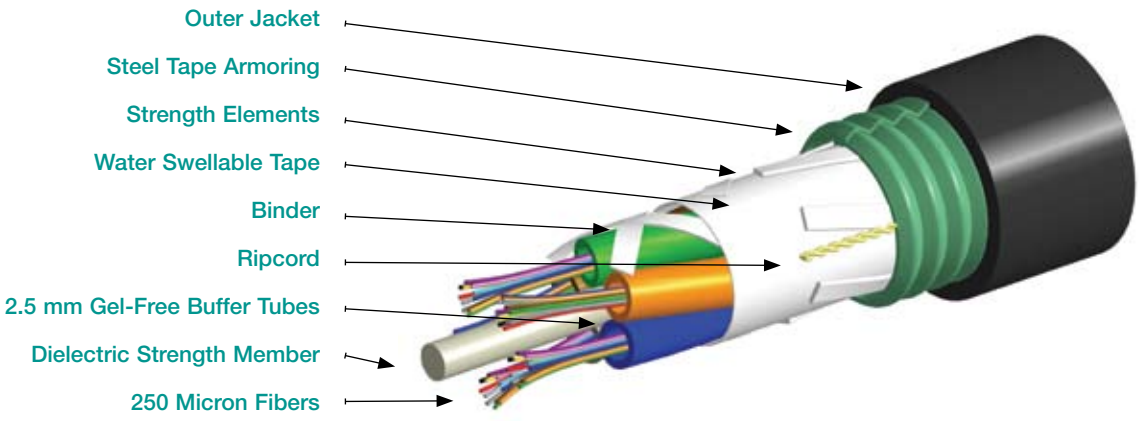
Indoor/Outdoor Tight Buffered Cables (Multi-Unit Z-DS, P-OD Series)



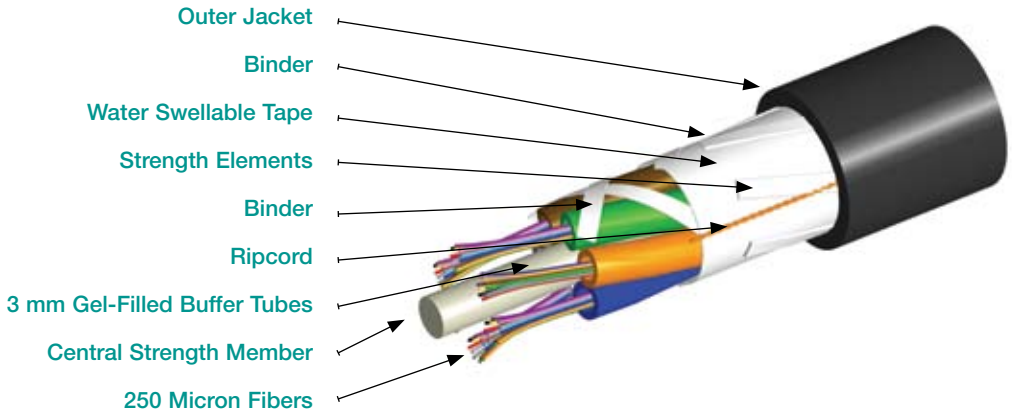
Outside Plant Stranded Loose Tube Cables All Dry (Dielectric D-LN Series)



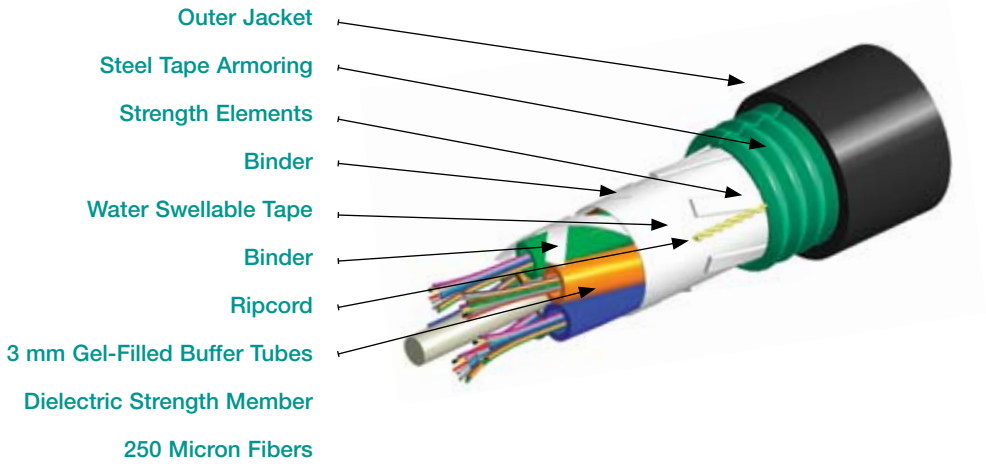
Outside Plant Stranded Loose Tube Cables All Dry (Metallic O-LA Series)



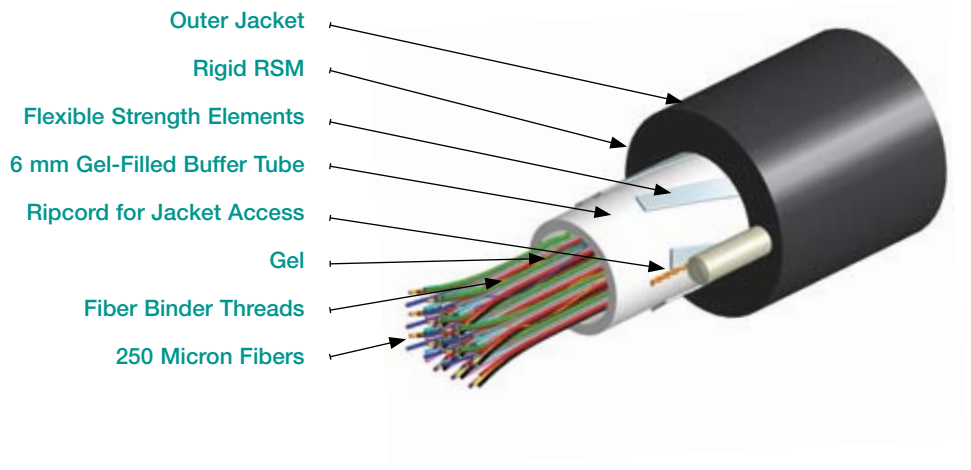
Outside Plant Stranded Loose Tube Cables (Dielectric O-LN Series)



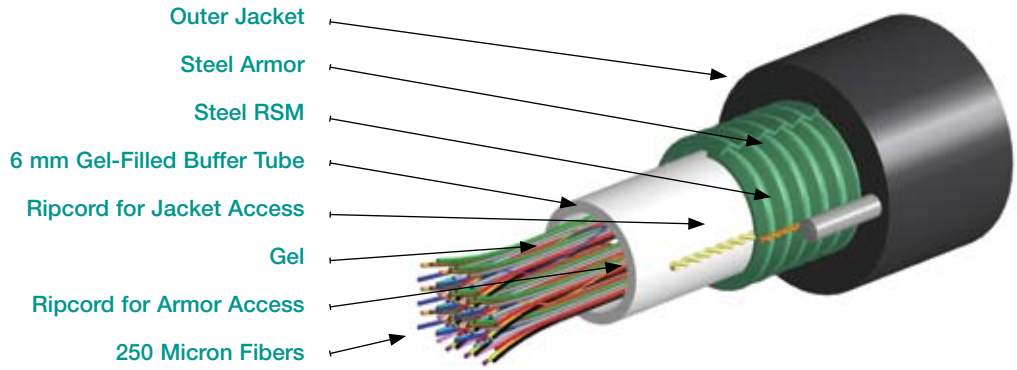
Outside Plant Stranded Loose Tube Cables (Metallic O-LA Series)



Outside Plant Central Tube Cables (Dielectric O-CN Series)

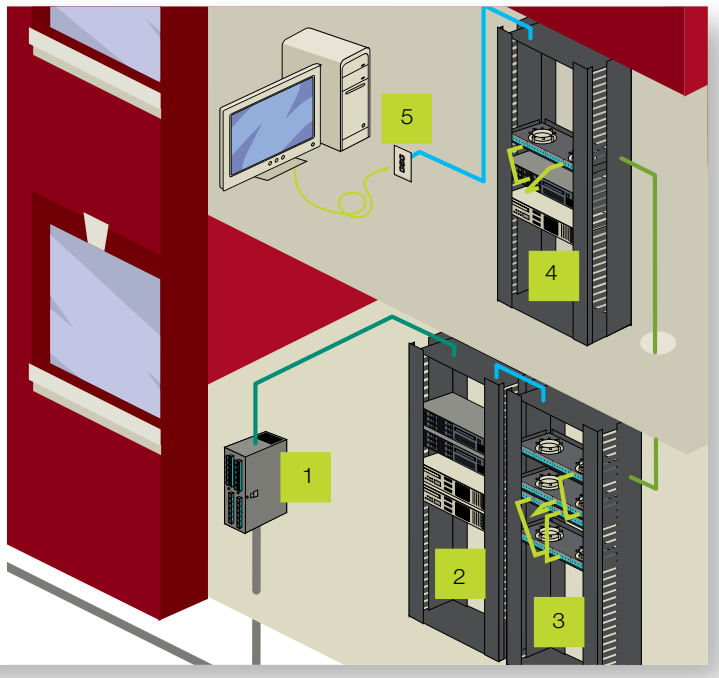


Outside Plant Central Tube Cables (Metallic O-CA Series)



LazrSPEED® Solution
Laser Optimized 50µm Multimode

1 Fiber optic LIU
2 Racks and cabinets
3 Equipment room:
-360 G2 modular shelf and panel shelf
4 Telecom room:
-360 G2 modular shelf and panel shelf
5 Faceplate/multimedia information outlet
LazrSPEED outside plant cable
LazrSPEED indoor/outdoor cable
LazrSPEED indoor cable
LazrSPEED patch cord
LazrSPEED riser cable



LazrSPEED Solution

LazrSPEED® fiber is the perfect choice for new installations because it has been designed to support 10 Gbps up to 550 meter distances. This fully supports the vast majority of in-building distance requirements. The LazrSPEED Solution is flexible and supports all the current LANs from 10 Mbps to 1 Gbps. Gigabit ethernet is supported up to over 1 kilometer for 1000BASE-SX. A future upgrade to 10 Gbps can be easily accomplished by simply plugging in short wavelength (850 nm) 10 Gbps electronics in to the existing LazrSPEED channels up to 550 meters depending on LazrSPEED fiber type. The LazrSPEED Solution also enables dual speed 1 Gbps/10 Gbps ports, which allow less disruptive incremental upgrades of switches and servers. The LazrSPEED Solution supports very high speed data transmission by controlling differential mode delay (DMD) that results when light rays travelling along the various pathways (modes) arrive at the detector at different times. DMD can cause an optical signal to be detected as several different signals.

With the lowest multimode optical channel loss available and the breakthrough bandwidth performance, a LazrSPEED LC solution easily meets the gigabit ethernet standard and sets the pace for 10 Gbps support. This channel loss performance (0.17dB average loss for LC connections, 3.0 dB/km loss for cables at 850 nm) and bandwidth performance enable cost-effective 10 Gbps (OM4) networks as well as increased network reliability for gigabit applications. It is available in three versions:

LazrSPEED 550 (OM4)

- Meets and exceeds the next generation 50µm multimode fiber (OM4) specifications in standards
- Over 4,700 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 550 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 1.1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 300 (OM3)

- Meets and exceeds the next generation 50µm multimode fiber (OM3) specifications in standards
- Over 2,000 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 300 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 1 km
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED 150 (OM2+)

- Meets and exceeds the 50µm multimode fiber (OM2) specifications in standards
- Over 950 MHz-km laser bandwidth at 850 nm
- Designed to support low complexity 10 Gbps serial transmission to 150 meters
- Supports all serial and CWDM options for 10 Gbps ethernet
- Supports 1 Gbps ethernet up to 800 meters
- Laser optimized
- Suitable for LANs from 10 Mbps to 10 Gbps

LazrSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or STII+ Connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

LazrSPEED® Specifications

LazrSPEED 550/300/150

Laser Optimized 50 Micron Multimode Fiber

LazrSPEED 550 = OM4
LazrSPEED 300 = OM3
LazrSPEED 150 = OM2+

Physical Characteristics

Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.0 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, max.	6 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1300 nm

Optical Characteristics, Wavelength Specific

	850 nm	1300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.0 dB/km	1.0 dB/km
Bandwidth, OFL	**550:** 3,500 MHz-km	500 MHz-km
	300: 1,500 MHz-km	500 MHz-km
	150: 700 MHz-km	500 MHz-km
Bandwidth, Laser	**550:** 4,700 MHz-km	500 MHz-km
	300: 2,000 MHz-km	500 MHz-km
	150: 950 MHz-km	500 MHz-km
Differential Mode Delay	**550:** Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2)	0.88 ps/m
	300: Exceeds TIA-492AAAC-A (IEC-60793-2-10ed2)	0.88 ps/m
	150: 0.70 ps/m	0.88 ps/m
1 Gbps Ethernet Distance	**550:** 1,100 m	600 m
	300: 1,000 m	600 m
	150: 800 m	600 m
10 Gbps Ethernet Distance	**550:** 550 m	
	300: 300 m	
	150: 150 m	

Optical Characteristics, General

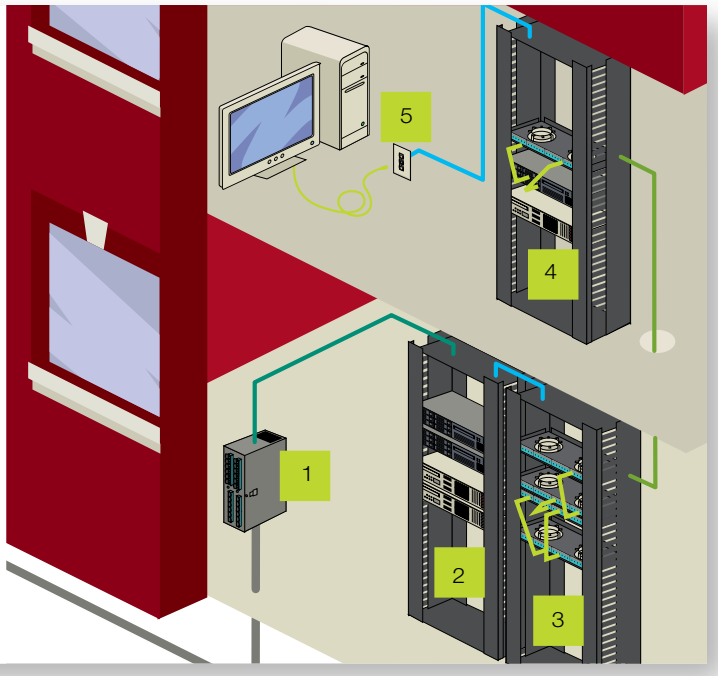
Numerical Aperature	0.200 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1295-1340 nm
Zero Dispersion Slope	0.105 ps/[km-nm-nm]
Backscatter Coefficient	-68.0/-75.7 dB @ 850/1300 nm
Index of Refraction	1.483/1.479 @ 850/1300 nm

Environmental Characteristics

Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.10 dB
Water Immersion, 73.4°F (23°C)	≤ 0.10 dB
Heat Aging, 185°F (85°C)	≤ 0.10 dB

OptiSPEED® Solution 62.5µm Multimode

1 Fiber optic LIU
2 Racks and cabinets
3 Equipment room:
-360 G2 modular shelf and panel shelf
4 Telecom room:
-360 G2 modular shelf and panel shelf
5 Faceplate/multimedia information outlet
OptiSPEED outside plant cable
OptiSPEED indoor/outdoor cable
OptiSPEED indoor cable
OptiSPEED patch cord
OptiSPEED riser cable



OptiSPEED Solution

CommScope OptiSPEED® Solution was developed to provide a fiber optic solution that is the backbone for today's performance requirements. 62.5 micron multimode fiber provides high speed links to support signal transmission up to the TIA standard of 300 meters within a building and up to 2,000 meters or 2 kilometers within a campus for many of today's legacy LANs.

The OptiSPEED channel, including the low loss LC connector, supports the 1000BASE-SX Gbps ethernet LAN, up to 300 meters with 6 LC connections. The OptiSPEED Solution supports up to 600 meter for 1000BASE-LX, Gbps ethernet LAN applications. In addition, the OptiSPEED Solution supports 10 Gbps ethernet using CWDM 1,300 nm lasers to 300 meters.

In addition to LC connectors, the OptiSPEED Solution supports the duplex SC connector as well as the ST II+ connector although over restricted applications and number of connections. The LC is a small form factor connector that allows two LC connectors to fit in the space of a traditional connector such as the SC or ST II+. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

CommScope channels comprised exclusively of OptiSPEED multimode passive products, end-to-end, are capable of delivering up to 10 Gbps in accordance with application standards.

Features and Benefits:

- Standard multimode fiber
- Lowest multimode fiber channel loss available, up to 50% less than other systems
- Lowest loss small form factor connector available in the industry—LC connector

OptiSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

OptiSPEED® Specifications

OptiSPEED Optical Fiber

62.5 Micron, Multimode Fiber

Physical Characteristics

Core Diameter	62.5 ± 2.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Core/Clad Offset	≤ 1.0 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, Max.	6 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns @ 75 mm mandrel)	0.50 dB max. @ 850 nm and 1,300 nm

Optical Characteristics, Wavelength Specific

	850 nm	1,300 nm
Max. Attenuation, Loose Tube Cable	3.0 dB/km	1.0 dB/km
Max. Attenuation, Tight Buffer Cable	3.4 dB/km	1.0 dB/km
Bandwidth, OFL	220 MHz-km	500 MHz-km
Group Refractive Index	1.496	1.491
1 Gb Ethernet Distance	300 m	550 m

Optical Characteristics, General

Numerical Aperature	0.275 ± 0.015
Point Defects, Max.	0.15 dB
Zero Dispersion Wavelength	1,320-1,365 nm
Zero Dispersion Slope	0.11 ps/[km•nm^2] from 1320-1348 nm
Backscatter Coefficient	-68.0/-75.7 dB @ 850/1300 nm
Index of Refraction	1.496/1.491 @ 850/1300 nm

Environmental Characteristics

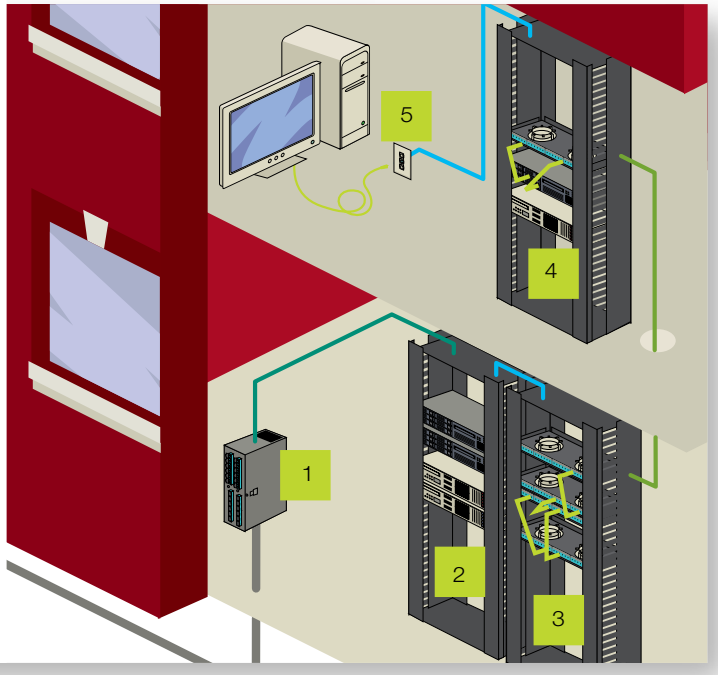
Temperature Dependence -76°F to 185°F (-60°C to 85°C)	≤ 0.10 dB
Temperature Humidity Cycling 14°F to 185°F (-10°C to 85°C) up to 95% RH	≤ 0.20 dB
Water Immersion, 73.4°F (23°C)	≤ 0.20 dB
Heat Aging, 185°F (85°C)	≤ 0.20 dB

TeraSPEED® Solution
Zero Water Peak Single-mode

1 Fiber optic LIU
2 Racks and cabinets
3 Equipment room:
-360 G2 modular shelf and panel shelf

4 Telecom room:
-360 G2 modular shelf and panel shelf

5 Faceplate/multimedia information outlet
TeraSPEED outside plant cable
TeraSPEED indoor/outdoor cable
TeraSPEED indoor cable
TeraSPEED patch cord
TeraSPEED riser cable



TeraSPEED Solution

CommScope TeraSPEED® Solution was developed to provide a fiber optic solution that is the metro/campus backbone for today's performance requirements. TeraSPEED cables provide the widest possible usable wavelength spectrum by eliminating the high loss caused by water impurities in the 1,400 nm region. With this 'water peak' eliminated, the entire spectrum from 1,260 nm to 1,620 nm is available, allowing for future expansion of data rates and additional services by the use of cost-effective coarse wavelength division multi-plexing (CWDM).

In addition to LC connectors, TeraSPEED Solution supports the duplex SC connector as well as the ST II+ connector. An extensive line of wall and rack mounted cabinets and telecommunication outlets for building entrance facilities, equipment rooms, telephone closets/floor distributors and work areas are available.

CommScope channels comprised exclusively of TeraSPEED single-mode passive products, end-to-end, are capable of delivering in excess of 10 Gbps in accordance with application standards.

Features and Benefits:

- Zero water peak single-mode fiber
- G.652.C/D compliant
- Lowest loss fiber available at 1,383 nm E-band
- Supports legacy single-mode equipment and applications
- 60% more usable wavelengths
- Maximizes support for lowest cost CWDM technology and delivers lowest cost path to future single-mode applications
- Lowest loss small form factor connector available in the industry—LC Connector

TeraSPEED products include:

- Distribution Cable
- Indoor/Outdoor Cable
- Outside Plant Cable (where appropriate for the enterprise market)
- LC Connectors (SC or ST II+ connectors available for limited applications and connections)
- Splice and Termination Shelves
- Multimedia Outlets and Boxes
- Connectorized Patch Cords

TeraSPEED® Specifications

TeraSPEED Optical Fiber

Dispersion-Unshifted, Matched-Clad Single-mode Fiber

Physical Characteristics

Cladding Diameter	125.0 ± 0.7 µm
Core/Clad Offset	≤ 0.5 µm
Coating Diameter (Uncolored)	245 ± 10 µm
Coating Diameter (Colored)	254 ± 7 µm
Coating/Cladding Concentricity Error, Max.	12 µm
Clad Non-Circularity	≤ 1%

Mechanical Characteristics

Proof Test	100 kpsi (0.69 Gpa)
Coating Strip Force	0.3 - 2.0 lbf (1.3 - 8.9 N)
Fiber Curl	≥ 4 m
Dynamic Fatigue Parameter (nd)	≥ 18
Macrobending, Max. (100 turns)	0.05 dB (1,310/1,550 nm @ 50 mm) 0.05 dB (1,625 nm @ 60 mm)
Macrobending, Max. (1 turn @ 32 mm mandrel)	0.05 dB @ 1,550 nm

Optical Characteristics, Wavelength Specific

	1310 nm	1385 nm	1550 nm
Max. Attenuation, Loose Tube Cable	0.34 dB/km	0.31 dB/km	0.22 dB/km
Max. Attenuation, Tight Buffer Cable	0.50 dB/km	0.50 dB/km	0.50 dB/km
Mode Field Diameter	9.2 ± 0.3 µm	9.6 ± 0.6 µm	10.4 ± 0.5 µm
Group Refractive Index	1.467	1.468	1.468
Dispersion, Max.	3.5 ps/(nm-km) from 1,285 to 1,330 nm		18 ps/(nm-km)

Optical Characteristics, General

Point Defects, Max.	0.10 dB
Cut-off Wavelength	≤ 1260
Zero Dispersion Wavelength	1,302-1,322 nm
Zero Dispersion Slope, Max.	0.090 ps/[km-nm-nm]
Polarization Mode Dispersion	≤ 0.06 ps/sqrt (km)
Link Design Value	
Backscatter Coefficient	-79.6/-82.1 dB @ 1310/1550 nm
Index of Refraction	1.467/1.468 @ 1310/1550 nm

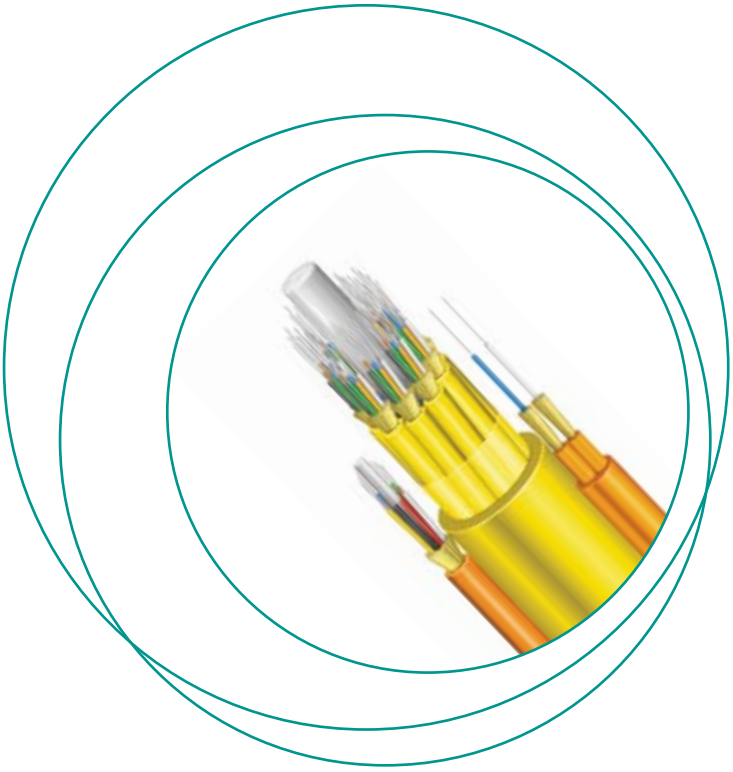
Environmental Characteristics

Temperature Dependence -76°F to 185°F	≤ 0.05 dB
(-60°C to 85°C)	
Temperature Humidity Cycling 14°F to 185°F	≤ 0.05 dB
(-10°C to 85°C) up to 95% RH	
Water Immersion, 73.4°F (23°C)	≤ 0.05 dB
Heat Aging, 185°F (85°C)	≤ 0.05 dB

Distribution Cables

Riser, Plenum and LSZH Rated Designs for Indoor Applications

CommScope Distribution (or Indoor) cables are engineered with three goals in mind - excellent mechanical and optical performance, coupled with superior fire safety ratings. These goals are achieved in a family of cables that meet all critical NEC/CEC requirements for riser or plenum applications while offering resistance to installation and termination stresses.



Our Distribution cables are a perfect example of this achievement. Constructions are engineered to be up to 30% smaller in diameter and up to 50% lighter than comparable products. The result is a compact cable that installs and terminates easily.

All of CommScope's building fiber optic cables meet or exceed performance standards as established by Telcordia Telcordia GR-409, ANSI TIA-568-C.3, ICEA 83-596, ANSI X3.166-1990 & X3T9.5 PMD, FDDI, ATM, Fibre Channel and HIPPI.

We offer several constructions, which include:

Riser and Plenum Distribution cables of up to 144 fibers in a lightweight and compact construction.

Riser Low Smoke/Zero-Halogen Distribution cables of up to 72 fibers which can be used outdoor as well, thus eliminating the need to change cable types at the building entrance.

Riser, Plenum and LSZH Distribution Products

FastFiber® products available in 50 micron, 62.5 micron and single-mode

- Maximum order quantity per customer, per product, per day is 2 kms (or 6,560 ft.)
- Continental U.S. freight allowed on orders of $5000 or more (other than Alaska & Hawaii)
- Minimum cut length is 250 ft.
- Pull and cut charges are FREE on available FastFiber products
- Orders placed by 12 noon Eastern on Friday will be available for shipment the following Monday
- 48 hour turn around
- Reels are non-returnable and non-refundable

FastFiber® Riser & Plenum Distribution Products



Riser Distribution

Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
R-006-DS-6F-FSUOR	.20/5.1	4.1/10.3	2.0/5.1	300/1335	90/400	15	22	700010176
R-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32	700010168
R-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	38	56	760125005
R-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	22	32	760004440

Plenum Distribution

Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
P-006-DS-6F-FSUOR	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009525
P-012-DS-6F-FSUOR	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009400
P-024-DS-6F-FSUOR	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70	760018655
P-006-DS-8W-FSUYL	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	760004333
P-012-DS-8W-FSUYL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	760004358
P-024-DS-8W-FSUYL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47	70	760018630
P-012-DS-5M-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009756
P-006-DS-5L-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009772
P-012-DS-5L-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	21	31	700009731
P-006-DS-5M-FSUAQ	.19/4.8	3.8/9.7	1.9/4.8	300/1335	90/400	15	22	700009798

FastFiber® Low Smoke Zero Halogen



Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	33	49	700211279

FastFiber® FiberGuard® Interlocking Armored Cables

- These cables are protected with an interlocking armor to shield against damage
- Aluminum interlocking armor, with overall jacket
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility



Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
P-012-DZ-8W-FSUYL	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151	760127803
P-006-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	95	142	760127753
P-012-DZ-6F-FSUOR	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151	760127761
P-012-DZ-5L-FSUAQ	.51/12.8	10.1/25.7	7.1/18.0	300/1335	90/400	101	151	760127647

Riser and LSZH
Single Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards
Numbered subunits and color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	R-006-DS-5K-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760012104
12	R-012-DS-5K-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760012112
24	R-024-DS-5K-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018564
6	R-006-DS-5L-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700208143
12	R-012-DS-5L-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700208150
24	R-024-DS-5L-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018556
6	R-006-DS-5M-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700203078
12	R-012-DS-5M-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700203086
24	R-024-DS-5M-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018549
6	R-006-DS-8W-FSUYL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760004424
12	R-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760004440
24	R-024-DS-8W-FSUYL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018515
6	R-006-DS-6F-FSUSL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009509
12	R-012-DS-6F-FSUSL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009384
24	R-024-DS-6F-FSUSL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760018531
6	R-006-DS-6F-FSUOR	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700010176
12	R-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700010168
24	R-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760125005
6	N-006-DS-5K-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760012153
12	N-012-DS-5K-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760012161
24	N-024-DS-5K-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019117
6	N-006-DS-5L-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009780
12	N-012-DS-5L-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009749
24	N-024-DS-5L-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019109
6	N-006-DS-5M-FSUAQ	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	700009806
12	N-012-DS-5M-FSUAQ	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	700009764
24	N-024-DS-5M-FSUAQ	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019091
6	N-006-DS-8W-FSUYL	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760004242
12	N-012-DS-8W-FSUYL	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760004267
24	N-024-DS-8W-FSUYL	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760019091
6	N-006-DS-6F-FSUOR	.20/5.1	3.8/9.5	1.9/4.8	300/1335	90/400	15.2	23	760008469
12	N-012-DS-6F-FSUOR	.24/6.0	4.7/12.1	2.4/6.0	300/1335	90/400	21.7	32.2	760008444
24	N-024-DS-6F-FSUOR	.33/8.4	6.6/16.7	3.3/8.4	300/1335	90/400	37.9	56.4	760001903

Single-mode/Multimode Composite (4-144 Fiber) R-**XXX**-DS-CM-FSU**XX/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

- **5K** LazrSPEED 550, 50µm, multimode, OM4
- **5L** LazrSPEED 300, 50µm, multimode, OM3
- **5M** LazrSPEED 150, 50µm, multimode, OM2+
- **6F** OptiSPEED 62.5/125µm, multimode (OM1)
- **8W** TeraSPEED (single-mode)

ZZ = Standard Jacket Color

- **OR** Orange - Multimode or composite containg multimode
- **AQ** Aqua - LazrSPEED or composite containing multimode
- **SL** Slate - Multimode or composite containing multimode
- **YL** Yellow - Single-mode or composite containing single-mode

Minimum order required for special colors.

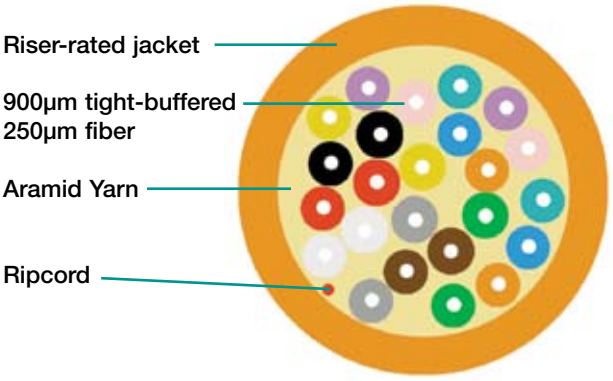
For Composites Only

- **aaa** is replaced with single-mode fiber count
- **AA** is replaced with single-mode type
- **bbb** is replaced by multimode fiber count
- **BB** is replaced by multimode type

Fiber Identification Colors 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

Riser Distribution Single Unit Cables

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70˚ C
Installation Temp.	-20 to 70˚C
Storage Temp.	-40 to 70˚C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Riser and LSZH Multi Unit Distribution

Meets critical NEC/CEC riser (OFNR) safety standards

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
48	R-048-DS-5K-FMUAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760026849
72	R-072-DS-5K-FMUAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760026856
144	R-144-DS-5K-FMUAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760026872
48	R-048-DS-5L-FMUAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700208218
72	R-072-DS-5L-FMUAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700208226
144	R-144-DS-5L-FMUAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760018861
48	R-048-DS-5M-FMUAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700203110
72	R-072-DS-5M-FMUAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700203128
144	R-144-DS-5M-FMUAQ	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760024810
48	R-048-DS-8W-FMUYL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760004473
72	R-072-DS-8W-FMUYL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760004481
144	R-144-DS-8W-FMUYL	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760018887
48	R-048-DS-6F-FMUSL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700009087
72	R-072-DS-6F-FMUSL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700008998
144	R-144-DS-6F-FMUSL	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760055046
48	R-048-DS-6F-FMUOR	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760125021
72	R-072-DS-6F-FMUOR	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760125047
144	R-144-DS-6F-FMUOR	1.03/26.1	20.5/52.2	10.3/26.1	1000/4450	300/1335	350	522	760125054
48	N-048-DS-5L-FMUAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700211121
72	N-072-DS-5L-FMUAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700211139
48	N-048-DS-5M-FMUAQ	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700211089
72	N-072-DS-5M-FMUAQ	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700211097
48	N-048-DS-8W-FMUYL	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	760004291
72	N-072-DS-8W-FMUYL	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	760004309
48	N-048-DS-6F-FMUOR	.63/16.1	12.7/32.2	6.3/16.1	800/3560	240/1068	143	212	700009103
72	N-072-DS-6F-FMUOR	.79/20.0	15.8/40.1	7.9/20.0	1000/4450	300/1335	232	345	700009012

Single-mode/Multimode Composite (48-144 Fiber) R-**XXX**-DS-CM-FMU**ZZ**/**AAaaa**/**BBbbb** Custom design - sizes/specs will vary depending on fiber count

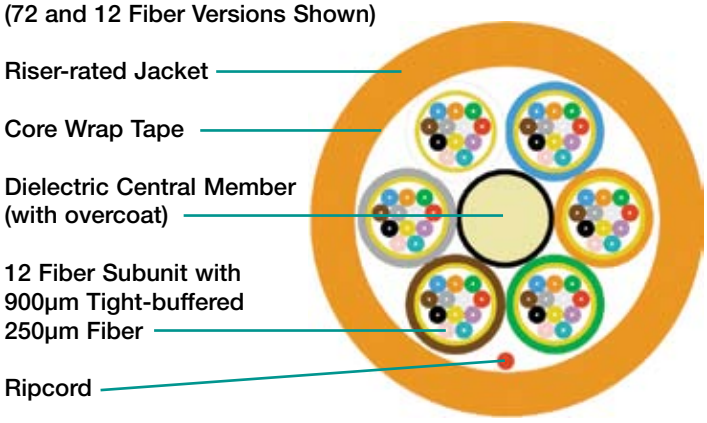
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
ZZ = Standard Jacket Color	**OR** Orange - Multimode or composite containg multimode	**YL** Yellow - Single-mode or composite containing single-mode
	AQ Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**
	SL Slate - Multimode or composite containing multimode	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Riser Distribution Cables

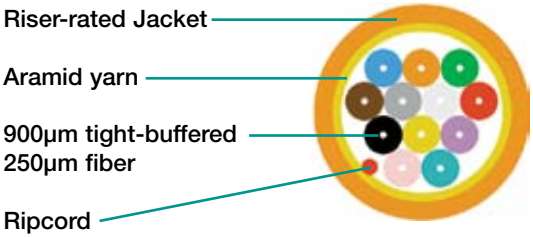
(72 and 12 Fiber Versions Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

12 Fiber Unit



Plenum Single Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards
Numbered subunits and color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	P-006-DS-5K-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	760012138
12	P-012-DS-5K-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	760006411
24	P-024-DS-5K-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018697
6	P-006-DS-5L-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009772
12	P-012-DS-5L-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009731
24	P-024-DS-5L-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018689
6	P-006-DS-5M-FSUAQ	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009798
12	P-012-DS-5M-FSUAQ	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009756
24	P-024-DS-5M-FSUAQ	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018761
6	P-006-DS-8W-FSUYL	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	760004333
12	P-012-DS-8W-FSUYL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	760004358
24	P-024-DS-8W-FSUYL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018630
6	P-006-DS-6F-FSUSL	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009517
12	P-012-DS-6F-FSUSL	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009392
24	P-024-DS-6F-FSUSL	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018663
6	P-006-DS-6F-FSUOR	.19/4.8	3.8/9.5	1.9/4.8	300/1335	90/400	15.1	22.5	700009525
12	P-012-DS-6F-FSUOR	.23/5.8	4.6/11.7	2.3/5.8	300/1335	90/400	20.8	30.9	700009400
24	P-024-DS-6F-FSUOR	.33/8.5	6.7/16.9	3.3/8.5	300/1335	90/400	47.3	70.4	760018655

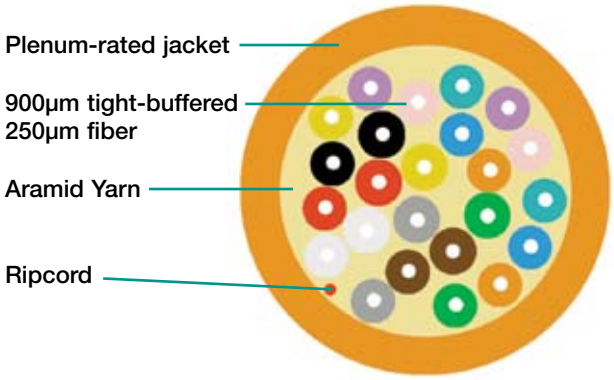
Single-mode/Multimode Composite (6-24 Fiber) P-**XXX**-DS-CM-FSU**XX/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:
XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Plenum Distribution Single Unit Cables

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	0 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Plenum Multi Unit Distribution

Meets critical NEC/CEC plenum (OFNP) safety standards

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./1000'	Weight kg/1000'	Material ID
48	P-048-DS-5K-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760024554
72	P-072-DS-5K-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760024562
144	P-144-DS-5K-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760024869
48	P-048-DS-5L-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700211147
72	P-072-DS-5L-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700211154
144	P-144-DS-5L-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760018879
48	P-048-DS-5M-FMUAQ	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700211105
72	P-072-DS-5M-FMUAQ	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700211113
144	P-144-DS-5M-FMUAQ	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760024836
48	P-048-DS-8W-FMUYL	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760004382
72	P-072-DS-8W-FMUYL	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760004390
144	P-144-DS-8W-FMUYL	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760018895
48	P-048-DS-6F-FMUSL	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	700009095
72	P-072-DS-6F-FMUSL	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	700009004
144	P-144-DS-6F-FMUSL	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760032821
48	P-048-DS-6F-FMUOR	.59/15.1	11.9/30.2	5.9/15.1	800/3560	240/1068	138	205	760124834
72	P-072-DS-6F-FMUOR	.75/19.1	15.1/38.2	7.5/19.1	1000/4450	300/1335	237	353	760028050
144	P-144-DS-6F-FMUOR	.97/24.8	19.5/49.5	9.7/24.8	1000/4450	300/1335	357	531	760124859

Single-mode/Multimode Composite (48-144 Fiber) P-**XXX**-DS-CM-FMU**XX/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

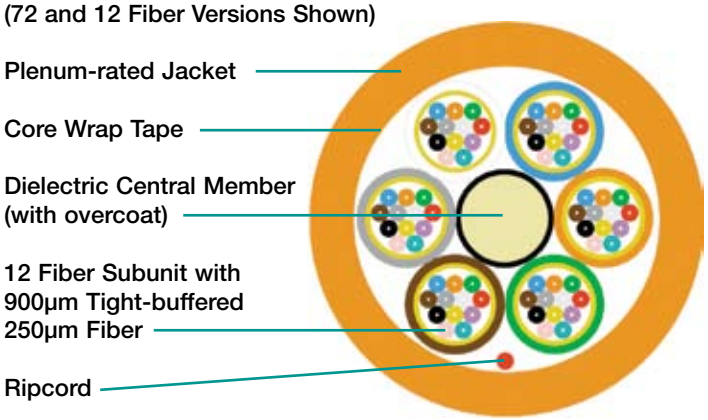
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Plenum Distribution Cables

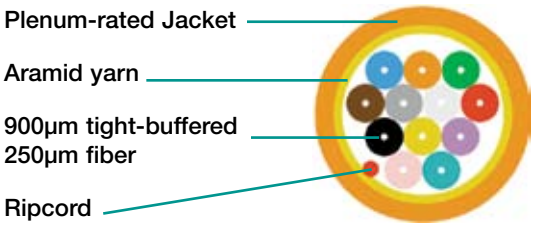
(72 and 12 Fiber Versions Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-20 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Crush Resistance	Exceeds 57 lbf/in (10 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

12 Fiber Unit



FiberGuard® Interlocking Armored Riser and LSZH Distribution Cables



Applications:

- Cables are protected with an interlocking armor to shield against damage.
- Used in Local Area Networks, Factory Automation, Critical Data Lines, Video, Robotics, Commercial
- Construction & Renovations, Heavy Industry and High Security Area applications

Features & Benefis:

- Aluminum interlocking armor with overall jacket.
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility.

R 1	072 2	DZ 3	8W 4	F 5	MU 6	YL 7
Jacket Rating **R** Riser **P** Plenum **N** LSZH for DS Indoor **Z** LSZH for DS Indoor/Outdoor	**Fiber Count** **6 - 144**	**Armor** **DZ** Distribution Aluminum Armor **LZ** Stranded Loose Tube Aluminum Armor **OZ** Indoor/Outdoor Tight Buffered Aluminum Armor	**Fiber Grade** **6F** OptiSPEED Enhanced FDDI 62.5/125µm **5K** 50/125µm, LazrSPEED 550 (OM4) **5L** 50/125µm, LazrSPEED 300 (OM3) **5M** 50/125µm, LazrSPEED 150 (OM2+) **8W** TeraSPEED single-mode	**Jacket Print** **F** Printed in Feet (Standard) **M** Printed in Meters	**Miscellaneous Values** **SU** Single Unit (DZ, OZ) **MU** Multi Unit (DZ, OZ) **12** 12 Fibers per Tube (LZ)	**Jacket Colors** **BK** Black, Indoor/Outdoor **OR** Orange, 62.5µm Multimode & Composite **SL** Slate, Multimode or Composite Containing Multimode **YL** Yellow, Single-mode **AQ** Aqua, 50µm LazrSPEED & LazrSPEED Composite

Fiber identification colors follow the ANSI/TIA-568-C.3 Color Code.

Visit www.commscope.com for FiberGuard product specification sheets.

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	R-006-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127506
12	R-012-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127514
24	R-024-DZ-5K-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760126524
48	R-048-DZ-5K-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760126540
72	R-072-DZ-5K-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760126557
144	R-144-DZ-5K-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127456
6	R-006-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127175
12	R-012-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127183
24	R-024-DZ-5L-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127381
48	R-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127209
72	R-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127217
144	R-144-DZ-5L-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127464
6	R-006-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127225
12	R-012-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127233
24	R-024-DZ-5M-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127415
48	R-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127266
72	R-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127274
144	R-144-DZ-5M-FMUAQ	1.36/34.4	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127472
6	R-006-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760127308
6	R-006-DZ-6F-FSUSL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760126623
12	R-012-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760127316
24	R-024-DZ-8W-FSUYL	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760127373
48	R-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760127357
72	R-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760127480
144	R-144-DZ-8W-FMUYL	1.26/31.9	27.1/68.8	19.0/48.2	300/1335	85 N/mm	558	830	760127472
6	N-006-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125187
12	N-012-DZ-5K-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125195
24	N-024-DZ-5K-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125211
6	N-006-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125245
12	N-012-DZ-5L-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125260
24	N-024-DZ-5L-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125286
48	N-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125302
72	N-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125310
6	N-006-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125344
12	N-012-DZ-5M-FSUAQ	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125351
24	N-024-DZ-5M-FSUAQ	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125377
48	N-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125393
72	N-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125401
6	N-006-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	92	136	760125518
12	N-012-DZ-8W-FSUYL	0.51/12.8	10.1/25.7	7.1/18.0	300/1335	85 N/mm	98	146	760125534
24	N-024-DZ-8W-FSUYL	0.61/15.4	12.1/30.7	8.5/21.5	300/1335	85 N/mm	131	195	760125542
48	N-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	294	438	760125567
72	N-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	397	591	760125575

FiberGuard® Interlocking Armored Plenum Distribution Cables

Applications:

- Cables are protected with an interlocking armor to shield against damage.
- Used in Local Area Networks, Factory Automation, Critical Data Lines, Video, Robotics, Commercial Construction & Renovations, Heavy Industry and High Security Area applications



Features & Benefits:

- Aluminum interlocking armor with overall jacket.
- NEC/CEC compliant
- Outstanding mechanical protection for sensitive cables combined with excellent flexibility.

P 1	072 2	DZ 3	8W 4	F 5	MU 6	YL 7
Jacket Rating **R** Riser **P** Plenum **Z** Low Smoke Zero Halogen	**Fiber Count** **6 - 144**	**Armor** **DZ** Distribution Aluminum Armor **LZ** Stranded Loose Tube Aluminum Armor **OZ** Indoor/Outdoor Tight Buffered Aluminum Armor	**Fiber Grade** **6F** OptiSPEED Enhanced FDDI 62.5/125µm **5K** 50/125µm, LazrSPEED 550 (OM4) **5L** 50/125µm, LazrSPEED 300 (OM3) **5M** 50/125µm, LazrSPEED 150 (OM2+) **8W** TeraSPEED single-mode	**Jacket Print** **F** Printed in Feet (Standard) **M** Printed in Meters	**Miscellaneous Values** **SU** Single Unit (DZ, OZ) **MU** Multi Unit (DZ, OZ) **12** 12 Fibers per Tube (LZ)	**Jacket Colors** **BK** Black, Indoor/Outdoor **OR** Orange, 62.5µm Multimode & Composite **SL** Slate, Multimode or Composite Containing Multimode **YL** Yellow, Single-mode **AQ** Aqua, 50µm LazrSPEED & LazrSPEED Composite

Fiber identification colors follow the ANSI/TIA-568-C.2 Color Code.

Visit www.commscope.com for FiberGuard product specification sheets.

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	P-006-DZ-5K-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760128181
12	P-012-DZ-5K-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760128017
24	P-024-DZ-5K-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127910
48	P-048-DZ-5K-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760125971
72	P-072-DZ-5K-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760128108
144	P-144-DZ-5K-FMUAQ	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760127927
6	P-006-DZ-5L-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127639
12	P-012-DZ-5L-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127647
24	P-024-DZ-5L-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127902
48	P-048-DZ-5L-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127670
72	P-072-DZ-5L-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127688
6	P-006-DZ-5M-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127696
12	P-012-DZ-5M-FSUAQ	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127704
24	P-024-DZ-5M-FSUAQ	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127878
48	P-048-DZ-5M-FMUAQ	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127738
72	P-072-DZ-5M-FMUAQ	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127746
144	P-144-DZ-5M-FMUAQ	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760127993
6	P-006-DZ-6F-FSUSL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760126011
6	P-006-DZ-8W-FSUYL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	95	142	760127795
12	P-012-DZ-8W-FSUYL	0.51/12.8	10.1/27.5	7.1/18.0	225/1001	90 N/mm	101	151	760127803
24	P-024-DZ-8W-FSUYL	0.69/17.4	13.7/34.8	9.6/24.4	300/1335	90 N/mm	206	307	760127886
48	P-048-DZ-8W-FMUYL	0.91/23.0	18.1/46.0	12.7/32.2	300/1335	85 N/mm	302	449	760127837
72	P-072-DZ-8W-FMUYL	1.11/28.1	22.1/56.1	15.5/39.3	300/1335	85 N/mm	418	622	760127845
144	P-144-DZ-8W-FMUYL	1.31/33.1	26.1/66.3	18.3/46.4	300/1335	90 N/mm	574	854	760128009

Indoor/Outdoor Cables (OFNR & OFNP)

CommScope indoor/outdoor tight buffer cables are designed to meet the rigors of outside plant while allowing for direct connectorization of the individual fibers, yet meet the National Electric Code/Canadian Electric Code (NEC/CEC) requirement of Optical Fiber Non-conductive Riser (OFNR).

CommScope indoor/outdoor loose tube cables are a unique design - they are made to withstand the typical rigors of the outside plant environment (the buffer tubes are filled with a compound that blocks moisture flow while protecting the fiber), yet are made of materials that permit them to meet OFNR and OFNP requirements.

Indoor/outdoor cables allow a cable to be run from outside a building to the inside without changing cable types, thus avoiding the extra time and labor of an additional splice point. Their riser or plenum listing makes this possible.

Another technical achievement in CommScope's indoor/outdoor cables is the use of our Arid-Core dry water-blocking technology. Once exposed to moisture, Arid-Core rapidly swells to form a gel that stops water penetration. The result is a craft-friendly cable that reduces termination time, effort and cost.



We offer several constructions, which include:

Triathlon® Riser and Low Smoke/Zero-Halogen (LSZH) Distribution cables of up to 72 tight buffered fibers. Cable meets OFNR-LS listing requirements per UL-1685.

Plenum Distribution cables up to 144 tight buffered fibers. Cable meets OFNP listing requirement per NFPA-262.

Riser Stranded Loose Tube cables of up to 288 fibers in a dielectric construction. Also available in Heavy Duty version (LH).

Plenum Stranded Loose Tube cables of 4-144 fibers in a dielectric all-dry construction. Cable meets OFNP listing requirements per NFPA-262.

Central Tube cables of up to 24 fibers in a robust all dielectric design.

Triathlon® Indoor/Outdoor Riser and LSZH Single Unit Distribution

Features and Benefits:

- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards
- Riser rating eliminates splice points at the building entrance
- Arid-Core water blocking technology helps protect fibers from moisture
- Low-smoke zero-halogen gives added protection to building occupants and equipment
- Tight buffered construction reduces installation cost. Color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./1000'	Weight kg/1000'	Material ID
6	Z-006-DS-5K-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760039974
12	Z-012-DS-5K-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760006650
24	Z-024-DS-5K-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070300
6	Z-006-DS-5L-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760039966
12	Z-012-DS-5L-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700210982
24	Z-024-DS-5L-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070292
6	Z-006-DS-5M-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760046631
12	Z-012-DS-5M-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700211014
24	Z-024-DS-5M-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070284
6	Z-006-DS-8W-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760009753
12	Z-012-DS-8W-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700004184
24	Z-024-DS-8W-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070276
6	Z-006-DS-6F-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760054973
12	Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700211279
24	Z-024-DS-6F-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760070318
EMEA Only									
12	Z-012-DS-5K-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760007492
24	Z-024-DS-5K-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066837
6	Z-006-DS-5L-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760015289
12	Z-012-DS-5L-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700010119
24	Z-024-DS-5L-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066829
6	Z-006-DS-5M-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760035790
12	Z-012-DS-5M-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760002170
24	Z-024-DS-5M-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066811
6	Z-006-DS-8W-FSUBK	.22/5.5	4.4/11.1	2.2/5.5	300/1335	90/400	17.6	26.3	760011049
12	Z-012-DS-8W-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	760004218
24	Z-024-DS-8W-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066795
12	Z-012-DS-6F-FSUBK	.28/7.2	5.6/14.2	2.8/7.1	400/1780	120/534	32.6	48.6	700010390
24	Z-024-DS-6F-FSUBK	.34/8.7	6.8/17.4	3.4/8.7	300/1335	90/400	45.2	67.3	760066803

Single-mode/Multimode Composite (6-24 Fiber) Z-**XXX**-DS-CM-FSU**XX/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

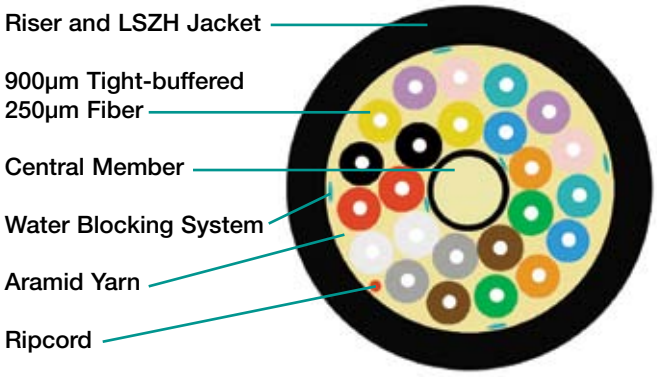
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Triathlon Riser and LSZH Indoor/Outdoor Single Unit Distribution Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Triathlon® Indoor/Outdoor Riser and LSZH Multi Unit Distribution

Features and Benefits:

- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC riser (OFNR and OFN-LS) safety standards
- Riser rating eliminates splice points at the building entrance
- Arid-Core water blocking technology helps protect fibers from moisture
- Low-smoke zero-halogen gives added protection to building occupants and equipment
- Tight buffered construction reduces installation cost. Numbered subunits and color-coded fibers help ease installation



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
48	Z-048-DS-5K-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760056978
72	Z-072-DS-5K-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760123463
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760010371
72	Z-072-DS-5L-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760019612
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760090309
72	Z-072-DS-5L-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760067595
EMEA Only									
72	Z-072-DS-5K-FMUBK	.95/24.1	19.0/48.2	9.5/24.1	1000/4450	300/1335	320.5	477.0	760032441
48	Z-048-DS-5L-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760012013
48	Z-048-DS-8W-FMUBK	.80/20.2	16.0/40.6	8.0/20.3	800/3560	240/1068	206.6	307.4	760068726

Single-mode/Multimode Composite (48-72 Fiber) Z-**XXX**-DS-CM-FSU**XX/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade

5K LazrSPEED 550, 50µm, multimode, OM4
5L LazrSPEED 300, 50µm, multimode, OM3
5M LazrSPEED 150, 50µm, multimode, OM2+
6F OptiSPEED 62.5/125µm, multimode (OM1)
8W TeraSPEED (single-mode)

ZZ = Standard Jacket Color

OR Orange - Multimode or composite containg multimode
AQ Aqua - LazrSPEED or composite containing multimode
SL Slate - Multimode or composite containing multimode
YL Yellow - Single-mode or composite containing single-mode
Minimum order required for special colors.

For Composites Only

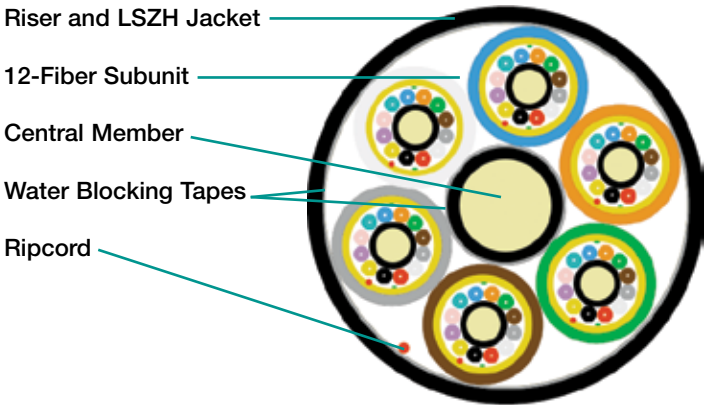
aaa is replaced with single-mode fiber count
AA is replaced with single-mode type
bbb is replaced by multimode fiber count
BB is replaced by multimode type

Fiber Identification Colors

1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

Multi-Unit Triathlon Riser and LSZH Indoor/Outdoor-Distribution Cable

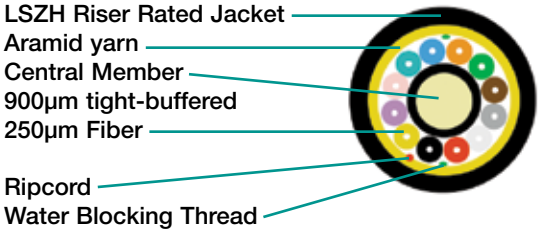
(72 and 12 Fiber Versions Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

12 Fiber Unit



Indoor/Outdoor Single Unit Plenum Distribution

Features and Benefits:

- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC Plenum (OFNP) safety standards
- Arid-Core water blocking technology helps protect fibers from moisture
- Designed for ease of handling and termination



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	P-006-OD-5K-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036426
12	P-012-OD-5K-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037432
24	P-024-OD-5K-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037457
6	P-006-OD-5L-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036418
12	P-012-OD-5L-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037374
24	P-024-OD-5L-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037390
6	P-006-OD-5M-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036400
12	P-012-OD-5M-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037317
24	P-024-OD-5M-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037333
6	P-006-OD-8W-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036384
12	P-012-OD-8W-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037192
24	P-024-OD-8W-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037218
6	P-006-OD-6F-FSUBK	0.21/5.4	4.3/10.8	2.1/5.4	300/1335	90/400	18.7	27.9	760036392
12	P-012-OD-6F-FSUBK	0.27/6.9	5.4/13.8	2.7/6.9	300/1335	90/400	36.0	53.6	760037259
24	P-024-OD-6F-FSUBK	0.31/7.9	6.3/15.9	3.1/7.9	300/1335	90/400	41.4	61.6	760037275

Single-mode/Multimode Composite (6-12 Fiber) P-**XXX**-OD-CM-FSU**BK/AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

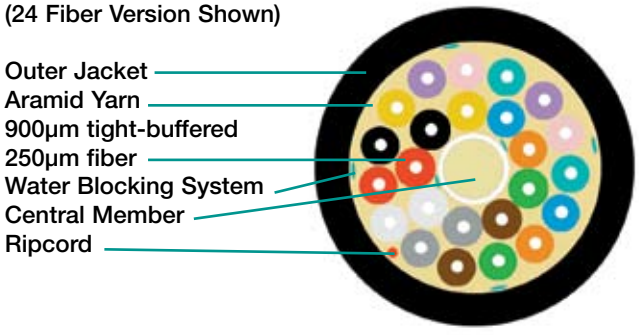
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Indoor/Outdoor Single Unit Plenum Distribution Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 25 cycles
Twist/Bend	Exceeds

Indoor/Outdoor Multi Unit Plenum Distribution

Features and Benefits:



- Black jackets are UV-stable for outdoor use yet meet critical NEC/CEC Plenum (OFNP) safety standards
- Arid-Core water blocking technology helps protect fibers from moisture
- Designed for ease of handling and termination

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
48	P-048-OD-5K-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038141
72	P-072-OD-5K-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038166
144	P-144-OD-5K-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038182
48	P-048-OD-5L-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038083
72	P-072-OD-5L-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038109
144	P-144-OD-5L-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038125
48	P-048-OD-5M-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760038026
72	P-072-OD-5M-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760038042
144	P-144-OD-5M-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038067
48	P-048-OD-8W-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760037903
72	P-072-OD-8W-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760037929
144	P-144-OD-8W-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760037945
48	P-048-OD-6F-FMUBK	.74/18.9	14.9/37.8	7.4/18.9	800/3560	240/1068	222	330	760037690
72	P-072-OD-6F-FMUBK	.93/23.7	18.7/47.4	9.3/23.7	1000/4450	300/1335	357	532	760037986
144	P-144-OD-6F-FMUBK	1.19/30.3	23.8/60.6	11.9/30.3	1000/4450	300/1335	558	831	760038000

Single-mode/Multimode Composite (48-144 Fiber) P-**XXX**-OD-CM-FMU**XX**/**AAaaa**/**BBbbb** Custom design - sizes/specs will vary depending on fiber count

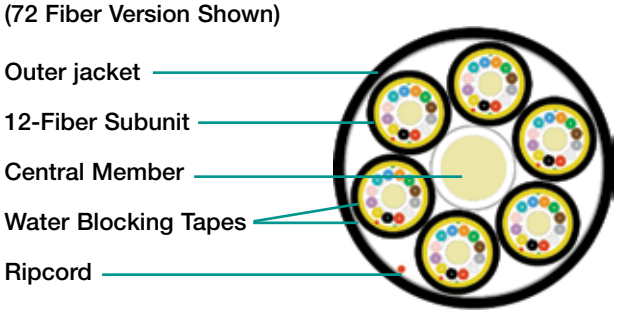
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Indoor/Outdoor Multi Unit Plenum Distribution Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 70°C
Storage Temp.	-40 to 75°C
Crush Resistance	Exceeds 126 lbf/in (22 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 100 cycles
Twist/Bend	Exceeds

Indoor/Outdoor Gel-free Stranded Loose Tube Riser

All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance. Arid-Core water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 2.5mm.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
12	R-012-LN-5K-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760101295
24	R-024-LN-5K-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760101303
72	R-072-LN-5K-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760101329
288	R-288-LN-5K-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760128199
24	R-024-LN-5L-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086413
6	R-006-LN-8W-F06BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086355
12	R-012-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086371
24	R-024-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086405
48	R-048-LN-8W-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086470
72	R-072-LN-8W-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760086538
144	R-144-LN-8W-F12BK/25D	.68/17.2	13.5/34.4	6.8/17.2	607/2700	440	176	262	760086652
288	R-288-LN-8W-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760086710
6	R-006-LN-6F-F06BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086348
12	R-012-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086363
24	R-024-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086397
48	R-048-LN-6F-F12BK/25D	.45/11.5	9.0/23.0	4.5/11.5	607/2700	440	79	118	760086462
72	R-072-LN-6F-F12BK/25D	.47/11.9	9.3/23.8	4.7/11.9	607/2700	440	85	127	760086520
144	R-144-LN-6F-F12BK/25D	.68/17.2	13.5/34.4	6.8/17.2	607/2700	440	176	262	760086645
288	R-288-LN-6F-F12BK/25D	.79/20.2	15.9/40.4	7.9/20.2	607/2700	440	208	310	760086702

Single-mode/Multimode Composite (6-288 Fiber) R-**XXX**-LN-CM-FZZBK/**AAaaa/BBbbb/25D** Custom design - sizes/specs will vary depending on fiber count

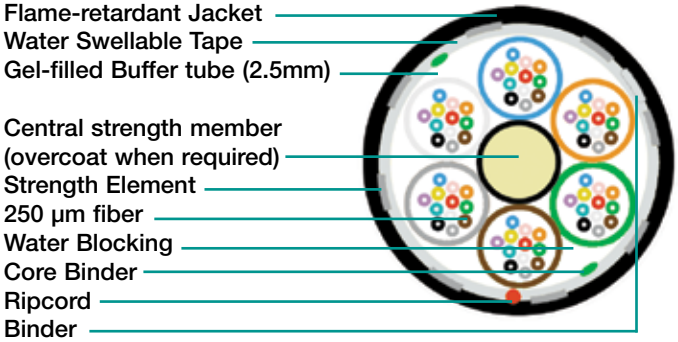
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Indoor/Outdoor Gel-free Stranded Loose

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Heavy Duty Indoor/Outdoor Gel-free Stranded Loose Tube Riser

All meet critical NEC/CEC riser (OFNR) safety standards, eliminating the need for splice point at building entrance. Arid-Core water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 3mm



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	Weight kg/1000'	Material ID
6	R-006-LH-5K-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086850
6	R-006-LH-5L-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760122200
6	R-006-LH-8W-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	
12	R-012-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086876
24	R-024-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086892
48	R-048-LH-8W-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086918
72	R-072-LH-8W-F12BK/25D	.50/12.7	10.0/25.4	5.0/12.7	607/2700	440	103	154	760086934
144	R-144-LH-8W-F12BK/25D	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	201	300	760086959
6	R-006-LH-6F-F06BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086843
12	R-012-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086868
24	R-024-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086884
48	R-048-LH-6F-F12BK/25D	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	97	144	760086900
72	R-072-LH-6F-F12BK/25D	.50/12.7	10.0/25.4	5.0/12.7	607/2700	440	103	154	760086926
144	R-144-LH-6F-F12BK/25D	.70/17.9	14.1/35.8	7.0/17.9	607/2700	440	201	300	760086942

Single-mode/Multimode Composite (6-288 Fiber)

R-**XXX**-LH-CM-FZZBK/**AAaaa/BBbbb/25D** Custom design - sizes/specs will vary depending on fiber count

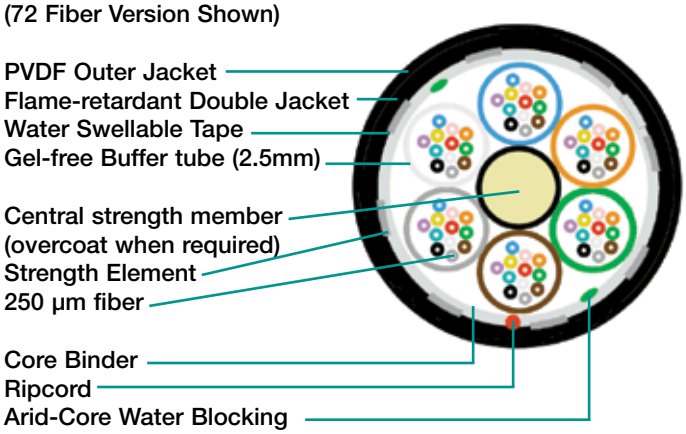
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4 **5L** LazrSPEED 300, 50µm, multimode, OM3 **5M** LazrSPEED 150, 50µm, multimode, OM2+	**6F** OptiSPEED 62.5/125µm, multimode (OM1) **8W** TeraSPEED (single-mode)
ZZ = Standard Jacket Color	**OR** Orange - Multimode or composite containg multimode **AQ** Aqua - LazrSPEED or composite containing multimode **SL** Slate - Multimode or composite containing multimode	**YL** Yellow - Single-mode or composite containing single-mode **Minimum order required for special colors.**
For Composites Only	**aaa** is replaced with single-mode fiber count **AA** is replaced with single-mode type	**bbb** is replaced by multimode fiber count **BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Heavy Duty Indoor/Outdoor Gel-free Stranded Loose

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Mini LSZH Indoor/Outdoor Armored Loose Tube Cable



The CommScope Low Smoke Zero Halogen (LSZH) Armored Mini Indoor/ Outdoor Cable provides all the benefits of loose-tube indoor cables, along with the durability for use in outdoor environments in cable ducts. The LSZH indoor/outdoor loose tube cable is used as a transition cable from outdoor to indoor applications. Since it can be used outdoors as well as indoors, transition splicing is eliminated at the building entrance.

Features & Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Stranded loose tube cable contains 2.0mm gel-filled buffers each with up to twelve 250 micron optical fibers
- Buffer tubes are SZ stranded around the dielectric central member for strain-free operation and easier mid-span access
- Optical fibers and buffer tubes are color coded for easy identification
- Waterblocked cable core contains super-absorbent polymer yarns and tapes to prevent damage from water
- UV-resistant jacket for use outdoors
- Fiber counts from 6-144
- Available with single-mode and multimode fibers
- Meets flame ratings per IEC 60332-1, IEC 60332-3, and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	Z-006-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130237
12	Z-012-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122085
24	Z-024-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130245
72	Z-072-LA-5L-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760130252
12	Z-012-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122028
24	Z-024-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122036
48	Z-048-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122051
72	Z-072-LA-8W-X12BK/20G	.48/12.3	4.8/12.3	9.7/24.6	607/2700	800	125	186	760122069
144	Z-144-LA-8W-X12BK/20G	.63/16.1	6.3/16.1	12.7/32.2	607/2700	800	204	304	760122077

Single-mode/Multimode Composite (6-288 Fiber) Z-**XXX**-LA-XY-XZZBK/20G/**AAaaa/BBbbb/25D** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Mini LSZH Indoor/Outdoor Loose Tube Cable

The CommScope Low Smoke Zero Halogen (LSZH) Indoor/ Outdoor Cable provides all the benefits of loose-tube indoor cables, along with the durability for use in outdoor environments in cable ducts.



The LSZH indoor/outdoor loose tube cable is used as a transition cable from outdoor to indoor applications. Since it can be used outdoors as well as indoors, transition splicing is eliminated at the building entrance.

Features & Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Stranded loose tube cable contains 2.0mm gel-filled buffers each with up to twelve 250 micron optical fibers
- Buffer tubes are SZ stranded around the dielectric central member for strain-free operation and easier mid-span access
- Optical fibers and buffer tubes are color coded for easy identification
- Waterblocked cable core contains super-absorbent polymer yarns and tapes to prevent damage from water
- UV-resistant jacket for use outdoors
- Fiber counts from 6-144
- Available with single-mode and multimode fibers
- Meets flame ratings per IEC 60332-1, IEC 60332-3, and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	Z-006-LN-5L-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091827
12	Z-012-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091835
24	Z-024-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091843
48	Z-048-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760122119
72	Z-072-LN-5L-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760100198
6	Z-006-LN-8W-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091728
12	Z-012-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091736
24	Z-024-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091744
48	Z-048-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091769
72	Z-072-LN-8W-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760091785
144	Z-144-LN-8W-F12BK/20G	.58/14.7	6.4/16.2	12.8/32.4	607/2700	800	180	268	760091819
6	Z-006-LN-6F-F06BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760124685
12	Z-012-LN-6F-F12BK/20G	.43/11.0	5.2/13.1	10.2/26.1	607/2700	800	115	171	760111286

Single-mode/Multimode Composite (6-288 Fiber) Z-**XXX**-LN-CM-FZZBK/**AAaaa/BBbbb/20G** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4 **5L** LazrSPEED 300, 50µm, multimode, OM3 **5M** LazrSPEED 150, 50µm, multimode, OM2+	**6F** OptiSPEED 62.5/125µm, multimode (OM1) **8W** TeraSPEED (single-mode)
ZZ = Standard Jacket Color	**OR** Orange - Multimode or composite containg multimode **AQ** Aqua - LazrSPEED or composite containing multimode **SL** Slate - Multimode or composite containing multimode	**YL** Yellow - Single-mode or composite containing single-mode **Minimum order required for special colors.**
For Composites Only	**aaa** is replaced with single-mode fiber count **AA** is replaced with single-mode type	**bbb** is replaced by multimode fiber count **BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Mini LSZH Indoor/Outdoor HTS Stranded Loose Tube

Features and Benefits:



- High tensile strength and crush resistance ideal for harsh environments that require all-dielectric construction
- Capable of withstanding up to 1000 pounds (4450 N) of tensile force
- Improved e-glass design for enhanced rodent resistance
- Cables are constructed with 2.0mm buffer tubes, resulting in a reduced cable diameter and weight, and improved handling
- FRPE (LSZH) Jacket IEC 60332-1, IEC 60332-3, IEC 61034-2, IEC 60754-1, IEC 60754-2
- NEC Type: OFNR-LS (ETL) and C(ETL)
- Fiber Counts 6 – 144 (72 fiber count shown below)

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Load lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
12	Z-012-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100727
24	Z-024-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100735
48	Z-048-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100743
72	Z-072-LN-8W-F12BK/20G/HTS	0.51/13.1	10.3/26.2	5.1/13.1	1000/4448	115	171	760100750
144	Z-144-LN-8W-F12BK/20G/HTS	.64/16.2	12.7/32.4	6.4/16.2	1000/4448	180	268	760100768

Single-mode/Multimode Composite (2-144 Fiber) Z-**XXX**-LN-8W-FZZBK/20G/HTS/**AAaaa/BBbbb/25D** Custom design - sizes/specs will vary depending on fiber count

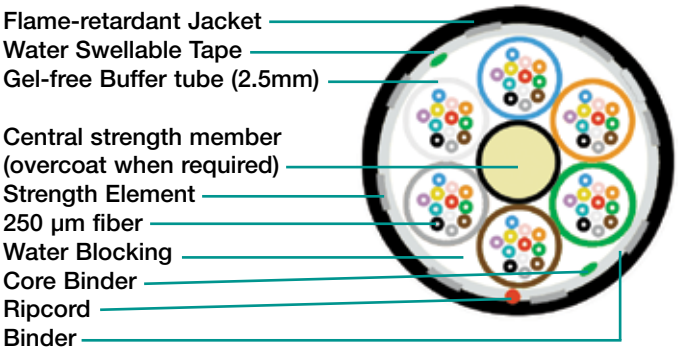
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Mini Indoor/Outdoor Stranded Loose Tube Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	22 N/mm
Impact Resistance	2.94 N-mm
Flexing	35 cycles
Twist/Bend	10 cycles/<300 mm

LSZH All-Dielectric Drop Indoor/Outdoor Cable

The CommScope LSZH All-Dielectric Indoor/Outdoor cables are designed to deliver the performance required for installation in indoor and outside plant environments. The central tube design, utilizing flexible radial strength elements, provides for an optimum solution for point-to-point connectivity where a small and flexible cable is desired. This cable is suitable for direct burial or aerial lashed applications in the outside plant environment. The cable can also be installed in indoor environments, bypassing the need for a cable transition of cable media at the building entrance.



Features and Benefits:

- Low smoke zero halogen cable suitable for use in indoor/outdoor applications
- Central tube cable contains a single gel-filled buffer tube containing up to twenty four 250 micron optical fibers
- Flexible radial strength members eliminate preferred bend radius of traditional central tube cable constructions
- Provides full water blocking protection for outside plant applications
- UV-resistant jacket suitable for use outdoors
- Fiber counts from 2-24
- Available with single-mode and multimode fiber types
- Compatible with all SYSTIMAX G2 Fiber Connectivity
- Meets flame ratings per IEC 60332-1, IEC 60332-3 and IEC 61034

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load Short Term lbs./Newton	Max. Tensile Load Long Term lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	Z-006-DN-5L-F06BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083360
12	Z-012-DN-5L-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760111369
24	Z-024-DN-5L-F12BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083386
6	Z-006-DN-8W-F06BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083303
12	Z-012-DN-8W-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760111337
24	Z-024-DN-8W-F12BK	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760083329
6	Z-006-DN-6F-F06BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760113027
12	Z-012-DN-6F-F12BK/20G	0.32/8.2	16.4/3.5	8.3/3.3	300/1334	90/400	51	76	760113035

Single-mode/Multimode Composite (6-288 Fiber) Z-**XXX**-DN-XY-FXXBK/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
ZZ = Standard Jacket Color	**OR**	Orange - Multimode or composite containg multimode	**YL**	Yellow - Single-mode or composite containing single-mode
	AQ	Aqua - LazrSPEED or composite containing multimode	**Minimum order required for special colors.**	
	SL	Slate - Multimode or composite containing multimode		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

Indoor/Outdoor Stranded Loose Tube Plenum

Features and Benefits:

- Loose tube cable utilizing Arid-Core and dry tube technology
- Temperature range is fully outside plant rated
- Water blocking prevents moisture migration
- Meets NEC requirements for OFNP rating
- Combines application spaces of building interconnect and plenum in a campus environment
- Cable is suitable for direct burial, duct, or aerial installations
- Dielectric design is lightweight, easy to access and does not require grounding
- Suitable for harsh environment installations
- Terminates using standard loose tube tools and procedures



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	P-006-LN-5K-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760106799
12	P-012-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760107805
24	P-024-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760106807
48	P-048-LN-5K-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760103531
72	P-072-LN-5K-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760105536
6	P-006-LN-5L-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094870
12	P-012-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094912
24	P-024-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094953
48	P-048-LN-5L-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094995
72	P-072-LN-5L-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095026
144	P-144-LN-5L-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095083
6	P-006-LN-5M-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094862
12	P-012-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094904
24	P-024-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094946
12	P-012-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094904
48	P-048-LN-5M-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094987
6	P-006-LN-8W-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094847
12	P-012-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094888
24	P-024-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094920
48	P-048-LN-8W-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094961
72	P-072-LN-8W-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095000
144	P-144-LN-8W-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095067
6	P-006-LN-6F-F06BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094854
12	P-012-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094896
24	P-024-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094983
48	P-048-LN-6F-F12BK/25D	.38/9.7	7.6/19.4	3.8/9.7	607/2700	440	63	94	760094979
72	P-072-LN-6F-F12BK/25D	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	69	103	760095018
144	P-144-LN-6F-F12BK/25D	.60/15.3	12.0/30.6	6.0/15.3	607/2700	440	166	247	760095075

Single-mode/Multimode Composite (6-288 Fiber) P-**XXX**-LN-CM-FZZBK/**AAaaa/BBbbb/25D** Custom design - sizes/specs will vary depending on fiber count

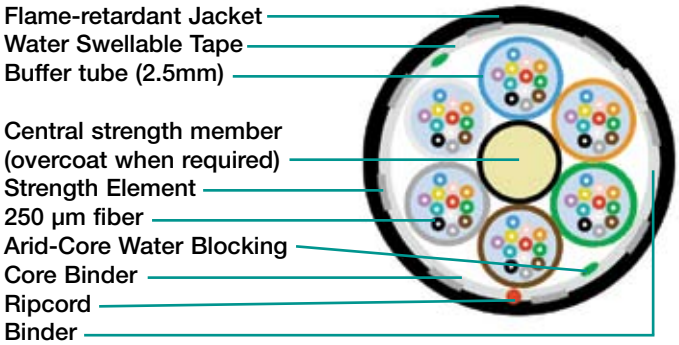
Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4 **5L** LazrSPEED 300, 50µm, multimode, OM3 **5M** LazrSPEED 150, 50µm, multimode, OM2+	**6F** OptiSPEED 62.5/125µm, multimode (OM1) **8W** TeraSPEED (single-mode)
ZZ = Standard Jacket Color	**OR** Orange - Multimode or composite containg multimode **AQ** Aqua - LazrSPEED or composite containing multimode **SL** Slate - Multimode or composite containing multimode	**YL** Yellow - Single-mode or composite containing single-mode **Minimum order required for special colors.**
For Composites Only	**aaa** is replaced with single-mode fiber count **AA** is replaced with single-mode type	**bbb** is replaced by multimode fiber count **BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Indoor/Outdoor Stranded Loose Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds 4.34 lbf-ft (5.88 N-m)
Flexing	Exceeds 25 cycles
Twist/Bend	Exceeds

Light Duty Riser Indoor/Outdoor Cable



The Light Duty Indoor/Outdoor Fiber Optic Cable provides a cost effective fiber cabling option, while still allowing connectivity ease and superior mid-span accessibility. The cable is designed to endure the rigors of outdoor use, but can also be run directly in riser airspace to eliminate a splice point at the building entrance. This cable provides seamless migration from the campus to the premises bypassing termination requirements at the building entrance, thereby reducing the total cost of ownership. These low-tensile strength OFNR Indoor/Outdoor cables are designed for installation loads up to 300 lbs (1,335 N) short term and long term loads up to 90 lbs (400 N), (replacing traditional 600 lb cables) making it ideal for Enterprise Campus applications.

The cable's construction utilizes 2.5 mm gel-free tubes that eliminate the use of messy filling gel. All cables are qualified to the requirements of ANSI/ICEA S-87-640 standard for Outside Plant Fiber Cable and ANSI/ICEA S-104-696-2001 standards for Indoor/Outdoor Fiber Cable.

Features and Benefits:

- Fiber Counts 2 – 48 (48 fiber count shown in picture)
- 2.5 mm gel free buffer tubes
- Arid-Core Construction
- Stranded Loose Tube Construction
- Meets ANSI/ICEA S-87-640 and ANSI/ICEA S-104-696-2001 standards
- Operational Temperature -40° to 158° F (-40° to +70° C)

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Load lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
2	R-002-LN-5K-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112649
6	R-006-LN-5K-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112656
12	R-012-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112664
24	R-024-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112672
36	R-036-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112680
48	R-048-LN-5K-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112698
2	R-002-LN-5L-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112581
6	R-006-LN-5L-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112599
12	R-012-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112607
24	R-024-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112615
36	R-036-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112623
48	R-048-LN-5L-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112631
2	R-002-LN-5M-F02BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112524
6	R-006-LN-5M-F06BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112532
12	R-012-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112540
24	R-024-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112557
36	R-036-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112565
48	R-048-LN-5M-F12BK/25D/LTS	.41/10.4	10.4/4.1	20.9/8.2	300/1335	63	94	760112573

Single-mode/Multimode Composite (2-48 Fiber) R-**XXX**-LN-CM-FZZBK/25D/LTS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count

XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4 **5L** LazrSPEED 300, 50µm, multimode, OM3 **5M** LazrSPEED 150, 50µm, multimode, OM2+	**6F** OptiSPEED 62.5/125µm, multimode (OM1) **8W** TeraSPEED (single-mode)
ZZ = Standard Jacket Color	**OR** Orange - Multimode or composite containg multimode **AQ** Aqua - LazrSPEED or composite containing multimode **SL** Slate - Multimode or composite containing multimode	**YL** Yellow - Single-mode or composite containing single-mode **Minimum order required for special colors.**
For Composites Only	**aaa** is replaced with single-mode fiber count **AA** is replaced with single-mode type	**bbb** is replaced by multimode fiber count **BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Outside Plant Cables

All CommScope Outside Plant (OSP) cables are designed and manufactured to provide outstanding mechanical and optical performance. This cable family uses a loose tube construction to provide multiple levels of protection for the fiber strands.

Our heavy-duty products are engineered to withstand the rigors of environmental extremes.

We offer several constructions, which include:

Stranded Loose Tube, using reverse oscillation stranding, in dielectric and armored constructions, up to 576 fibers. Available with water-blocking gel-filled buffer tubes or in an all dry buffer tube construction up to 288 fibers.

Central Tube, armored and dielectric up to 96 fibers arranged in easy-to-handle color-coded 12 fiber groups

Drop, small lightweight construction to allow ease of installation



CommScope's All Dry Outside Plant Cable

- All dry construction removes filling gels and flooding compounds from the cable
- Reduced diameter buffer tubes utilized in the cable constructions
- Robust cable design

Designed to deliver the same proven quality and performance offered in all of our Uniprise Solutions. The armored and all-dieletric designs are suitable for direct buried, aerial and conduit applications. The construction features the use of dry water blocking elements and reduced diameter buffer tubes, resulting in a light weight, reduced diameter cable. The result is a fiber optic cable that is an ideal transmission medium for the outside plant environment. These designs are available with any of the high performance CommScope fiber types. The standard jacket material is Medium Density Polyethylene (MDPE), with an optional High Density Polyethylene (HDPE) jacket available. Additionally, the fiber and buffer tubes are color coded for easy identification.

CommScope's Arid-Core Moisture Barrier

- No greasy flooding compound around buffer tubes
- Speeds installation time
- Installer friendly

Moisture migration is virtually eliminated in Stranded Loose Tube cables by means of a unique three-level approach. In addition to tough outer jacketing and gel filling within the buffer tube, we employ Arid-Core, a super-absorbent polymer (SAP) technology between the jacket and the buffer tubes. When moisture meets the Arid-Core it is absorbed, thereby eliminating water migration and serving as a physical block ensuring long-term cable reliability in the Outside Plant.

Meets requirements of Telcordia, ICEA, RDUP, and IEC industry standards. CommScope is registered to the ISO 9001:2000 quality standard.

All Dry Outside Plant Stranded Loose Tube Non-Armored All Dielectric Gel-free Buffer Tube

Features and Benefits:

- Standard color-coding on fibers and buffer tubes for easy identification
- All buffer tubes are constructed to a nominal OD of 2.5mm
- MDPE jacket (also available in HDPE)
- RDUP Listed



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	D-006-LN-5K-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054270
12	D-012-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054288
24	D-024-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054296
48	D-048-LN-5K-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054312
72	D-072-LN-5K-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054338
6	D-006-LN-5L-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054163
12	D-012-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054171
24	D-024-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054189
48	D-048-LN-5L-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054205
72	D-072-LN-5L-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054221
6	D-006-LN-5M-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054056
12	D-012-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054064
24	D-024-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054072
48	D-048-LN-5M-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760054098
72	D-072-LN-5M-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054114
6	D-006-LN-8W-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053835
12	D-012-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053843
24	D-024-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053850
48	D-048-LN-8W-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053876
72	D-072-LN-8W-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760053892
144	D-144-LN-8W-F12NS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	107	160	760053918
288	D-288-LN-8W-F12NS	.71/18.2	14.3/36.4	7.1/18.2	607/2700	440	122	182	760053926
6	D-006-LN-6F-F06NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053942
12	D-012-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053959
24	D-024-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053967
48	D-048-LN-6F-F12NS	.40/10.2	8.0/20.4	4.0/10.2	607/2700	440	45	67	760053983
72	D-072-LN-6F-F12NS	.42/10.6	8.3/21.2	4.2/10.6	607/2700	440	49	73	760054007
144	D-144-LN-6F-F12NS	.62/15.8	12.4/31.6	6.2/15.8	607/2700	440	107	160	760054023
288	D-288-LN-6F-F12NS	.71/18.2	14.3/36.4	7.1/18.2	607/2700	440	122	182	760054031

Single-mode/Multimode Composite (6-288 Fiber) D-**XXX**-LN-XY-FZZNS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count **ZZ = Fibers Per Tube**

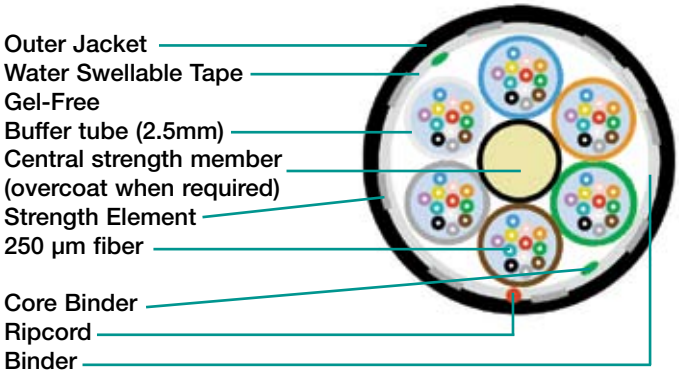
XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type

Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.

All Dry Stranded Loose Tube Non-Armored All Dielectric Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

All Dry Outside Plant
Stranded Loose Tube
Armored Gel-free Buffer Tubes

Features and Benefits:

- Corrugated steel tape armor is strong yet flexible
- Standard color-coding on fibers and buffer tubes helps ease installation
- All buffer tubes are constructed to a nominal OD of 2.5mm
- MDPE jacket (also available in HDPE)
- RDUP Listed



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	D-006-LA-5K-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053728
12	D-012-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053736
24	D-024-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053744
48	D-048-LA-5K-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053769
72	D-072-LA-5K-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053785
6	D-006-LA-5L-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053611
12	D-012-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053629
24	D-024-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053637
48	D-048-LA-5L-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053652
72	D-072-LA-5L-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053678
6	D-006-LA-5M-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053504
12	D-012-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053512
24	D-024-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053520
48	D-048-LA-5M-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053546
72	D-072-LA-5M-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053561
6	D-006-LA-8W-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053272
12	D-012-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053280
24	D-024-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053298
48	D-048-LA-8W-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053314
72	D-072-LA-8W-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053330
144	D-144-LA-8W-F12NS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	164	244	760053355
288	D-288-LA-8W-F12NS	.77/19.7	15.5/39.4	7.7/19.7	607/2700	440	187	279	760053363
6	D-006-LA-6F-F06NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053389
12	D-012-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053397
24	D-024-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053405
48	D-048-LA-6F-F12NS	.46/11.6	9.1/23.2	4.6/11.6	607/2700	440	83	124	760053421
72	D-072-LA-6F-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	88	131	760053447
144	D-144-LA-6F-F12NS	.68/17.3	13.6/34.6	6.8/17.3	607/2700	440	164	244	760053470
288	D-288-LA-6F-F12NS	.77/19.7	15.5/39.4	7.7/19.7	607/2700	440	187	279	760053488

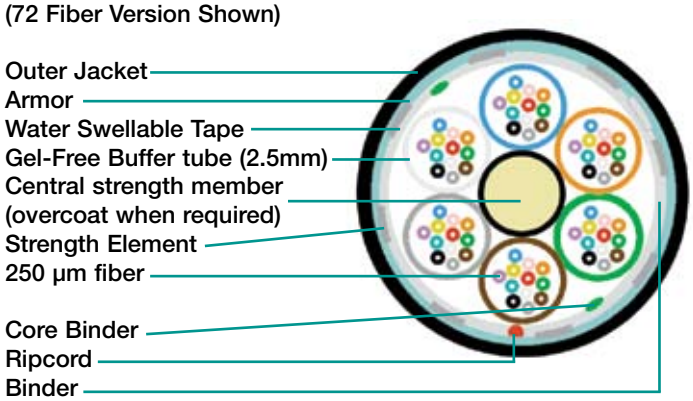
Single-mode/Multimode Composite (6-288 Fiber) D-**XXX**-LA-CM-FZZNS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

All Dry Stranded Loose Tube Armored Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Arid-Core Stranded Loose Tube Non-Armored All Dielectric

Features and Benefits:

- Arid-Core water blocking technology helps protect fibers from moisture /reduces termination effort
- Standard color-coding on fibers and buffer tubes for easy identification
- All gel-filled buffer tubes are constructed to a nominal OD of 3mm for 2-288 fiber counts
- **MDPE jacket (also available in HDPE)**
- **RDUP Listed**



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	O-006-LN-5K-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007369
12	O-012-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007377
24	O-024-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007393
48	O-048-LN-5K-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760007419
72	O-072-LN-5K-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760007427
6	O-006-LN-5L-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002790
12	O-012-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002808
24	O-024-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002824
48	O-048-LN-5L-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002840
72	O-072-LN-5L-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002857
6	O-006-LN-8W-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002584
12	O-012-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002592
24	O-024-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002618
48	O-048-LN-8W-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002634
72	O-072-LN-8W-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002642
144	O-144-LN-8W-F12NS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	154	230	760002667
288	O-288-LN-8W-F12NS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	190	283	760002675
6	O-006-LN-6F-F06NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002691
12	O-012-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002709
24	O-024-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002725
48	O-048-LN-6F-F12NS	.44/11.3	8.9/22.6	4.4/11.3	607/2700	440	57	85	760002741
72	O-072-LN-6F-F12NS	.48/12.3	9.7/24.6	4.8/12.3	607/2700	440	70	104	760002758
144	O-144-LN-6F-F12NS	.73/18.5	14.5/37.0	7.3/18.5	607/2700	440	154	230	760002675
288	O-288-LN-6F-F12NS	.84/21.5	16.9/43.0	8.4/21.5	607/2700	440	190	283	760002774

Single-mode/Multimode Composite (6-288 Fiber) | O-**XXX**-LN-CM-FZZNS/**AAaaa/BBbbb** | Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count **ZZ = Fibers Per Tube**

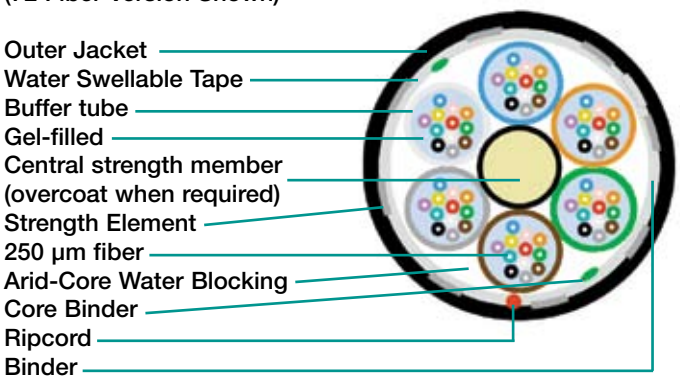
XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		

For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type

Fiber Identification Colors 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua
Fibers 13-24 repeat color sequence with tracer stripe.

Arid-Core Stranded Loose Tube Non-Armored All Dielectric Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Arid-Core Stranded Loose Tube Armored

Features and Benefits:



- Corrugated steel tape armor is strong yet flexible
- Arid-Core water blocking technology helps protect fibers from moisture /reduces termination effort
- Standard color-coding on fibers and buffer tubes helps ease installation
- All gel-filled buffer tubes are constructed to a nominal OD of 3mm for 2-288 fiber counts and 3.5mm for 290-576 fiber counts
- MDPE jacket (also available in HDPE)
- RDUP Listed

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	O-006-LA-5K-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007252
12	O-012-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007260
24	O-024-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007286
48	O-048-LA-5K-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760007302
72	O-072-LA-5K-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760007310
6	O-006-LA-5L-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002477
12	O-012-LA-5L-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002485
24	O-024-LA-5L-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002501
48	O-048-LA-5L-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002527
72	O-072-LA-5L-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002535
6	O-006-LA-8W-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002261
12	O-012-LA-8W-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002279
24	O-024-LA-8W-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002295
48	O-048-LA-8W-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002311
72	O-072-LA-8W-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002329
144	O-144-LA-8W-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002345
288	O-288-LA-8W-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002552
6	O-006-LA-6F-F06NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002378
12	O-012-LA-6F-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002386
24	O-024-LA-6F-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002402
48	O-048-LA-6F-F12NS	.50/12.8	10.0/25.6	5.0/12.8	607/2700	440	99	148	760002428
72	O-072-LA-6F-F12NS	.54/13.8	10.8/27.6	5.4/13.8	607/2700	440	115	172	760002436
144	O-144-LA-6F-F12NS	.78/20.0	15.7/40.0	7.8/20.0	607/2700	440	222	331	760002893
288	O-288-LA-6F-F12NS	.90/23.0	18.1/46.0	9.0/23.0	607/2700	440	268	399	760002451

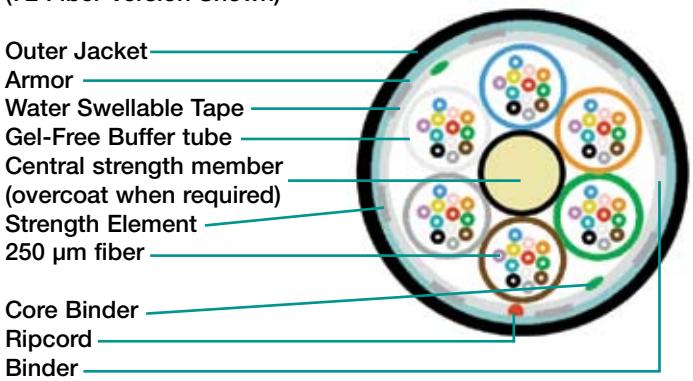
Single-mode/Multimode Composite (6-288 Fiber) O-**XXX**-LA-CM-FZZNS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Arid-Core Stranded Loose Tube Armored Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Arid-Core Mini Stranded Loose Tube Non-Armored All Dielectric

Features and Benefits:



- Arid-Core water blocking technology helps protect fibers from moisture /reduces termination effort
- Standard color-coding on fibers and buffer tubes for easy identification
- All gel-filled buffer tubes are constructed to a nominal OD of 2.0 mm for 2-144 fiber counts

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
12	0-012-LN-5K-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128280
24	0-024-LN-5K-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128298
144	0-144-LN-5K-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128306
12	0-012-LN-5L-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128256
24	0-024-LN-5L-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128264
144	0-144-LN-5L-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128272
12	0-012-LN-8W-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128223
24	0-024-LN-8W-F12NS/20T	.37/9.5	7.5/19.0	3.7/9.5	607/2700	440	48	72	760128231
144	0-144-LN-8W-F12NS/20T	.52/13.3	10.4/26.5	5.2/13.3	607/2700	440	92	138	760128249

Single-mode/Multimode Composite (6-288 Fiber) O-**XXX**-LN-XY-FZZNS/**AAaaa/BBbbb** Customdesign - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count **ZZ = Fibers Per Tube**

XY = Fiber Grade	**5K**	LazrSPEED 550, 50µm, multimode, OM4	**6F**	OptiSPEED 62.5/125µm, multimode (OM1)
	5L	LazrSPEED 300, 50µm, multimode, OM3	**8W**	TeraSPEED (single-mode)
	5M	LazrSPEED 150, 50µm, multimode, OM2+		
For Composites Only	**aaa**	is replaced with single-mode fiber count	**bbb**	is replaced by multimode fiber count
	AA	is replaced with single-mode type	**BB**	is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.			

*Armored versions of this cable are available. Contact your local CommScope representative for more information.

Light Duty
Outside Plant Cable



The Light Duty Outside Plant Fiber Optic Cable provides a cost effective option, while still allowing connectivity ease and superior mid-span accessibility. These low tensile strength Outdoor cables are designed for installation loads up to 300 lbs (1,335 N) short term and long term loads up to 90 lbs (400 N), (replacing traditional 600 lb cables) making it ideal for Enterprise Campus applications. The cable is designed to endure the rigors of outdoor use.

The cable's construction utilizes 2.5 mm gel-free tubes that eliminate the use of messy filling gel. All cables meet the mechanical and environmental requirements of ANSI/ICEA S-87-640 Standard for Optical Fiber Outside Plant Communications Cable.

Features and Benefits:

- Fiber Counts 2 – 48 (48 fiber count shown in picture)
- 2.5 mm gel free buffer tubes
- Arid-Core Construction
- Stranded Loose Tube Construction
- Meets ANSI/ICEA S-87-640 requirements
- Operational Temperature -40° to 158° F (-40° to +70° C))

Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Load lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
2	D-002-LN-5K-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112946
6	D-006-LN-5K-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112953
12	D-012-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112961
24	D-024-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112979
36	D-036-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112987
48	D-048-LN-5K-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112995
2	D-002-LN-5L-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112888
6	D-006-LN-5L-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112896
12	D-012-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112904
24	D-024-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112912
36	D-036-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112920
48	D-048-LN-5L-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112938
2	D-002-LN-5M-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112821
6	D-006-LN-5M-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112839
12	D-012-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112847
24	D-024-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112845
36	D-036-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112862
48	D-048-LN-5M-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112870
2	D-002-LN-8W-F02NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112706
6	D-006-LN-8W-F06NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112714
12	D-012-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112722
24	D-024-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112730
36	D-036-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112748
48	D-048-LN-8W-F12NS/LTS	0.37	9.3	9.3/3.7	18.7/704	35	52	760112755

Single-mode/Multimode Composite (2-48 Fiber) D-**XXX**-LN-CM-F12NS/20T/LTS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Mini All-Dielectric High Tensile Strength Outside Plant Stranded Loose Tube

Features and Benefits:

- High tensile strength and crush resistance ideal for harsh environments that require an all-dielectric construction
- Capable of withstanding up to 1000 pounds (4450 N) of tensile force
- Improved e-glass design for enhanced rodent resistance
- Cables are constructed with 2.0mm buffer tubes, resulting in a reduced cable diameter and weight, and improved handling
- Fiber Counts 12 – 144 (72 fiber count shown below)



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Installation Load lbs./Newton	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
12	O-012-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100677
24	O-024-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100685
48	O-048-LN-8W-F12NS/20T/HTS	0.45/11.5	9.06/23.0	4.53/11.5	1000/4448	68	101	760100693
96	O-096-LN-8W-F12NS/20T/HTS	12.4/0.49	24.8/9.8	12.4/4.9	1000/4448	79	117	760100701
144	O-144-LN-8W-F12NS/20T/HTS	0.58/14.7	11.6/29.4	5.79/14.7	1000/4448	113	168	760100719

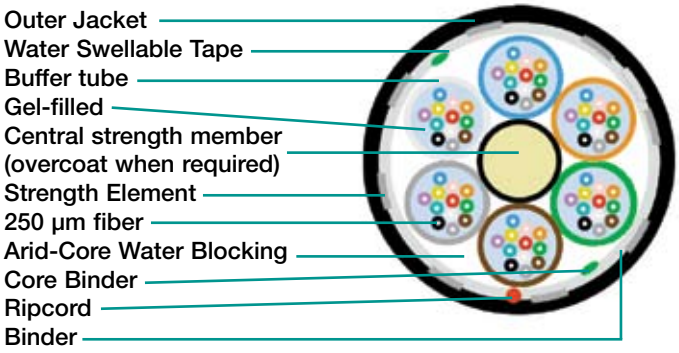
Single-mode/Multimode Composite (2-144 Fiber) O-**XXX**-LN-CM-F12NS/20T/HTS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Mini Indoor/Outdoor Stranded Loose Tube Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	2.21 lb/ft (3.00N-m)
Flexing	35 cycles
Twist/Bend	10 cycles

Outside Plant Specialty Designs Double Jacket Single Armor Gel-Free Stranded Loose Tube

Features and Benefits:

- Strong, durable double and triple jacketed construction with corrugated steel tape armor
- Standard color-coding on fibers and buffer tubes helps ease installation
- All gel-free buffer tubes are constructed to a nominal OD of 2.5mm for 6-288 fiber counts
- Double jacket/single armor version RDUP Listed



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	Weight kg/1000'	Material ID
6	D-006-L2-8W-F06NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103861
12	D-012-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103879
24	D-024-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103887
48	D-048-L2-8W-F12NS	.59/15.1	11.9/30.2	5.9/15.1	607/2700	440	131	196	760103903
72	D-072-L2-8W-F12NS	.61/15.5	12.2/31.0	6.1/15.5	607/2700	440	139	208	760103911
144	D-144-L2-8W-F12NS	.81/20.7	16.2/41.4	8.1/20.7	607/2700	440	231	345	760103937
288	D-288-L2-8W-F12NS	.91/23.1	18.1/46.2	9.1/23.1	607/2700	440	264	393	760103945

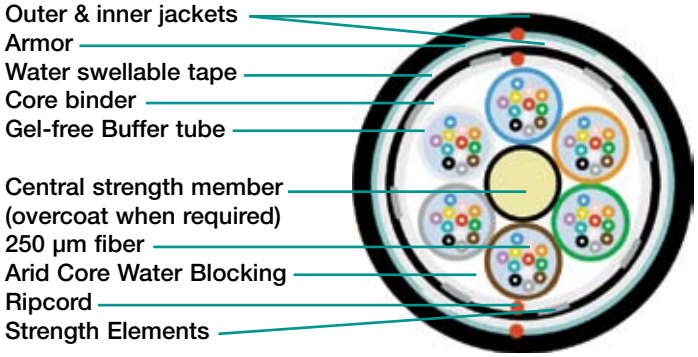
Single-mode/Multimode Composite (6-288 Fiber) D-**XXX**-L2-CM-FZZNS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Double Jacket/Single Armor Loose Tube Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Central Tube Non-Armored All Dielectric

Robust constructions offer excellent protection of fibers.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	O-006-CN-5L-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012347
12	O-012-CN-5L-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012354
24	O-024-CN-5L-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700012362
48	O-048-CN-5L-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	700012370
6	O-006-CN-8W-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004010
12	O-012-CN-8W-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004036
24	O-024-CN-8W-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	760004044
48	O-048-CN-8W-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	760004069
72	O-072-CN-8W-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	760004077
6	O-006-CN-6F-F06NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010721
12	O-012-CN-6F-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010705
24	O-024-CN-6F-F12NS	.40/10.1	7.9/20.2	4.0/10.1	607/2700	440	63	94	700010689
48	O-048-CN-6F-F12NS	.47/12.1	9.5/24.2	4.7/12.1	607/2700	440	86	128	700010663
72	O-072-CN-6F-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	700010648

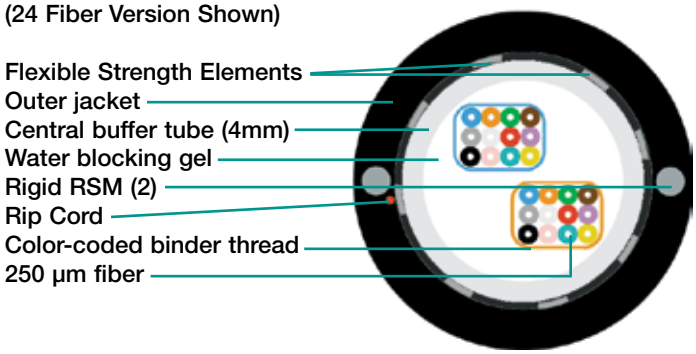
Single-mode/Multimode Composite (6-288 Fiber) O-**XXX**-CN-CM-FZZNS/**AAaaa/BBbbb** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Central Tube Non-Armored All Dielectric Cable

(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant
Central Tube Armored

Robust constructions offer excellent protection of fibers. Corrugated steel tape armor is strong, yet flexible



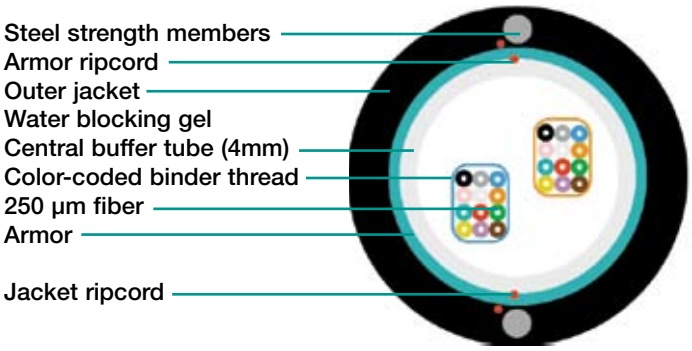
Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'	Material ID
6	O-006-CA-5M-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760015800
12	O-012-CA-5M-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760017202
6	O-006-CA-8W-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003921
12	O-012-CA-8W-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003947
24	O-024-CA-8W-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760003954
48	O-048-CA-8W-F12NS	.51/13.0	10.2/26.0	5.1/13.0	607/2700	440	121	181	760003970
72	O-072-CA-8W-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	760003988
6	O-006-CA-6F-F06NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	760010614
12	O-012-CA-6F-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	700010598
24	O-024-CA-6F-F12NS	.43/11.0	8.6/22.0	4.3/11.0	607/2700	440	93	138	700010580
48	O-048-CA-6F-F12NS	.51/13.0	10.2/26.0	5.1/13.0	607/2700	440	121	181	700010564
72	O-072-CA-6F-F12NS	.59/15.0	11.8/30.0	5.9/15.0	607/2700	440	152	226	700010556

Single-mode/Multimode Composite (6-288 Fiber) | O-**XXX**-CA-CM-FZZNS/**AAaaa/BBbbb** | Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Central Tube Armored Cable
(24 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant
All-Dielectric Drop

Features and Benefits:

- Ideal for drop cable applications
- Meets ICEA 717 Standard for drop cables
- Designed with an industry standard 3.0 mm buffer tube



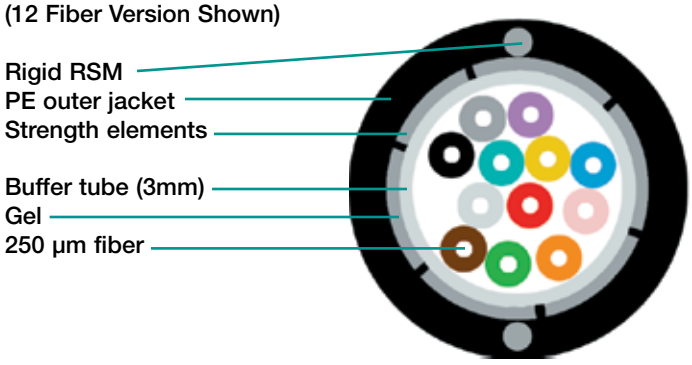
Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'
2	O-002-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
4	O-004-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
6	O-006-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
8	O-008-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69
12	O-012-DN-XY-FZZNS/30T	.34/8.7	13.7/34.8	6.8/17.4	300/1335	440	46	69

Single-mode/Multimode Composite (2-12 Fiber) — O-**XXX**-DN-CM-FZZNS/**AAaaa/BBbbb/30T** Custom design - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua	

Outdoor Drop Cable
(12 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 70°C
Crush Resistance	125 lbf/in (22 N/mm)
Impact Resistance	2.17 lbf-ft (2.94 N-m)
Flexing	25 cycles
Twist/Bend	Exceeds

Outside Plant Self-Supporting Figure 8 Stranded Loose Tube Armored

The self-supporting Figure 8 stranded loose tube cable is constructed with industry standard 3 mm gel-filled, buffer tubes, stranded around a central strength member. The armored version has the cable armored with a corrugated, polymer coated steel tape. Arid-Core water blocking technology protects fibers from moisture and reduces termination effort.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./1000'	Weight kg/1000'	Material ID
6	M-048-LA-5K-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760069963
6	M-048-LA-5L-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760035832
12	M-012-LA-5L-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760072140
24	M-024-LA-5L-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760072157
48	M-048-LA-5L-F12NS	.89/22.8	18.2/46.4	9.1/23.2	607/2700	440	213	318	760072165
6	M-048-LA-8W-F06NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760032128
12	M-012-LA-8W-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760013680
24	M-024-LA-8W-F12NS	.35/8.9	5.2/13.1	10.3/26.2	607/2700	440	257	382	760026328
48	M-048-LA-8W-F12NS	.89/22.8	18.2/46.4	9.1/23.2	607/2700	440	213	318	760055434
288	M-288-LA-8W-F12NS	1.30/33.0	34.2/87.2	17.1/43.6	607/2700	440	349	520	760083006

Single-mode/Multimode Composite (6-288 Fiber) M-**XXX**-LA-CM-FZZNS/**AAaaa/BBbbb** Customdesign - sizes/specs will vary depending on fiber count

Variables in the Product Number:

XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4 **5L** LazrSPEED 300, 50µm, multimode, OM3 **5M** LazrSPEED 150, 50µm, multimode, OM2+	**6F** OptiSPEED 62.5/125µm, multimode (OM1) **8W** TeraSPEED (single-mode)
For Composites Only	**aaa** is replaced with single-mode fiber count **AA** is replaced with single-mode type	**bbb** is replaced by multimode fiber count **BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	
Loading Capabilities	Meets the loading conditions of heavy, medium or light storm loading areas as defined in Rule 251 of the National Electric Safety Code (NESC); for span details, call tech support (866.484.6277).	

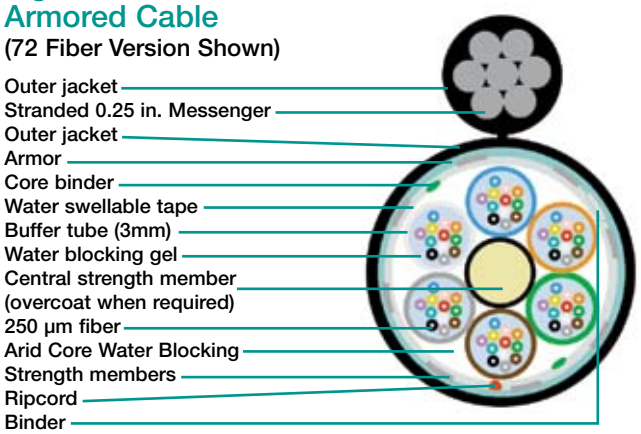
Sag & Tension Examples

Fiber Count	Span (ft)	0.5% Sag	1.0% Sag	2.0% Sag	3.0% Sag
6	150	802	401	200	134
12	150	802	401	200	134
24	150	802	401	200	134
48	150	802	401	200	134
72	150	851	425	213	142
144	150	1117	559	279	186
288	150	1310	655	328	218

Values were calculated at 70°F (21°C)
Custom Sag & Tension Tables are available providing the recommended sag or tension. Please contact technical support.

Figure 8 Armored Cable

(72 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-30 to 60°C
Storage Temp.	-40 to 75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds

*All Dielectric versions of this cable are available. Contact your local CommScope representative for more information.

Outside Plant All-Dielectric Self Supporting ADSS Cable

Arid-Core water blocking technology helps protect fibers from moisture. Standard color-coding on fibers and buffer tubes helps ease installation. All buffer tubes are constructed to a nominal OD of 3mm.



Fiber Count	Product Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Min. Bend Radius Unloaded inch/cm	Max. Tensile Load lbs./Newton	Crush Resistance	Weight lbs./ 1000'	Weight kg/ 1000'
6	S-006-LN-XY-F06NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
12	S-012-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
24	S-024-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
48	S-048-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99
60	S-060-LN-XY-F12NS/NFB	.46/11.8	9.3/23.6	4.6/11.8	607/2700	440	66	99

Single-mode/Multimode Composite (2-288 Fiber) S-**XXX**-LN-CM-FZZNS/**AAaaa/BBbbb** Customdesign - sizes/specs will vary depending on fiber count

Variables in the Product Number:

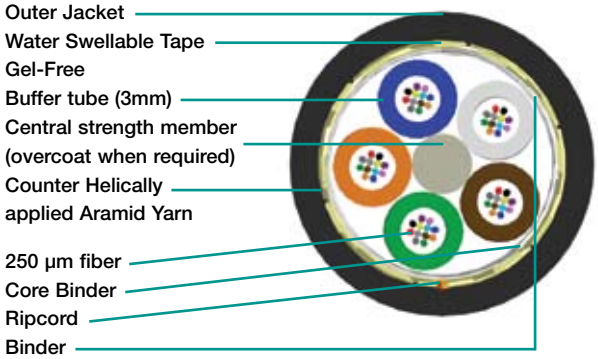
XXX = Total Fiber Count	**ZZ = Fibers Per Tube**	
XY = Fiber Grade	**5K** LazrSPEED 550, 50µm, multimode, OM4	**6F** OptiSPEED 62.5/125µm, multimode (OM1)
	5L LazrSPEED 300, 50µm, multimode, OM3	**8W** TeraSPEED (single-mode)
	5M LazrSPEED 150, 50µm, multimode, OM2+	
For Composites Only	**aaa** is replaced with single-mode fiber count	**bbb** is replaced by multimode fiber count
	AA is replaced with single-mode type	**BB** is replaced by multimode type
Fiber Identification Colors	1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua Fibers 13-24 repeat color sequence with tracer stripe.	

Sag & Tension Examples

	NESC Heavy		NESC Medium		NESCLight	
Fiber Count	Max Span ft (m)	Total Sag at NESC Loading (%)	Max Span ft (m)	Total Sag at NESC Loading (%)	Max Span ft (m)	Total Sag at NESC Loading (%)
2 - 60 Fiber	374 (114)	5.04	594 (181	4.62	817 (249)	4.18

All-Dielectric Self Supporting ADSS

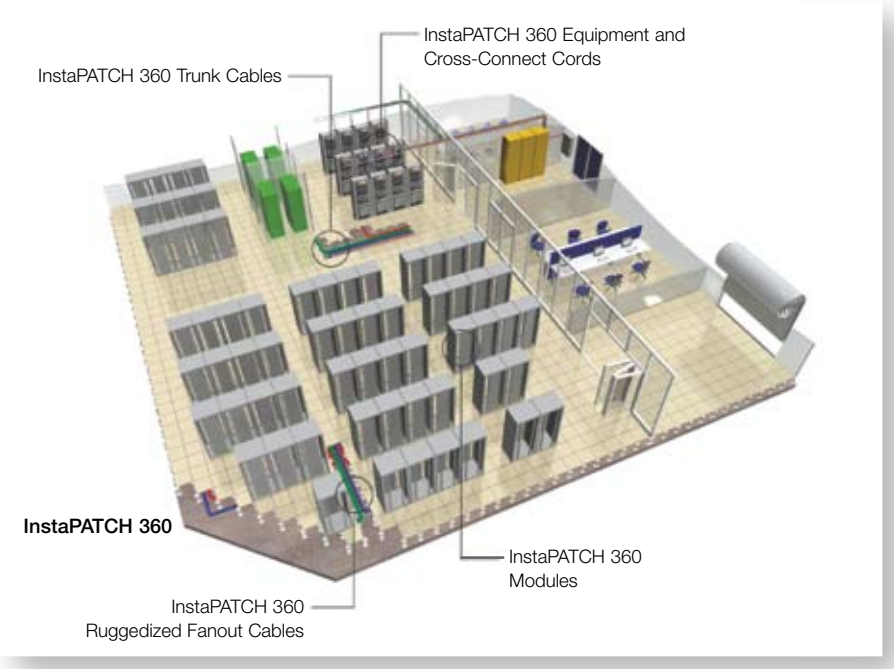
(60 Fiber Version Shown)



Mechanical Properties

Description	Specification
Operating Temp.	-40 to +70°C
Installation Temp.	-30 to +60°C
Storage Temp.	-40 to +75°C
Crush Resistance	250 lbf/in (44 N/mm)
Impact Resistance	Exceeds
Flexing	25 cycles
Twist/Bend	Exceeds
High Frequency (Aeolian) Vibration	100 Million Cycles
Low Frequency (Galloping) Vibration	100,000 Cycles
Electrical Space Potential (standard)	up to 12 kV
Electrical Space Potential (special)	up to 25 kV

InstaPATCH® 360 Fiber System



The SYSTIMAX InstaPATCH® 360, developed by CommScope Labs, is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH 360 System incorporates SYSTIMAX LazrSPEED® multimode, OptiSPEED® multimode 50µm and TeraSPEED® single-mode fiber technologies to support today's most demanding applications. InstaPATCH 360 Fiber Solution delivers low loss performance as a standard, along with increased density.

The pre-terminated hardware of the SYSTIMAX LazrSPEED Solution is built with LazrSPEED 550 OM4 multimode fiber, providing for the capability to support 10Gbps Ethernet applications, as well as emerging 40Gbps/100Gbps Ethernet and 16Gbps Fibre Channel standards. The pre-terminated hardware has "Low-Loss" performance characteristics, coupled with high bandwidth, to provide Best-in-Class application support. Trunk cables are available in LazrSPEED 150, 300 and 550 performance grades to address the wide range of requirements of system operators.

The InstaPATCH 360 System includes patch panels and shelves, modules, trunk cables, ruggedized fanouts, array cords and fiber patch cords. The system requires no special components to manage and maintain polarity within each channel.

The InstaPATCH 360 modules are directly compatible with the SYSTIMAX G2 Modular Cassette System, providing for the capability to install four - 24 LC modules to achieve 96 LC connections in a one rack unit (1U) shelf or 16 Modules, allowing up to 384 fibers in 4 rack units (4U) when utilizing LC-LC patching.

Pre-terminated with MPO connectors and offered in customer-specified lengths, the InstaPATCH 360 trunk cables are offered in 12, 24, 36, 48, 72, 96, and 144 fibers. Solutions supported are:
- LazrSPEED 550, 50 µm Multimode (OM4)
- LazrSPEED 300, 50 µm Multimode (OM3)
- LazrSPEED 150, 50 µm Multimode (OM2+)
- OptiSPEED, 62.5 µm Multimode
- TeraSPEED, Single-mode

Features & Benefits:

- Small, compact module design offer improved density and is reverse compatible with the G2 modular cassette solution
- Translucent shutters and dust plugs allow for easy port identification utilizing a Visual Fault Locator (VFL)
- Modules are available with 12 or 24 LC connections or with 12 SC connections
- The Modular Panels offer excellent cable management and rear access, while minimizing bulk, complexity and potential restrictions to air flow
- The InstaPATCH 360 solution is iPATCH Ready, offering the capability to upgrade to intelligent infrastructure management after the initial installation
- Factory terminated and tested cable and apparatus for instant field connections with guaranteed quality and performance
- 24-fiber module option aligns well with systems that utilizes a 8-fiber increment
- 12-fiber MPO connector based modular design enables simple connections
- Designed for administrative convenience - guaranteed transmit-to-receive connectivity
- No special polarity components – single module design, standard patch cords
- Easy upgrade path to parallel connectivity and wavelength division multiplexing applications
  - 40 Gbps / 100 Gbps Ethernet
  - 16 Gbps Fibre Channel
- Supports easy reconfiguration for moves, adds and changes

SYSTIMAX 360 Modular Fiber Shelves & Panels 1U, 2U & 4U


360 1U Modular Shelf


360 4U Modular Panel

The 360G2 fiber shelves are available in 1U, 2U and 4U sizes as well as sliding and fixed settings.

Features and Benefits of the 1U and 2U Fiber Shelves:

- Bend limiters maximize space by integrating into the shelf trough
- Push/push-style latch on the front trough door improves access to shelf interior
- Unique open-floor trough design enhances access for patch cord latching and de-latching
- Displays intuitively-placed port labeling when door is open
- Features the elegant SYSTIMAX 360 design
- Offered in fixed and sliding options

Features and Benefits of the 4U Fiber Shelves:

- Push/push-style latch on front and rear door improves access to shelf interior
- Refined cable management rings enhance access to base of modules
- Advanced vertical management increases flexibility
- Larger side fiber access allows for more fiber
- Shelf assist (patent pending) facilitates installation and ensures proper U spacing for shelf mounting

Features and Benefits of the 1U and 4U Fiber Panels:

- Panels are mounted in a horizontal orientation
- The Modular Panels offer excellent cable management and rear access, while minimizing bulk, complexity and potential restrictions to air flow
- By eliminating the rear enclosure found on a full shelf, the weight is substantially reduced (need to get the actual weights and calculate a percentage
- The Modular Panels have full-feature cable and cord management on the front
- The 4U Modular Panel can accommodate 16 InstaPATCH 360 Modules, allowing up to 384 fibers in 4 rack units when utilizing LC-LC patching
- When utilizing the 360DP MPO pass through panels, fiber density can reach 1536 fibers in 4 rack units
- MPO pass through panels available with 2, 4, 6, and 8 MPO adapters to accommodate various configurations

Product Number	Detailed Description	Material ID
360G2-1U-MOD-FX	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760103150
360G2-1U-MOD-SD	360G2 1U Sliding modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760103085
360G2-1U-MOD-IS	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or 360G2 modular cassettes	760119123
360G2-2U-MOD-FX	360G2 2U Fixed modular cassette shelf, accepts 8 360DM, 360DP or 360G2 modular cassettes	760103168
360G2-2U-MOD-SD	360G2 2U Sliding modular cassette shelf, accepts 8 360DM, 360DP or 360G2 modular cassettes	760103143
360G2-4U-MOD-FX	360G2 4U Fixed modular cassette shelf, accepts 12 360DM, 360DP or 360G2 modular cassettes	760101055
360G2-4U-MOD-SD	360G2 4U Sliding modular cassette shelf, accepts 12 360DM, 360DP or 360G2 modular cassettes	760101071
360MP-1U*	360MP 1U Panel, accepts 4 360DM or 360DP components	760106617
360MP-1UA Angled*	360MP 1U Panel Angled, accepts 4 360DM or 360DP components	760113001
360MP-4U*	360MP 4U Panel, accepts 16 360DM or 360DP components	760120287

360G2 Accessories

Product Number	Detailed Description	Material ID
360G2-1U-TROUGH	360 1U Trough Assembly Kit	760086215
360G2-2U-TROUGH	360 2U Trough Assembly Kit	760093567
360G2-4U-FLK	360 Flip Label Kit, 4U Shelf	760101410
360G2-1U-LABEL	360G2 Flip Label Kit, 1U Trough	760105676
CMB-360MP-1U	Hardware kit for 360MP-1U and 360MP-1U-ANGLED panels for mounting to "L" shaped equipment rail	760110098

*The 360MP-1U, 360MP-1UA and 360MP-4U are shipped with correct hardware for mounting in a "C" channel rack or cabinet. For appropriate installation in a "L" channel rack, please purchase 760110098 – CMB Spacer Kit for 360MP-1U, L Shape. This will allow for mounting in racks or cabinets that do not have a full "C" Channel.

SYSTIMAX 360G2 1U and 2U MOD Shelves and 360MP-1U Panels

The 1U and shelves and panels can house any combination of up to 4 InstaPATCH 360DM Modules to achieve up to 96 fiber terminations per unit, while the 2U shelf can house up to 8 360 DM Modules and achieve up to 192 fiber terminations per unit. In addition, the 360G2 1U and 2U lines of shelves provide ample space for storing up to 2 meters of cable slack inside each shelf.

The 360MP-1U panel and G2 MOD shelves are equipped with a front trough for patch cord management that provides ample room for labeling. The 360MP-1U also includes a rear cable management bar, labels for network mapping, mounting hardware and installation instructions.

SYSTIMAX 360G2 4U MOD Shelves

The 4U shelf houses any combination up to 12 InstaPATCH 360DM modules to achieve up to 288 fiber terminations per shelf. It can be mounted on a 19-inch, 23-inch or ETSI rack. The 360G2-4U-MOD-FX (fixed) and 360G2-4U-MOD-SD (sliding) includes trunk cable storage clips, labels for network mapping, mounting hardware and installation instructions.

InstaPATCH 360DM-24LC-LS/MM/SM Module

This module features 12 pre-installed duplex LC adapters at the front routed to 2 pre-installed 12-fiber MPO adapters at the back. This high-density module features opaque exterior shutters for improved dust protection and occupational safety, as well as visible port mapping.

Physical Specifications:

	MP-1U Panel	DM2 Modules–LC, SC, ST
Height:	1.7 in (4.37 cm)	1.1 in (2.9 cm)
Width:	19.0 in (48.3 cm)	5.1 in (13.0 cm)
Depth:	9.7 in (24.6 cm)	5.0 in (12.8 cm)
Listing:	UL	UL

See G2 Shelf sections for specifications of shelves.

InstaPATCH 360DM-12LC-LS/MM/SM Module

This module features 6 pre-installed duplex LC adapters at the front routed to a pre-installed 12-fiber MPO adapter at the back. This high-density module features opaque exterior shutters for improved dust protection and occupational safety, as well as visible port mapping.

InstaPATCH 360DM-12SC-LS/MM/SM Module

This module features 6 pre-installed duplex SC adapters routed to a pre-installed 12-fiber MPO adapter at the back. Each duplex SC adapter includes two “easy-pull” protective dust caps, opaque in color, to allow for visible port mapping.

InstaPATCH 360DP-MPO Module Adapter Panel

The MPO adapter panel is available equipped with 2, 4, 6, or 8 MPO adapters. The panel allows for direct connections with MPO equipment for parallel applications or MPO fanout to traditional duplex transceivers.

InstaPATCH 360 Universal Mounting Bracket

The InstaPATCH 360 Universal Mounting Bracket extends application flexibility with the InstaPATCH 360 modules and offers options for wall-mount, rack-mount, and cabinet-mount. The UMB bracket is individually packed with the mounting screws (included) and can mount either one or up to four modules or MPO panels into a 19” rack. Using optional #10 screws (not included), the bracket can be attached to a wall or ceiling in either horizontal or vertical orientation.



Universal Mounting Bracket

Optical Performance

Module Component	LazrSPEED Total Insertion Loss	Return Loss	TeraSPEED Total Insertion Loss	Return Loss
DM-LC Modules	≤ .90 dB	≥ 20 dB	≤ 1.15 dB	≥ 55 dB
DM-SC Modules	≤ 1.10 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB
DM-ST Modules	≤ 1.10 dB	≥ 20 dB	≤ 1.3 dB	≥ 55 dB

InstaPATCH® 360 Modules


InstaPATCH 360 Module

InstaPATCH 360 Modules

Product Number	Fiber Count	Fiber Type	Detailed Description	Material ID
360DM-24LC-LS	24	50µm	InstaPATCH 360 Module, 24LC-LS	760109884
360DM-12LC-LS	12	50µm	InstaPATCH 360 Module, 12LC-LS	760109926
360DM-12SC-LS	12	50µm	InstaPATCH 360 Module, 12SC-LS	760109967
360DM-24LC-LS-6PK	24	50µm	InstaPATCH 360 Module, 24LC-LS, 6 Pack	760116178
360DM-12LC-LS-6PK	12	50µm	InstaPATCH 360 Module, 12LC-LS, 6 Pack	760116186
360DM-24LC-MM	24	62.5µm	InstaPATCH 360 Module, 24LC-MM	760109900
360DM-12LC-MM	12	62.5µm	InstaPATCH 360 Module, 12LC-MM	760109942
360DM-12SC-MM	12	62.5µm	InstaPATCH 360 Module, 12SC-MM	760109983
360DM-24LC-SM	24	Single-Mode	InstaPATCH 360 Module, 24LC-SM	760109892
360DM-12LC-SM	12	Single-Mode	InstaPATCH 360 Module, 12LC-SM	760109934
360DM-12SC-SM	12	Single-Mode	InstaPATCH 360 Module, 12SC-SM	760109975
360DM-24LC-SM-6PK	24	Single-Mode	InstaPATCH 360 Module, 24LC-SM, 6 Pack	760116194
360DM-12LC-SM-6PK	12	Single-mode	InstaPATCH 360 Module, 12LC-SM, 6 Pack	760116202


InstaPATCH 360 Module (360DM-12SC-LS)


InstaPATCH 360 Module (360DM-24LC-SM)

SYSTIMAX® 360G2 iPatch Fiber Shelves


360G2 1U Fiber Shelf

The 360G2 fiber shelves are available in 1U, 2U and 4U sizes as well as sliding and fixed settings.

The SYSTIMAX 360 1U optical fiber shelves are “iPatch-Ready” and can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360 solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.

Features and Benefits:

- Bend limiters maximize space by integrating into the shelf trough
- Push/push-style latch on the front trough door improves access to shelf interior
- Unique open-floor trough design enhances access for patch cord latching and de-latching
- Displays intuitively-placed port labeling when door is open
- Features the elegant SYSTIMAX 360 design
- Offered in fixed and sliding options
- Available in 1RU and 2RU sizes
- 360G2 1U Modular Shelf is available in iPatch-Ready versions (field upgradable to iPatch without the need to remove patch cords, meaning no network downtime) or factory assembled iPatch versions

360G2 iPatch Intelligence Enabled Shelves

Product Number	Detailed Description	Material ID
360-iP-G2-1U-LC-FX	360 iPatch G2 LC Fiber Shelf, Fixed	760105163
360-iP-G2-1U-LC-SD	360 iPatch G2 LC Fiber Shelf, Slide	760105171

360G2 Modular Intelligence Ready Shelves

Product Number	Detailed Description	Material ID
360G2-1U-MOD-FX	360G2 1U Fixed modular cassette shelf, accepts 4 360DM, 360DP or G2 modular cassettes	760103150
360G2-1U-MOD-SD	360G2 1U Sliding modular cassette shelf, accepts 4 360DM, 360DP or G2 modular cassettes	760103085
360-iP-UP-KIT-G2-LC	360 iPatch Upgrade Kit for 360G2-1U-MOD shelves with 360G2 LC cassettes 360DP LC Panels	760105148

360G2 iPatch HD Shelf

Product Number	Detailed Description	Material ID
360-iP-HD-2U-IP-SD	360 iPatch G2 HD Fiber Shelf, 2U Sliding	760093336

360G2 High Density Modules

Product Number	Detailed Description	Material ID
360-iP-HD-MOD-LC-LS	360 iPatch G2 HD LS Module	760093344
360-iP-HD-MOD-LC-LS-3	360 iPatch G2 HD LS Module (3-pack)	760093351
360-iP-HD-MOD-LC-TS	360 iPatch G2 HD TS Module	760093369
360-iP-HD-MOD-LC-TS-3	360 iPatch G2 HD TS Module (3-pack)	760093377
360-iP-HD-MOD-LC-OS	360 iPatch G2 HD OS Module	760093385
360-iP-HD-MOD-LC-OS-3	360 iPatch G2 HD OS Module (3-pack)	760093393

InstaPATCH® Aligned Key MPO Adapter



In-Line Adapter Housing MPO(f)-MPO(m)

The InstaPATCH In-Line MPO Adapter Housing is designed to provide protection when mating an InstaPATCH trunk cable to an InstaPATCH extension cable or ruggedized fanout. The housing allows for MPO connectivity without using rack units for adapter panels and protects 2 MPO connections. A Velcro strip for mounting and label is included.

Detailed Description	Material ID
In-Line Adapter Housing MPO(f)-MPO(m)	760074047

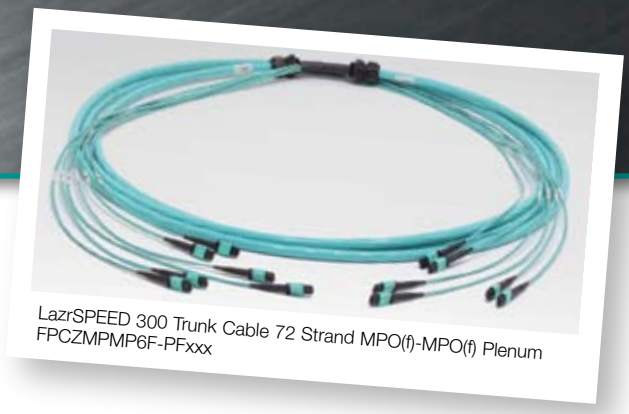
InstaPATCH® 360 Universal Mounting Bracket


Universal Mounting Bracket

The InstaPATCH 360 universal mounting bracket extends application flexibility of the InstaPATCH 360 modules and offers options for wall-mount, rack-mount, and cabinet-mount. The UMB bracket is individually packed with the mounting screws (included) and can mount either one or up to four modules or MPO panels into a 19" rack. Using optional #10 screws (not included), the bracket can be attached to a wall or ceiling in either horizontal or vertical orientation.

Detailed Description	Material ID
360 - UMB InstaPATCH Universal Mounting Bracket Kit, accepts up to 4 modules	760117564

InstaPATCH® 360 Pre-terminated Trunk Cables



LazrSPEED 300 Trunk Cable 72 Strand MPO(f)-MPO(f) Plenum FPCZMPMP6F-PFxxx

The SYSTIMAX InstaPATCH 360 System features a high-density, factory-terminated, factory tested, modular fiber connectivity solution that allows installers to simply and quickly connect system components together.

Developed by CommScope Labs, the InstaPATCH 360 System is designed to support locations, such as data centers, that require high-density, rapid deployment and high performance. The InstaPATCH 360 System incorporates LazrSPEED multimode, OptiSPEED multimode and TeraSPEED single-mode fiber technologies to support today's most demanding applications, while allowing easy migration to next generation technology.

InstaPATCH 360 Trunk Cables

InstaPATCH 360 trunk cables are offered in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions.

The InstaPATCH trunk cables are round, non-ribbon based, providing much more flexibility and ease of installation than traditional MPO terminated trunks. They are offered in 12, 24, 36, 48, 72, 96 and 144 fibers. The cable is constructed with multiple subunits, each with 12 fibers, and is terminated on both ends with MPO 12-fiber connectors. There is no splicing within the cable, and each group of 12 fibers is protected by over-sheath. The lengths of the breakout over-sheaths are staggered for easy routing and handling. The maximum length of the breakout over-sheath is 33 inches from the transition point.

All trunk cables can be ordered with or without a pulling grip and with or without a cable gland.

Features and Benefits:

- Available in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions
- 12 fiber MPO connector-based modular design enables simple connections
- Factory terminated and tested trunk cables for instant field connections and guaranteed quality and performance
- Designed for administrative convenience—guaranteed transmit-to-receive connectivity
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications, while preserving most of the initial investment

InstaPATCH 360 Trunk Extensions

The InstaPATCH 360 trunk extensions, offered in LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED and TeraSPEED Solutions, are used to connect hardware to trunk cables. The InstaPATCH 360 trunk extensions are constructed with a 12 fiber cable and provide a female MPO connector on one end to attach to an InstaPATCH module or rugged fanout and a male MPO on the other end to attach to a trunk cable through a DM-2 MPO, DM-4 MPO, DM-6 MPO or DM-8 MPO panel or an InstaPATCH Plus Aligned Key Adapter.

Cable Specifications:

Attenuation, max:	LazrSPEED 550	LazrSPEED 300	LazrSPEED 150	OptiSPEED	TeraSPEED
	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	3.0 dB/km @ 850 nm	0.5 dB/km @ 1310 nm
	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	1.0 dB/km @ 1300 nm	0.5 dB/km @ 1385 nm
					0.5 dB/km @ 1550 nm

Minimum Bandwidth, MHz-km:	LazrSPEED 550	LazrSPEED 300	LazrSPEED 150	OptiSPEED	TeraSPEED
Overfilled:	3500 Mhz-km @ 850 nm	1500 Mhz-km @ 850 nm	700 Mhz-km @ 850 nm	200 Mhz-km @ 850 nm	N/A
	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	N/A
Laser:	4700 Mhz-km @ 850 nm	2000 Mhz-km @ 850 nm	950 Mhz-km @ 850 nm	N/A	N/A
	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	500 Mhz-km @ 1300 nm	N/A	N/A

InstaPATCH 360 Pre-terminated Trunk Cables Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	G	X	M	P	M	P	A	D	-	A	A	F	010

Prefix
- **FG** Trunk-Plenum
- **FH** Trunk-Plenum Armored
- **FJ** Trunk-LSZH
- **FK** Trunk-LSZH Armored

Fiber Type
- **X** LazrSPEED 550 Multimode
- **Z** LazrSPEED 300 Multimode
- **H** LazrSPEED 150 Multimode
- **M** OptiSPEED Multimode**
- **W** TeraSPEED Single-mode

Connector One
- **MP** MPO (Female No Pins)

Connector Two
- **MP** MPO (Female No Pins)
- **MX** MPO (Male Pins)

Cordage Size
- **A** 12 Fiber PmP Cable
- **D** 12 Fiber PmP I/O Cable

Fiber Count
- **D** 12 Fiber**
- **F** 24 Fiber
- **G** 36 Fiber
- **H** 48 Fiber
- **K** 72 Fiber
- **L** 96 Fiber
- **M** 144 Fiber

Jacket Color
- **A** Blue
- **B** Orange
- **C** Green
- **D** Brown
- **E** Slate
- **G** Red
- **H** Black
- **J** Yellow
- **K** Violet
- **L** Rose
- **M** Aqua

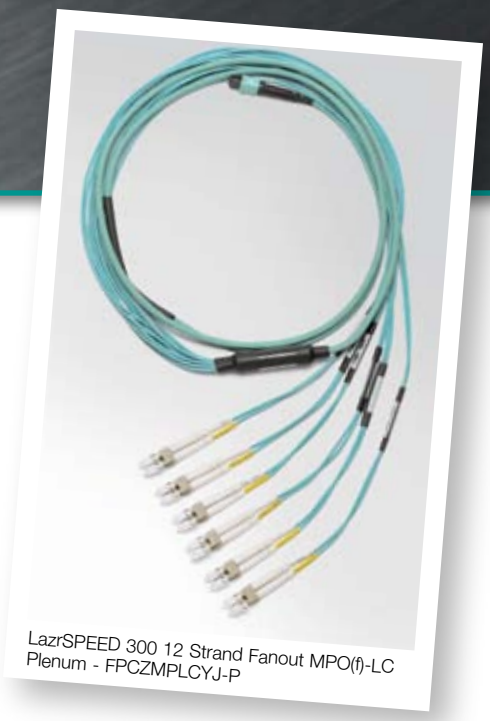
Breakout Length
- **A** No Gland
- **B** With Gland
- **C** Pulling Grip

UOM
- **F** Feet
- **M** Meter

Length
10-999 Feet
3-999 Meters

**Not available for the Ultra High Density Fiber Solution

InstaPATCH® 360 Ruggedized Fanout Cables



LazrSPEED 300 12 Strand Fanout MPO(f)-LC Plenum - FPCZMPLCYJ-P

The InstaPATCH 360 ruggedized fanout cables support direct connection to equipment from the patch panel. Ruggedized fanout cables can be terminated with MPO connectors on one end and paired LC, SC or ST (LC and ST are duplex clipped) connectors on the other end. Optionally, ruggedized fanout terminated with single fiber connectors on both ends. The ruggedized fanout cable is designed for use with 360 modular shelves, InstaPATCH 360 trunks and MPO panels.

The ruggedized fanouts are available in LazrSPEED 550, LazrSPEED 300, TeraSPEED and OptiSPEED Solutions, in 12, 24, 36, 48 and 72 fiber counts. The fanout is built with InstaPATCH (12 fiber subunit distribution cable) and furcated to individual fiber legs, terminated with individual connectors. Each fiber leg is constructed with 1.6 mm reinforced zipcord furcation tubing for outstanding durability and dependability. Both Female and Male fanouts are equipped with cable gland for mounting to Rack or Shelf Mount Brackets.

Designed for two distinct applications, the InstaPATCH 360 MPO Fanout Cables are available in two configurations:

- MP–without pins, for connections to equipment from an InstaPATCH 360 Module
- MX–with pins, for connections to equipment directly from a trunk cable

Features and Benefits:

- 12 fiber MPO connector based modular design enables simple connections
- Ruggedized fanouts are constructed with LazrSPEED 550, LazrSPEED 300, LazrSPEED 150 OptiSPEED or TeraSPEED fibers
- Factory terminated and tested for instant field connections and guaranteed quality and performance
- Designed for administrative convenience–guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components

InstaPATCH 360 Ruggedized Fanout Cables Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	L	X	M	P	L	A	A	D	-	M	E	F	010

Prefix

FL	Rugged F/O Plenum
FM	Rugged F/O Plenum Armored
FN	Rugged F/O LSZH*
FP	Rugged F/O LSZH Armored*

Fiber Type

X	LazrSPEED 550 Multimode
Z	LazrSPEED 300 Multimode
H	LazrSPEED 150 Multimode
M	OptiSPEED Multimode**
W	TeraSPEED Single-mode

Connector One

MP	MPO (Female No Pins)
MX	MPO (Male Pins)

Connector Two

LA	LC Angled
LC	LC Standard
LU	LC Uniboot*
SA	SC Angled**
SC	SC Standard**
ST	STII**
MJ	MTRJ**
FA	FC Angled**
FC	FC Standard**

Cordage Size

A	12 Fiber PmP Cable
D	12 Fiber PmP I/O Cable

Fiber Count

D	12 Fiber**
F	24 Fiber
G	36 Fiber
H	48 Fiber
K	72 Fiber

Jacket Color

A	Blue
B	Orange
C	Green
D	Brown
E	Slate
G	Red
H	Black
J	Yellow
K	Violet
L	Rose
M	Aqua

Breakout Length

E	24 in Breakout No Gland
F	24 in Breakout With Gland
G	24 in Breakout Pulling Grip
H	48 in Breakout No Gland
J	48 in Breakout With Gland
K	48 in Breakout Pulling Grip
L	72 in Breakout No Gland
M	72 in Breakout With Gland
N	72 in Breakout Pulling Grip
P	96 in Breakout No Gland
Q	96 in Breakout With Gland
R	96 in Breakout Pulling Grip

UOM

F	Feet
M	Meter

Length

24 in	7-999 ft
48 in	9-999 ft
72 in	11-999 ft
96 in	13-999 ft
24 in	2-999 m
48 in	3-999 m
72-96 in	4-999 m

* Only Available in EMEA

**Not available for the Ultra High Density Fiber Solution

Reusable Pulling Grip Kit


Pulling Grip Kit

Save costs with the Reusable Pulling Grip Kit. This innovative reusable kit allows you to order non-armored trunk cables without pulling grips and order pulling grip kits separately. Since each grip can be reused up to 10 times, these kits reduce the total cost of the installation.

- Easy attachment and removal makes cable installation faster
- Reusability reduces the total cost of the installation
- Non-armored trunk cables ordered with pulling grip attached will come with the reusable grip pre-attached
- Not for use with armored trunk cables
- Pulling grips include color coded labels for easy size recognition

* Kit comes complete with Reusable Pulling Grip, Nylon Cable Ties and Instruction Sheet

Detailed Description	Max. Load	Material ID
InstaPATCH Pulling Grip Kit, 12 Fiber, black label	25 lbf Max. Load	760060541
InstaPATCH Pulling Grip Kit, 24 Fiber, gray label	50 lbf Max. Load	760060558
InstaPATCH Pulling Grip Kit, 48/72 Fiber, blue label	75 lbf Max. Load	760060566
InstaPATCH Pulling Grip Kit, 96/144 Fiber, green label	75 lbf Max. Load	760060574

InstaPATCH® 360 Array Cords

The SYSTIMAX InstaPATCH 360 Array Cords are designed for use with InstaPATCH 360 trunk cables, modules and shelves. Array cords can be terminated with either MPO connectors on both ends or MPO connectors on one end and paired LC, SC or ST (LC and SC are duplex clipped) connectors on the other end. Different from ruggedized fanouts which include an outer sheath to protect the fiber on longer runs between racks, array cords utilize 3.0 mm 12 fiber cordage that is protected with aramid yarn for durability and allowing maximum flexibility within a rack/cabinet.

Designed for two distinct applications, InstaPATCH 360 MPO Array Cords are available in two configurations:

- MPO to MPO for trunk extension, cross-connect applications or patching into parallel transceivers or array equipment
- MPO to paired connectors (LC, SC, ST) for directly connecting equipment to a trunk



LazrSPEED 300 12 Strand Array Cord MPO(f)-LC Plenum



LazrSPEED 300 12 Strand Array Cord MPO(f)-MPO(m) Plenum

Features and Benefits:

- 12 fiber MPO connector based modular design enables simple connections
- Array cords are constructed with LazrSPEED 550, LazrSPEED 300, LazrSPEED 150, OptiSPEED or TeraSPEED fibers
- Factory-terminated and tested for instant field connections and guaranteed quality and performance
- No special or non-standard polarity components
- MPO-LC/SC/ST Array fanouts are constructed with 1.6 mm reinforced zipcord furcation tubing for outstanding durability and dependability
- Array Fanout assemblies are available in with fanout length of 48” for cables over 10 feet; Cables 3-9 feet, 24 inch fanout; Cables 2 feet, 12 inch fanout

InstaPATCH 360 Array Cords Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	Q	X	M	P	L	A	G	D	-	A	E	F	010

Prefix
- **FQ** Array Plenum
- **FR** Array LSZH

Fiber Type
- **X** LazrSPEED 550 Multimode
- **Z** LazrSPEED 300 Multimode
- **H** LazrSPEED 150 Multimode
- **M** OptiSPEED Multimode**
- **W** TeraSPEED Single-mode MC

Connector One
- **MP** MPO (Female No Pins)
- **MX** MPO (Male Pins)

Connector Two
- **MP** MPO (Female No Pins)
- **MX** MPO (Male Pins)
- **LA** LC Angled
- **LC** LC Standard
- **LU** LC Uniboot*
- **SA** SC Angled**
- **SC** SC Standard**
- **ST** STII**
- **MJ** MTRJ**
- **FA** FC Angled**
- **FC** FC Standard**

Cordage Size
- **G** 12 Fiber PmP Array Cord

Fiber Count
- **D** 12 Fiber

Jacket Color
- **E** Slate
- **J** Yellow
- **M** Aqua

Breakout Length
- **A** No Gland
- **D** 12 in Breakout No Gland
- **E** 24 in Breakout No Gland
- **H** 48 in Breakout No Gland
- **L** 72 in Breakout No Gland
- **P** 96 in Breakout No Gland

UOM
- **F** Feet
- **M** Meter

Length
- **12 in** 2-999 ft
- **24 in** 4-999 ft
- **48 in** 6-999 ft
- **72 in** 8-999 ft
- **96 in** 10-999 ft
- **12 in** 1-999 m
- **24-48 in** 2-999 m
- **72 in** 3-999 m
- **96 in** 4-999 m

* Only Available in EMEA

**Not available for the Ultra High Density Fiber Solution

Fiber Optic Patch Cords



LazrSPEED Patch Cord LC-SC
1.6 mm Duplex

The final fiber optic component of your connectivity solution, Fiber Optic Patch Cords support the connection of the backbone fiber cabling plant to the transceiver/optical electronics. Patch cords (a.k.a. jumpers) are also used to cross-connect segments of cabling infrastructure to another.

Made of rugged round or zipcord construction in customer-specified lengths of 2-fiber cable, our patch cords are available in LazrSPEED, OptiSPEED, and TeraSPEED, in any combination of SC, LC and ST connectors.

Features and Benefits:

- Duplex zipcord construction provides better mechanical performance with less risk of damage from crimping
- Rugged 1.6 mm or 3.0 mm cordage for durable and easily handled connections
- Outer jacket colored for easy identification



TeraSPEED Patch Cord LC-SC
1.6 mm Duplex



OptiSPEED Patch Cord LC-ST
1.6 mm Duplex

Physical Specifications:

1.6 mm and 3.0 mm Patch Cords
Outside Diameter (simplex):
1.6 mm: 1.6 mm
3.0 mm: 3.0 mm
Outside Diameter (zip cord):
1.6 mm: 1.6 mm x 3.3 mm
3.0 mm: 3.0 mm x 5.9 mm
Minimum Cable Retention Strength:
1.6 mm: 11.24 lbs (50 N)
3.0 mm: 11.24 lbs (50 N)
Minimum Bend Radius:
1.6 mm: Loaded: 2.0 in (5.1 cm)
Unloaded: 1.4 in (3.5 cm)
3.0 mm: Loaded: 2.3 in (5.8 cm)
Unloaded: 1.4 in (3.5 cm)

Maximum Cordage Tensile Load:
Zipcords: **1.6 mm:** Short Term: 70 lbs (311 N)
Long Term: 21 lbs (93 N)
3.0 mm: Short Term: 90 lbs (400 N)
Long Term: 27 lbs (120 N)
Simplex: **1.6 mm:** Short Term: 35 lbs (156 N)
Long Term: 111 lbs (47 N)
3.0 mm: Short Term: 60 lbs (267 N)
Long Term: 181 lbs (80 N)

Fiber Optic Patch Cords Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	D	X	L	1	L	1	2	1	-	A	X	F	010

Prefix
- **FD** Jumper-Plenum
- **FE** Jumper-Riser
- **FF** Jumper-LSZH

Fiber Type
- **X** LazrSPEED 550 Multimode
- **M** OptiSPEED Multimode**
- **W** TeraSPEED Single-mode

Connector One
- **LC** LC Standard**
- **SC** SC Standard**
- **ST** STII**
- **LA** LC Angled**
- **SA** SC Angled**
- **L1** LC Keyed Red
- **L2** LC Keyed Yellow
- **L3** LC Keyed Blue
- **L4** LC Keyed Green
- **L5** LC Keyed Orange
- **L6** LC Keyed Slate
- **L7** LC Keyed Brown
- **L8** LC Keyed Aqua
- **L9** LC Keyed Rose
- **LV** LC Keyed Violet
- **LU** LC Uniboot*

Connector Two
- **LC** LC Standard**
- **SC** SC Standard**
- **ST** STII**
- **LA** LC Angled
- **SA** SC Angled
- **L1** LC Keyed Red
- **L2** LC Keyed Yellow
- **L3** LC Keyed Blue
- **L4** LC Keyed Green
- **L5** LC Keyed Orange
- **L6** LC Keyed Slate
- **L7** LC Keyed Brown
- **L8** LC Keyed Aqua
- **L9** LC Keyed Rose
- **LV** LC Keyed Violet
- **MJ** MTRJ**
- **FC** FC Standard**
- **FA** FC Angled**
- **LU** LC Uniboot*

Cordage Size
- **2** 1.6mm Simplex
- **3** 3.0mm Simplex
- **4** 1.6mm Zipcord
- **5** 3.0mm Zipcord

Fiber Count
- **1** 1 Fiber
- **2** 2 Fiber

Jacket Color
- **A** Blue
- **B** Orange
- **C** Green
- **D** Brown
- **E** Slate
- **G** Red
- **H** Black
- **J** Yellow
- **K** Violet
- **L** Rose
- **M** Aqua

Breakout Length
- **X** No Breakout

UOM
- **F** Feet
- **M** Meter

Length
- **2 - 999 Feet**
- **1 - 999 Meters**

* Only Available in EMEA
**Not available for the Ultra High Density Fiber Solution

CommScope® Fiber Optic Lockable Patch Cord Kit


Lockable Patch Cord Kit

The kit is field installable and works with keyed and non-keyed duplex LC patch cords only. This is a wedge and release tool kit that consists of 25 wedges and 1 removal tool (a 5 pack of the removal tool is also offered). The Wedge is inserted underneath the latch of a duplex LC connector. After the connector is installed into the adapter the wedge allows movement, but without the removal tool the connection cannot be detached, making it ideal for networks where extra security is needed.

Lockable Fiber Optic Patch Cord Kit

Product Number	Detailed Description	Material ID
Kit-LC Locks & Tool	25 LC Patch cord Locks and 1 Removal Tool Kit	760140293
Kit-LC Removal Tools	LC Lock Removal Tool Kit, 5 Pack	760140301

Fiber Pigtails

Single-ended connectorized buffered fiber for use in splicing to building or outside plant cables. Single-mode and multimode tight buffered pigtails are available in all colors.


Fiber Pigtail


Fiber Pigtail Pack

Fiber Pigtails - Packs of 12

Fiber packs come in standard lengths or 3 meters and are cut to lengths at the job site.

Fiber Pigtails

Product Number	Detailed Description	Material ID
RFT-12BF09-5K-SCU-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers SC Simplex 3 meter length	FAXSCUC0C-XXM003
RFT-12BF09-6F-SCU-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers SC Simplex 3 meter length	FAMSCUC0C-XXM003
RFT-12BF09-8W-SCU-03	SM TeraSPEED colored buffer fiber 12 fibers SC Simplex 3 meter length	FAWSCUC0C-XXM003
RFT-12BF09-8W-SCA-03	SM TeraSPEED, colored buffer fiber 12 fibers SC-APC Simplex 3 meter length	FAWSAUC0C-XXM003
RFT-12BF09-5K-LCR-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers LC Simplex 3 meter length	FAXLCUC0C-XXM003
RFT-12BF09-6F-LCR-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers LC Simplex 3 meter length	FAMLCUC0C-XXM003
RFT-12BF09-8W-LCR-03	SM TeraSPEED, colored buffer fiber 12 fibers LC Simplex 3 meter length	FAWLCUC0C-XXM003
RFT-12BF09-8W-LCA-03	SM TeraSPEED, colored buffer fiber 12 fibers LC-APC Simplex 3 meter length	FAWLAUC0C-XXM003
RFT-12BF09-5K-STU-03	MM 50µm LazrSPEED 550 (OM4), colored buffer fiber 12 fibers ST Simplex 3 meter length	FAXSTUC0C-XXM003
RFT-12BF09-6F-STU-03	MM 62.5µm FDDI Grade, colored buffer fiber 12 fibers ST Simplex 3 meter length	FAMSTUC0C-XXM003
RFT-12BF09-8W-STU-03	SM TeraSPEED, colored buffer fiber 12 fibers ST Simplex 3 meter length	FAWSTUC0C-XXM003

Fiber Pigtails Configurator

1	2	3	4	5	6	7	8	9	10	11	12	13	14-16
F	A	X	L	1	U	C	0	1	-	A	X	F	002

Prefix
- **FA** Pigtail-Tight Buffer
- **FB** Pigtail-Riser SBJ
- **FC** Pigtail-LSZH SBJ

Fiber Type
- **X** LazrSPEED 550 Multimode
- **M** OptiSPEED Multimode
- **W** TeraSPEED Single-mode

Connector One
- **L1** LC Keyed Red
- **L2** LC Keyed Yellow
- **L3** LC Keyed Blue
- **L4** LC Keyed Green
- **L5** LC Keyed Orange
- **L6** LC Keyed Slate
- **L7** LC Keyed Brown
- **L8** LC Keyed Aqua
- **L9** LC Keyed Rose
- **LV** LC Keyed Violet
- **LA** LC Angled
- **LC** LC Standard
- **LU** LC Uniboot*
- **SA** SC Angled
- **SC** SC Standard
- **ST** STII
- **FA** FC Angled
- **FC** FC Standard

Connector Two
- **UC** Unconnectorized

Cordage Size
- **0** 0.9mm (Tight Buffered Fiber) BTW
- **1** 0.9mm (SBJ Cordage)

Fiber Count
- **1** 1 Fiber
- **A** 6 Fiber Pigtail Kit BL-WH (1-6)
- **B** 6 Fiber Pigtail Kit RD-AQ (7-12)
- **C** 12 Fiber Pigtail Kit BL-AQ (1-12)

Jacket Color
- **A** Blue
- **B** Orange
- **C** Green
- **D** Brown
- **E** Slate
- **G** Red
- **H** Black
- **J** Yellow
- **K** Violet
- **L** Rose
- **M** Aqua
- **X** KIT Pigtail

Breakout Length
- **X** No Breakout

UOM
- **F** Feet
- **M** Meter

Length
- **2 - 999 Feet**
- **1 - 999 Meters**

* Only Available in EMEA
Not all combinations are available. Call for details.

InstaPATCH® 360 Attachment Brackets



96 Fiber InstaPATCH 360 Trunk Cable shown with 1000G2-4U-FX Shelf and RMB-6-1/2 Rack Mounted Bracket

All InstaPATCH 360 trunk cables include a cable strain relief fitting allowing the cable to be attached to brackets or to the shelf, providing improved strain relief. When attached by the cable strain relief fitting, the connectorized legs are protected from forces applied to the cable itself. The fitting can attach to the ports at the rear of the G2 1U & 2U shelves, to brackets mounted on the rack, or to brackets mounted on the G2 4U shelf.

Features and Benefits:

- Provides secure attachment of the cable to prevent excessive pulling on the fiber
- Strain relief prevents macrobending and microbending (i.e., loss)
- Adjustable breakout/transition point
- Secure cable management as part of the system, not an after-thought
- Brackets are unpainted stainless steel to allow grounding of the cable armor
- Integrated part of the pulling grip
- Traditional components adopted to a pre-terminated cabling solution
- Common functionality with armored cable assemblies
- Common hand tool installation, no risk to cordage



InstaPATCH 360 Trunk Cables attached to shelf mounted bracket

Product Number	Detailed Description	Material ID
SMB-KIT-8-1/2-360G2	Covers and 1/2" SMBs for 360G2	760128942
SMB-KIT-4-3/4-360G2	Covers and 3/4" SMBs for 360G2	760128959
RMB-6-1/2	Rack mounted bracket, six cables with 1/2" fittings (48, 72, 96 and 144 fiber trunks / 12, 24 and 48 fiber armored trunks)	760058677
RMB-6-3/8	Rack mounted bracket, six cables with 3/8" fittings (12 and 24 fiber trunks)	760058685
RMB-5-3/4	Rack mounted bracket, five cables with 3/4" fittings (72, 96 and 144 fiber armored trunks)	760058701
BGND-12	Grounding kit for use with armored InstaPATCH Plus trunks. Grounding strap and attachments included.	760058693



Rack Mount Bracket

1U and 2U Shelf Accessories



RS-4AF-16SF

Splice Kits

Product Number	Detailed Description	Material ID
RS-2AF-16SF	RoloSplice Kit E/W 2 Fusion Splice Trays, for 1U Shelf	760039867
RS-2AM –12SF	RoloSplice Kit E/W 2 Mechanical Splice Trays, for 1U Shelf	760039859
RS-4AF-16SF	RoloSplice Kit E/W 4 Fusion Splice Trays, for 2U Shelf	760031856
RS-4AM –12SF	RoloSplice Kit E/W 4 Mechanical Splice Trays, for 2U Shelf	760031849
RS-00	RoloSplice, accepts 4 Splice Trays (not included)	760027516
1AMF1-16LG	Fusion Splice Trays, 16 splices per tray, Pack of 10	700006257
1AM1-12LG	Mechanical Splice Trays, 12 splices per tray, Pack of 10	700006240
1AMF1-6LG	Mass Fusion Splice Tray, 6 splices per tray, Pack of 10	700006281

G2 Accessories

Product Number	Detailed Description	Material ID
G2-SRF	G2-SRF (Small-Diameter-Cbl Fitting Kit)	760039875
G2-23BRKT	G2-23BRKT (23-IN Mounting Bracket Kit)	760039883
RMB-6-1/2	Rack Mounted Bracket for Six 1/2" Cable Glands	760058677
RMB-6-3/8	Rack Mounted Bracket for Six 3/8" Cable Glands	760058685
RMB-5-3/4	Rack Mounted Bracket for Five 3/4" Cable Glands	760058701
G2-Fiber Drum Kit	G2-Fiber Drum Kit	760056549
G2-1U-UP-Faceplate	Faceplate, G2 1U Shelf, Accepts 4 G2 Modular Cassettes	760060517
G2 Cover, Metal	G2 Cover, Metal	760055921

360G2 Shelf Accessories

Product Number	Detailed Description	Material ID
360G2-1U-TROUGH	360 1U Trough Assembly Kit	760086215
360G2-2U-TROUGH	360 2U Trough Assembly Kit	760093567

4U Shelf Accessories


SW-6AF-16SF Splice Wallet

360G2 Shelf Accessories

Product Number	Detailed Description	Material ID
360G2-4U-FLK	360 Flip Label Kit for 4U Shelf	760101410
360G2 1U-LABEL	Flip Label Kit for 1U Trough	760105676
360G2-2U-LABEL	Flip Label Kit for 2U Trough	760105684

Splice Kits – 4U Shelves

Product Number	Detailed Description	Material ID
SW-6AF-16SF	Fusion Splice Wallet Kit for up to 96 fibers, includes 6 splice tray - maximum 2 splice wallets per G2-4U for up to 192 fibers	760031054
SW-6AM-12SF	Mechanical Splice Wallet Kit for up to 72 fibers - maximum 2 splice wallets per G2-4U for up to 144 fibers	760031047
SW-00	Splice Wallet, accepts 6 splice trays	760027342
SW-03	Splice Wallet, accepts 3 splice trays	760057059
1AMF1-16LG	Fusion Splice Trays, holds 16 splices each, pack of 10	700006257
1AM1-12LG	Mechanical Splice Trays, holds 12 splices each, pack of 10	700006240
1AMF1-6LG	Mass Fusion Splice Trays, holds 6 splices each, pack of 10	700006281

G2 Accessories

Product Number	Detailed Description	Material ID
G2-CPB	Cable Protector Kit for 4U G2 Shelf	760026674
G2-XCPB	Expanded Cable Protector Kit for 4U G2 Shelf	760058669
G2-SFDA	Smoked Front Door, 4U G2 Shelf	760060442
SMB-KIT-8-1/2-360G2	Covers and 1/2” SMBs for 360G2	760128942
SMB-KIT-4-3/4-360G2	Covers and 3/4” SMBs for 360G2	760128959

SYSTIMAX 360™ Ultra High Density Solutions



InstaPATCH 360 UHD Module 48f LC LazrSPEED



3603D-1U-UP w(3) 3603M-48LC-LS A



CMS-2-02 Fiber Cord Management Sleeve

The SYSTIMAX 360™ Ultra High Density Solution is developed to meet today's most demanding high density and high performance fiber patching applications while also providing design flexibility and a migration path to next generation fiber networks in data centers. With a 50% increase in usable density, the UHD shelf is designed to support the most spacing demanding applications and provide space and cost saving solutions for data center customers.

Developed by CommScope Labs, the SYSTIMAX 360 UHD fiber optic solution is designed to support high density data center applications, such as SAN network areas. Available in LazrSPEED® and TeraSPEED®, the SYSTIMAX 360 UHD data center network fiber solution supports today's most demanding applications, while allowing fast deployment and an easy migration to the next generation technology.

SYSTIMAX 360 Ultra High Density Solution Includes:

- SYSTIMAX 360 Ultra High Density Shelf and Modules
- SYSTIMAX InstaPATCH 360 Modular Panels* – 1U and 4U
- SYSTIMAX InstaPATCH 360 Pre-Terminated Trunk Cables*
- SYSTIMAX InstaPATCH 360 Ruggedized Fanout Cables*
- SYSTIMAX InstaPATCH 360 Array Cords*
- SYSTIMAX Fiber Optic Patch Cords*

At the heart of the UHD solution is the new 360 UHD 1U fiber optic shelf. This shelf features a sliding tray and pivot hinges that enables field mounting of up to three factory-terminated and tested InstaPATCH® 360 UHD modules; each supporting up to 24 duplex LC or 24 (12 fiber) MPO connections. When fully populated, the UHD fiber optic shelf supports 72 duplex LC or 12 fiber MPO adapters – 50% more dense than high density shelves (compared to 48 duplex LC or MPO 1U shelf).

The UHD 1U fiber optic shelf facilitates management of high concentrations of fiber ports in an orderly, scalable product that allows incremental growth when needed as well as easy patch cord access, all in a small footprint shelf in order to conserve hard-to-find
cabinet space.

Features and Benefits:

- 50% increase in usable density
- Available in LazrSPEED and TeraSPEED to support high performance applications
- Same footprint with duplex LC and MPO connections for simple migration from 10G serial to 40/100G parallel transmission
- 1U enhanced cable management features in a 1U footprint include individual fiber management trough per module and removable fiber cord management sleeve to prevent fiber pinching and tangling during MAC activity
- Each 1U shelf accommodates up to three InstaPATCH 360 LC modules for 144 fiber connections; or up to three MPO pass through modules for 864 fiber connections
- Modular design provides design flexibility and allows for a pay as you grow approach
- Allows for rack consolidation increasing space savings in densely populated network areas such as data center SAN environment
- Low Loss factory-terminated and tested module supports rapid deployment and uses OM4 fiber for extended distances or high bandwidth needs
- Supports up to (432) 10GbE, (72) 40GbE connections, or (36) 100GbE channels

***Available in LazrSPEED and TeraSPEED only. The UHD Solution is not available in OptiSPEED®.**

SYSTIMAX 360™ Ultra High Density Shelf and Modules

Product Number	Detailed Description	Material ID
3603D-1U-UP	UHD Fiber Shelf, 1U, Empty	760110999
3603M-48LC-LS	InstaPATCH 360 UHD Module 48f LC LazrSPEED	760111013
3603M-48LC-SM	InstaPATCH 360 UHD Module 48f LC TeraSPEED	760111039
3603P-24MPO	UHD Adapter Panel, 24xMPO	760111153
CMS-2-02	Fiber Cord Management Sleeve	760112003

Pre-Loaded Shelves

Product Number	Detailed Description	Material ID
3603D-1U-144LC-LS-A	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, LazrSPEED, Polarity A	760136457
3603D-1U-144LC-LS-B	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, LazrSPEED, Polarity B	760136465
3603D-1U-144LC-SM-A	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, TeraSPEED, Polarity A	760136432
3603D-1U-144LC-SM-B	UHD Fiber Shelf with 3 InstaPATCH 360 Ultra High Density Modules, 48 fiber, LC, TeraSPEED, Polarity B	760136440
3603D-1U-72MPO	UHD Fiber Shelf with 3 InstaPATCH 360 24 Port MPO Adapter Panels	760136473

SYSTIMAX 360™ G2 Modular Cartridges


360G2 Cartridge 6-LC-LS-AQ-Pigtails

The LC and SC, cartridges and cartridges with pigtails are iPatch Ready; thus allowing a network system to be upgraded with intelligence in the future.

Features and Benefits:

- LC and SC, Cartridges, and Cartridges with Pigtails are iPatch Ready
- 360G2 Cartridges are reverse compatible with current 1000G2 and 600G2 Shelves
- Factory Terminated Fiber Pigtails
- 6 and 12 Fiber configurations for Pigtailed Cartridges
- Supports easy configurations for moves adds and changes
- No special Fiber Patch Cords Required for the iPatch Ready Field Upgrade
- No fiber disconnects to install iPatch Ready Field Upgrade

360G2 Modular Cartridges with Pigtails

Product Number	Detailed Description	Material ID
360G2 Cartridge 12-LC-LS-AQ-Pigtails	360G2 Cartridge 12 LC LazrSPEED, Aqua w/Pigtails, iPatch Ready	760109470
360G2 Cartridge 12-LC-MM-BG-Pigtails	360G2 Cartridge 12 LC OptiSPEED, Beige w/Pigtails, iPatch Ready	760109488
360G2 Cartridge 12-LC-SM-BL-Pigtails	360G2 Cartridge 12 LC TeraSPEED, Blue w/Pigtails, iPatch Ready	760109496
360G2 Cartridge 12-LCA-SM-GR-Pigtails	360G2 Cartridge 12 LCA TeraSPEED, Green w/Pigtails, iPatch Ready	760109504
360G2 Cartridge 6-SC-LS-AQ-Pigtails A	360G2 Cartridge 6 SC LazrSPEED, Aqua w/Pigtails A	760109512
360G2 Cartridge 6-SC-LS-AQ-Pigtails B	360G2 Cartridge 6 SC LazrSPEED, Aqua w/Pigtails B	760109520
360G2 Cartridge 6-SC-MM-BG-Pigtails A	360G2 Cartridge 6 SC OptiSPEED, Beige w/Pigtails A	760109538
360G2 Cartridge 6-SC-MM-BG-Pigtails B	360G2 Cartridge 6 SC OptiSPEED, Beige w/Pigtails B	760109546
360G2 Cartridge 6-SC-SM-BL-Pigtails A	360G2 Cartridge 6 SC TeraSPEED, Blue w/Pigtails A	760109553
360G2 Cartridge 6-SC-SM-BL-Pigtails B	360G2 Cartridge 6 SC TeraSPEED, Blue w/Pigtails B	760109561
360G2 Cartridge 6-SCA-SM-GR-Pigtails A	360G2 Cartridge 6 SCA TeraSPEED, Green w/Pigtails A	760109579
360G2 Cartridge 6-SCA-SM-GR-Pigtails B	360G2 Cartridge 6 SCA TeraSPEED, Green w/Pigtails B	760109587
360G2 Cartridge 6-ST-LS-AQ-Pigtails A	360G2 Cartridge 6 ST LazrSPEED, Aqua w/Pigtails A	760109603
360G2 Cartridge 6-ST-LS-AQ-Pigtails B	360G2 Cartridge 6 ST LazrSPEED, Aqua w/Pigtails B	760109611
360G2 Cartridge 6-ST-MM-BG-Pigtails A	360G2 Cartridge 6 ST OptiSPEED, Beige w/Pigtails A	760109629
360G2 Cartridge 6-ST-MM-BG-Pigtails B	360G2 Cartridge 6 ST OptiSPEED, Beige w/Pigtails B	760109637
360G2 Cartridge 6-ST-SM-BL-Pigtails A	360G2 Cartridge 6 ST TeraSPEED, Blue w/Pigtails A	760109645
360G2 Cartridge 6-ST-SM-BL-Pigtails B	360G2 Cartridge 6 ST TeraSPEED, Blue w/Pigtails B	760109652
360G2-MOD-BLANK-4PK	360G2 Mod Panel Blank (4 Panels)	760109462

360G2 Modular Cartridges without Pigtails

Product Number	Detailed Description	Material ID
360G2 Cartridge 12-LC-LS-AQ	360G2 Cartridge 12 LC LazrSPEED, Aqua, iPatch Ready	760109256
360G2 Cartridge 12-LC-MM-BG	360G2 Cartridge 12 LC OptiSPEED, Beige, iPatch Ready	760109264
360G2 Cartridge 12-LC-SM-BL	360G2 Cartridge 12 LC TeraSPEED, Blue, iPatch Ready	760109272
360G2 Cartridge 12-LCA-SM-GR	360G2 Cartridge 12 LCA TeraSPEED, Green, iPatch Ready	760109280
360G2 Cartridge 6-SC-LS-AQ	360G2 Cartridge 6 SC LazrSPEED, Aqua	760109298
360G2 Cartridge 6-SC-MM-BG	360G2 Cartridge 6 SC OptiSPEED, Beige	760109306
360G2 Cartridge 6-SC-SM-BL	360G2 Cartridge 6 SC TeraSPEED, Blue	760109314
360G2 Cartridge 6-SCA-SM-GR	360G2 Cartridge 6 SCA TeraSPEED, Green	760109322
360G2 Cartridge 6-ST-LS-AQ	360G2 Cartridge 6 ST LazrSPEED, Aqua	760109330
360G2 Cartridge 6-ST-MM-BG	360G2 Cartridge 6 ST OptiSPEED, Beige	760109348
360G2 Cartridge 6-ST-SM-BL	360G2 Cartridge 6 ST TeraSPEED, Blue	760109355

SYSTIMAX 360™ G2 Fiber Modular Distribution Panels


360DP-12LC-LS


360DP-6SC-SM

The LC Modular Distribution Panels are iPatch Ready; thus allowing a network system to be upgraded with intelligence in the future.

Features and Benefits:

- LC Modular Distribution Panels are iPatch Ready
- 360G2 Cartridges and Bezels are reverse compatible with current 1000G2 and 600G2 MOD Shelves
- Supports easy configurations for moves adds and changes
- No special Fiber Patch Cords Required for the iPatch Ready Field Upgrade
- No fiber disconnects to install iPatch Ready Field Upgrade

360G2 Modular Distribution Panels

Product Number	Detailed Description	Material ID
360DP-24LC-LS	360 Distribution Panel 24 LC LazrSPEED	760115907
360DP-24LC-MM	360 Distribution Panel 24 LC OptiSPEED	760115923
360DP-24LC-SM	360 Distribution Panel 24 LC TeraSPEED	760115915
360DP-24LCA-SM	360 Distribution Panel 24 LCA TeraSPEED	760115931
360DP-12LC-LS	360 Distribution Panel 12 LC LazrSPEED, iPatch Ready	760109363
360DP-12LC-MM	360 Distribution Panel 12 LC OptiSPEED, iPatch Ready	760109371
360DP-12LC-SM	360 Distribution Panel 12 LC TeraSPEED, iPatch Ready	760109389
360DP-12LCA-SM	360 Distribution Panel 12 LCA TeraSPEED, iPatch Ready	760109751
360DP-6SC-LS	360 Distribution Panel 6 SC LazrSPEED	760109397
360DP-6SC-MM	360 Distribution Panel 6 SC OptiSPEED	760109405
360DP-6SC-SM	360 Distribution Panel 6 SC TeraSPEED	760109413
360DP-6SCA-SM	360 Distribution Panel 6 SCA TeraSPEED	760109769
360DP-6ST-LS	360 Distribution Panel 6 ST LazrSPEED	760109421
360DP-6ST-MM	360 Distribution Panel 6 ST OptiSPEED	760109439
360DP-6ST-SM	360 Distribution Panel 6 ST TeraSPEED	760109447
360DP-2MPO	360 Distribution Panel 2 MPO	760107490
360DP-4MPO	360 Distribution Panel 4 MPO	760107508
360DP-6MPO	360 Distribution Panel 6 MPO	760107516
360DP-8MPO	360 Distribution Panel 8 MPO	760107524

G2 Front Faceplates



Top: G2-1U-24LC-SPLX-EMT, Bottom: G2-1U-24LC-DPLX-EMT

Used in conjunction with G2 1U shelves, front faceplates accept standard simplex or duplex fiber optic adapters, LC, SC and ST. High-density LC and MPO panels are also available with adapters (Low Profile LC adapters have spring-loaded shutters).

Product Number	Detailed Description	Material ID
G2-1U-48LC-DPLX-LS-AQ	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, LazrSPEED, Aqua	760055988
G2-1U-48LC-DPLX-MM-BG	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, OptiSPEED, Beige	760056044
G2-1U-48LC-DPLX-SM-BL	G2 1U Faceplate, w/48 Duplex Low Profile LC Adapters, TeraSPEED, Blue	760056051
G2-1U-48LCA-DPLX-SM-GR	G2 1U Faceplate, w/48 Duplex Low Profile LC APC Adapters, TeraSPEED, Green	760069336
G2-1U-24LC-DPLX-EMT	G2 1U Faceplate, Accepts 24 Duplex JR/SR LC Adapters	760033845
G2-1U-24LC-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex JR/SR LC Adapters	760033852
G2-1U-24SC-DPLX-EMT	G2 1U Faceplate, Accepts 24 Duplex SC Adapters	760033860
G2-1U-12SC-DPLX-EMT	G2 1U Faceplate, Accepts 12 Duplex SC Adapters	760033878
G2-1U-24SC-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex SC Adapters	760033886
G2-1U-12SC-SPLX-EMT	G2 1U Faceplate, Accepts 12 Simplex SC Adapters	760033894
G2-1U-24ST-SPLX-EMT	G2 1U Faceplate, Accepts 24 Simplex ST Adapters	760033902
G2-1U-12ST-SPLX-EMT	G2 1U Faceplate, Accepts 12 Simplex ST Adapters	760033910

Surface Mount Enclosure for Fiber Optic Applications


SME-4-IP

SYSTIMAX Solutions Surface Mount Enclosure is used for a combination of splicing and termination of fiber optic building cables, outside plant (OSP) cables or InstaPATCH 360 installations. The SME box is a wall-mounted enclosure that is designed to accommodate terminations of up to 96 LC fibers or 48 SC or 24 ST fibers. The enclosure can also be used as splice units to store 96 Single Fusion Splices, 72 Mechanical Splices with the addition of the appropriate splice holders.

Features and Benefits:

- SME has 4 Modular Openings to accept 360DM Modules, 360DP Panels or 360G2 Cartridges
- Security covers for BTW & Patch side
- Mount on wall at various orientations
- User access and behind the wall access are independently secured with separate pad locks (not included)
- Cable mounting with strain relief fitting
- Fiber cable protection on patch side
- RoloSplice kits available
- Cable Clamp compatible (not included)

Physical Specifications:

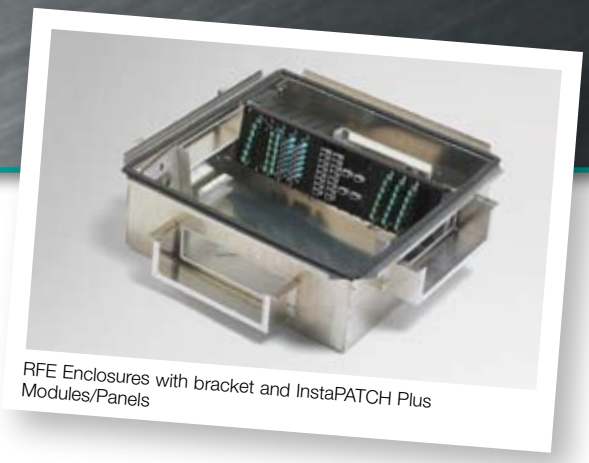
Depth: 3.7 in (9.4 cm)
Height: 11 in (27.9 cm)
Width: 13 in (33.0 cm)
Weight: 13 lbs (5.9 kg)
Cable Capacity: 8
Cable Access Port OD:
Large cable fitting entry 1.050 in (2.667 cm)
Small cable fitting entry 0.550 in (1.397 cm)

Panel System Capacity:

Connection Type	InstaPATCH Plus Module 1000 Series Panel System Capacity	G2 Cartridge System Capacity
LC	96	48
SC	48	24
ST	n/a	24

Product Number	Detailed Description	Material ID
SME-4-G2	Surface mount enclosure configured for four G2 modular components	760060426
RS-2AM-12SF	RoloSplice Kit E/W 2 Mechanical Splice Trays, for 1U Shelf	760039859
RS-2AF-16SF	RoloSplice Kit E/W 2 Fusion Splice Trays, for 1U Shelf	760039867
RS-4AM-12SF	RoloSplice Kit E/W 4 Mechanical Splice Trays, for 1U Shelf	760031849
RS-4AF-16SF	RoloSplice Kit E/W 4 Fusion Splice Trays, for 1U Shelf	760031856

Raised Floor Enclosures (RFE)



RFE Enclosures with bracket and InstaPATCH Plus Modules/Panels

SYSTIMAX® Solutions Raised Floor Enclosures provide for termination and distribution of fiber and low voltage cables beneath a raised floor, such as in a data center or laboratory. These enclosures are designed for installation within the stringer grid of an existing raised floor, which uses common 24" tiles, in accordance with local codes and regulations.

SYSTIMAX Solutions Raised Floor Enclosures feature two pairs of brackets, which provide for 3 rack units (3U or 5.25 in) of space per pair. The brackets may be easily pivoted to facilitate equipment installation and cable dressing/routing and locked into position when completed.

Features and Benefits:

- Installation is invisible—Raised floor enclosure fits under a 2'x2' standard raised floor tile
- Each enclosure features dual pairs of pivoting, threaded equipment mounting brackets, providing for 3 RMU per pair (6 RMU total) of rack-mount space for fiber or copper apparatus
- Enclosures may be safely installed into an air-handling space. Cables entering the enclosure may be sealed with fire-stopping foam strips, which are included.
- RFE-WF-07B enclosure features cable tie points on the floor of the enclosure to provide for easy cable management
- Intumescent foam sealed for fire blocking
- Plenum rated
- Enables zone distribution
- Serves as an Equipment Distribution Point
- Accommodates SYSTIMAX InstaPATCH 360 MP-1U, GigaSPEED® X10D PATCHMAX, 1100 Series, M2000 and M3000 Panels

Product Number	Detailed Description	Material ID
RFE-WF-07A	24"W x 24"L x 7"D Wide Flange Raised Floor Enclosure	760060459
RFE-WF-07B	24"W x 24"L x 7"D Wide Flange Raised Floor Enclosure w/mount for management bracket	760060483
RFE-SF-07A	21.88"W x 21.88"L x 7"D Short Flange Raised Floor Enclosure	760060475
RFE-WF-12A	24"W x 24"L x 12"D Wide Flange Raised Floor Enclosure	760060467
RFE-PB	Floor Box Retrofit Bracket Kit	760041400

Fiber Optic LIUs: 100A3, 200A, 200B, 100LS and 200LS



100A3 LIU Enclosure

The Fiber Optic LIUs are modular enclosures that provide cross-connect and/or inter-connect, splicing and terminating capabilities for outside plant, building and riser cables.

The 100A3 LIU terminates a maximum of 24 fibers using LC connectors and 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 12 mechanical or 16 fusion splices. The 100A3 is made of an engineered white polycarbonate material and can accommodate two connector panels or one splice unit. The 100A3 LIU is both wall and frame mountable (with an optional frame mounting bracket) and feature five retainer rings arranged in a circular configuration to hold slack while not violating minimum bend radius requirements.


Left: 100LS LIU, Right: 200LS LIU

The 200A LIU has similar features as the 100A3 except that it is made of white aluminum and has two additional windows for connector panels. The 200A LIU terminates 48 fibers using LC connectors and 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 24 mechanical splices or 32 fusion splices.

The 200B LIU is used to terminate up to 48 fibers or splice 24 fibers. It is a National Electrical Manufacturers Association (NEMA) 3-rated cabinet. The 200B is a steel enclosure designed for industrial applications. The right side is designed to allow re-arrangement of jumpers or inter-connection to building cable. It comes with a removable outer door and an inner door for securing the network section. The 200B is both wall and frame mountable.

The 400A2 LIU directly terminates up to 96 fibers or accommodates 24 splices plus 48 terminations. The 400A may be ordered with or without key locks.

The wall mountable 100LS LIU is a black enclosure and can accommodate up to 24 fibers using LC connectors and up to 12 fibers using STII or SC connectors. With an optional splicing kit, it can accommodate up to 12 mechanical or 16 fusion splices. The 100LS holds two 10P panels.

The wall mountable 200LS LIU is a black enclosure and can accommodate up to 48 fibers using LC connectors and up to 24 fibers using STII or SC connectors. It can accommodate up to 12 mechanical or fusion splices using an optional splicing kit. The 200LS can accommodate up to 24 mechanical or 32 fusion splices with optional splicing kits, but the fiber termination capacity is decreased to 12 STII+ or SC connections, or 24 LC connections. The 200LS holds four 10P panels.

The LIU adapter panels are ordered separately.

The 742A mounting panel allows up to two 100 or 200 LIUs to be mounted in an inter-connection or cross-connect fashion. The panel may be mounted on either a 19 inch or a 23 inch (48.3 cm or 58.4 cm) frame.

The 1A1 adapter includes a 10 in (25.4 cm) conduit, a T-section, a 90-degree bend, two guides and two mounting screws. The adapter is used to guide and protect fibers running from a 12A-type clamp into two adjacent columns of LIUs. Each 100A3/200A LIU requires one 1A1 adapter. The 12A clamp must be ordered separately.

Physical Specifications:

Height: 100A3, 200A, 100LS, 200LS: 8.75 in (22.22 cm)
200B: 12.6 in (32.0 cm)
Width: 100A3, 200A, 100LS, 200LS: 7.5 in (19 cm)
200B: 17 in (43.18 cm)
Depth: 100A3, 100LS: 3 in (7.62 cm)
200A, 200LS: 4 in (10.16 cm)
200B: 5.25 in (13.34 cm)

LIU Termination and Splice Configuration and Capacity

LIU	No. of Terminations	No. of Splices	Additional Parts Needed
100A3	12 SC/ST (24 LC)	0	2 Panels with Adapters
100LS	12 SC/ST (24 LC)	16	2 Panels with Adapters and 1 Fusion Splice Kit
	0	32	2 Blank Panels and 1 Fusion Splice Kit + 1 Suppl. Kit
200A	24 SC/ST (48 LC)	0	4 Panels with Adapters
200LS	24 SC/ST (48 LC)	16	4 Panels with Adapters and 1 Fusion Splice Kit
200B	12 SC/ST (48 LC)	32	2 Panels with Adapters + 2 Blank Panels, and 1 Fusion Splice Kit + 1 Suppl. Kit
	0	48	4 Blank Panels, 2 Fusion Splice Kits + 1 Suppl. Kit

LIU Shelves

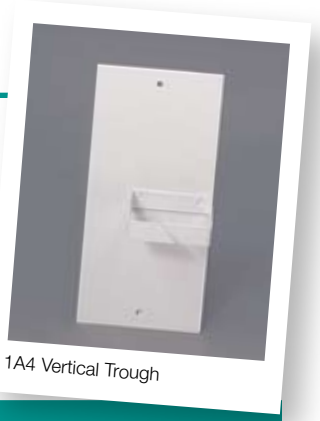
Product Number	Material ID
100A3 LIU	106896947
200A LIU	105535926
200B2 LIU	106939564
400A1 LIU w/o locks	106266901
400A2 LIU w/ locks	106414170
100LS LIU	108548868
200LS LIU	108548876
100A2 LIU E/W ST COUPLERS	106772668
100/200 LIU - Cartridges	760060426
100/200 LIU - Adapters	760060434
100/200 LIU - Modules	760060418
110B2 LIU	107942203
SHLF-210B2 (LIU) CAB 10X	108030347
1A1 LIGHTGUIDE HOLDER	105034474
742A	105483218
1A1 Adapter	105034482
10 BB Blank Panel	760046730

LIU Panels

Product Number	Detailed Description	Material ID
1200-Blank-WH	Blank Panel (5U), Pack of 6	700209653
10PLC-LS	Panel includes 12 LC Adapters, LazrSPEED	108627266
10PLC-MM	Panel includes 12 LC Adapters, OptiSPEED	108491697
10PLC-SM	Panel includes 12 LC Adapters, Single-mode	700025984
10PSC-LS	Panel includes 6 SC Adapters, LazrSPEED	108627274
10PSC-MM	Panel includes 6 SC Adapters, OptiSPEED	108259458
10PSC-SM	Panel includes 6 SC Adapters, Single-mode	700011430
10PST-LS	Panel includes 6 ST Adapters, LazrSPEED	108627282
10PST-MM	Panel includes 6 ST Adapters, OptiSPEED	108259466
10PST-SM	Panel includes 6 ST Adapters, Single-mode	700011422
10LC1-DPLX	Panel for 6 Duplex LC Adapters	107783755
10SC1-DPLX	Panel for 3 Duplex SC Adapters	107025835
10A (ST)	Panel for 6 Simplex ST Adapters	104141858
10 Blank	Blank Panel for 100LIU/200LIU	105276570
10LC Connector Panel	100A3 and 200A LIU and holds 6 Simplex LC Adapters	108365701
10SC1 Panel	100A3 and 200A LIU and holds 6 Simplex SC Adapters	106371800
10FC/04	10 TYPE FC/04 Connector Panel	105310999
10 TYPE	F93AK8524, 10 Type Connector Panel	107005068

Product Number	Detailed Description	Material ID
10SC1 CONN PNL	F94AK8500, 10SC1 Connector Panel L E/W	107212490
LG 10B2/48/24	FANOUT AASY, LG 10B2/48/24	107939902
LGX Lock Set	LGX Lock Set	700011091
FDDI Panel	100A3 and 200A LIU Panel holds 3 MIC-to-ST C4010 Series Adapters	106021470

1A4 and 2A4 Vertical Fiber Optic Trough


1A4 Vertical Trough

The 1A4 and 2A4 Fiber Optic Troughs are vertical aluminum troughs used to arrange fiber patch cords vertically from one LIU to another in a multi-unit fiber cross-connect. The 1A4 trough is used with a 100A3 LIU. The 2A4 vertical trough is used with the 200A LIU. Two mounting screws are included.

Physical Specifications:

Height: 8.75 in (22.2 cm)
Width: 4.0 in (10.2 cm)

Product Number	Detailed Description	Material ID
1A4	For use with 100A3 LIU	104141866
2A4	For use with 200A LIU	106497753

1A6 and 2A6 Horizontal Fiber Optic Trough


1A6 Horizontal Trough

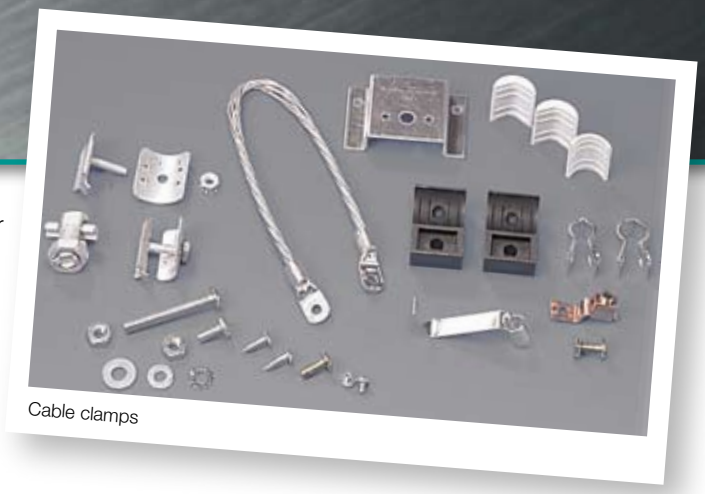
The 1A6 and 2A6 Fiber Optic Troughs are horizontal aluminum troughs used to arrange patch cords so they run horizontally between Fiber Optic Interconnection Units (LIUs) or 1A4 or 2A4 Troughs. The 1A6 Fiber Optic Troughs may be used with 100A3 LIUs and 1A4 Fiber Optic Troughs. The 2A6 Fiber Optic Trough is used to connect vertical columns of 200A LIUs and 1A6 Jumper Troughs. The 2A6 Trough should be specified with single columns when protection and retention of cross-connect jumper cable slack is needed. Two mounting screws are included.

Physical Specifications:

Height: 1A6: 4.0 in (10.2 cm)
2A6: 5.0 in (12.7 cm)
Width: 11.5 in (29.2 cm)
Depth: 1A6: 4.0 in (10.2 cm)
2A6: 5.0 in (12.7 cm)

Product Number	Detailed Description	Material ID
1A6	For use with 100A3 LIU	104141874
2A6	For use with 200A LIU	106497761

12A Grounding Clamp


Cable clamps

The 12A1 Clamp is used to secure and ground one fiber optic metallic sheath cable. The clamp consists of a mounting bracket, two plastic half-clamps and suitable grounding hardware.

The 12A2 Clamp is similar to the 12A1 Clamp, but it does not include bonding and grounding hardware. The 12A2 Clamp is intended for use on non-metallic sheath fiber optic cables.

Product Number	Detailed Description	Material ID
12A1 Clamp	Clamp for Metallic Sheath Cable	700025513
12A2 Clamp	Clamp for Dielectric Sheath Cable	700025653

D-181706 and D-181707 Mechanical and Fusion Splice Adapter Kits


D-181706 Splice Adapter Kit

The D-181706 and D-181707 Splice Adapter Kits adapt the 100, 200 and 400 LIUs for mechanical and fusion splicing, respectively. One D-Kit is required for the first 12 fibers, and one supplemental kit per unit is required for each additional set of 12 fibers.

D-181706 and D-181707 include Bracket Support with Screws (1), Drum Adapter (1), Splice Tray (1), PVC Tubing (1), Mechanical or Fusion Splice Organizer (1) and Instruction Sheet (1).

Supplemental Kits include Splice Tray (1), PVC Tubing (1) and Mechanical or Fusion Splice Organizer (1).

Product Number	Detailed Description	Material ID
D-181706	Mechanical Splice Kit	105289656
	Supplemental Mechanical Splice Kit	106726714
D-181707	Fusion Splice Kit	105289664
	Supplemental Fusion Splice Kit	106726706
LT1A-F/F	Fusion Splice Organizer Tray (Retains 32 Splices)	700025588
LT1A-M/M	Mechanical Splice Organizer Tray (Retains 24 Splices)	700217045
	Splice Tray Holder	700005069

Keyed LC Connectors


Keyed LC Connectors

Today's facilities often employ more than one network and need mechanical security to limit access and prevent inadvertent cross-connection. The Keyed LC Connectors offer a tamper-proof design, reducing the chance of unauthorized connections. Ten connector-adapter combinations exist, identified by color, and in order for a connection to be possible, the connector and adapter colors must match. If the colors do not match, the keying features will prevent the connector from carrying the signal. Keyed LC connectors will not mate with standard LC adapters, only the matching, same-color keyed adapter will mate with keyed connector.

Features and Benefits:

- Duplex LC adapter mounts in the same footprint as a simplex SC adapter (See adapter section for information)
- Small form factor is half the size of standard connectors
- RJ-style housing
- Single-fiber ferrule for maintaining proper polarity
- Pull-proof for jumper
- UPC finish
- Minimal polish
- Standards compliant
- Standard Uniprise installation procedure
- Ten keys in distinct colors
- Available in Behind the Wall (BTW), Simplex Jumper and Duplex Jumper versions
- Doubles density
- Disengages easily in dense spaces
- Maintains transmit/receive direction
- Maintains optical contact
- Helps minimize transmission problems
- Improves durability and reduces cross-connect rearrangement effort
- Reduces installation time for field-mountable connectors

LC Series Connectors

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Blue	1	760102327
MFC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Green	1	760102335
MFC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Red	1	760102343
MFC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Yellow	1	760102350
MFC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Aqua	1	760102368
MFC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Rose	1	760102376
MFC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Brown	1	760102384
MFC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Slate	1	760102392
MFC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Violet	1	760102400
MFC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, MM	Orange	1	760102418
MDC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Blue	2	760102434
MDC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Green	2	760102442
MDC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Red	2	760102459
MDC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Yellow	2	760102467
MDC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Aqua	2	760102475
MDC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Rose	2	760102483
MDC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Brown	2	760102491
MDC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Slate	2	760102509
MDC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Violet	2	760102517
MDC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, MM	Orange	2	760102525
MFC-LCR-09-KBL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Blue	1	760102541
MFC-LCR-09-KGR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Green	1	760102558
MFC-LCR-09-KRD	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Red	1	760102566
MFC-LCR-09-KYL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Yellow	1	760102574
MFC-LCR-09-KAQ	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Aqua	1	760102582
MFC-LCR-09-KRO	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Rose	1	760102590

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFC-LCR-09-KBR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Brown	1	760102608
MFC-LCR-09-KSL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Slate	1	760102616
MFC-LCR-09-KVI	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Violet	1	760102624
MFC-LCR-09-KOR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, MM	Orange	1	760102632
SFC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Blue	1	760102657
SFC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Green	1	760102665
SFC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Red	1	760102673
SFC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Yellow	1	760102681
SFC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Aqua	1	760102699
SFC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Rose	1	760102707
SFC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Brown	1	760102715
SFC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Slate	1	760102723
SFC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Violet	1	760102731
SFC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage, SM	Orange	1	760102749
SDC-LCR-16-KBL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Blue	2	760102764
SDC-LCR-16-KGR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Green	2	760102772
SDC-LCR-16-KRD	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Red	2	760102780
SDC-LCR-16-KYL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Yellow	2	760102798
SDC-LCR-16-KAQ	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Aqua	2	760102806
SDC-LCR-16-KRO	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Rose	2	760102814
SDC-LCR-16-KBR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Brown	2	760102822
SDC-LCR-16-KSL	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Slate	2	760102830
SDC-LCR-16-KVI	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Violet	2	760102848
SDC-LCR-16-KOR	Keyed LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage, SM	Orange	2	760102855
SFC-LCR-09-KBL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Blue	1	760102897
SFC-LCR-09-KGR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Green	1	760102905
SFC-LCR-09-KRD	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Red	1	760102913
SFC-LCR-09-KYL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Yellow	1	760102921
SFC-LCR-09-KAQ	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Aqua	1	760102939
SFC-LCR-09-KRO	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Rose	1	760102947
SFC-LCR-09-KBR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Brown	1	760102954
SFC-LCR-09-KSL	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Slate	1	760102962
SFC-LCR-09-KVI	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Violet	1	760102970
SFC-LCR-09-KOR	BTW Keyed LC Connector, Pre-radiused, for 0.9mm Fiber, SM	Orange	1	760102988

EZ-LC Connectors®



Top to bottom: cordage simplex, cordage duplex, BTW connector

The EZ-LC Connector® is a small form factor connector that is half the size of ST or SC connectors, yet has superior optical performance and reduced installation time. It uses the familiar insertion release mechanism similar to an RJ-45 plug and has a pull-proof design. The EZ-LC Connector allows engineers to design optical fiber infrastructures suited to the low loss needs of the High-Speed Data Networks. The EZ-LC Connector offers a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, multimode and single-mode fiber.

The Pre-Radius LC connector is the recommended connector for all SYSTIMAX installations. The Pre-Radius LC connector provides for faster installation, uses less polishing papers than the flat end-face connector and yields superior end-face geometry.

The superior insertion loss performance offered by the LC connector makes it the ideal connector for gigabit applications including all proposed 10 gigabit Ethernet specifications for multimode and single-mode fiber. The 0.9 mm fiber connector is designed to allow for the simple and speedy termination of the connector onto 0.9 mm fiber. So, whether terminating a cable into a patch panel, connection box or outlet, the LC connector offers the best-in-class solution.

The D-182959 upgrade kit (700005853), used in conjunction with tool kits 1032B5 or 1032F1, provides the necessary tools to terminate LC connectors to 0.9 mm buffered fiber or 1.6 mm cordage. For termination to 0.9 mm buffered fiber only, the D-182905 upgrade kit (700005895) may be used with the 1032B5 or 1032F1 kits. The 1032H mini tool kit (700005838) may be used to terminate LC connectors to 0.9 mm buffered fiber using the EZ anaerobic adhesive method. Additionally, the appropriate consumable kits are required to complete terminations.

The Pre-Radiused LC and the flat end-face LC use two different consumable kits and instructions. Please refer to the Fiber Optic connector consumable kit section in the catalog for details or reference the instruction sheets for the appropriate connector from the SYSTIMAX Solutions Web Site Instruction Sheets.

Physical Specifications:

Length: 1.259 in (3.2 cm)
Tip: Ceramic

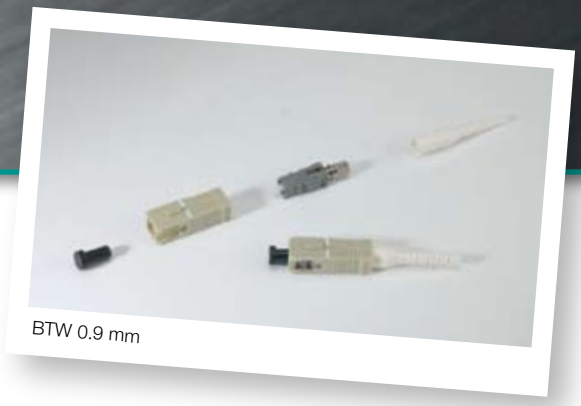
Optical Specifications:

Multimode: Average Loss: 0.1 dB Standard deviation 0.1 dB
Single-mode: Average Loss: 0.2 dB Standard deviation 0.1 dB
Insertion Loss Change: <0.3 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability -40°F to 167°F (–40°C to 75°C)
Cable Retention: 2 lbs for buffered fiber, 10 lbs for 1.6 mm cordage

LC Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
MFC-LCR-09-BG	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	1	760034181
MFC-LCR-09-BG-100-BULK-PACK	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	100	760091546
SFC-LCR-09-BL	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	1	760034199
SFC-LCR-09-BL-100-BULK-PACK	BTW LC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	100	760031401
MFC-LCR-16-BG	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	1	760034140
MFC-LCR-16-BG-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	100	760091553
MFC-LCR-30-BG	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760111476
MFC-LCR-30-BG-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760111484
SFC-LCR-16-BL	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	1	760034173
SFC-LCR-16-BL-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	100	760091561
SFC-LCR-30-BL	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	1	760111492
SFC-LCR-30-BL-100-BULK-PACK	LC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	100	760111500
MDC-LCR-16-BG	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	2	760034157
MDC-LCR-16-BG-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	200	760034165
MDC-LCR-30-BG	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	2	760111518
MDC-LCR-30-BG-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	200	760111526
SDC-LCR-16-BL	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	2	760091439
SDC-LCR-16-BL-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	200	760091447
SDC-LCR-30-BL	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	2	760111534
SDC-LCR-30-BL-100-BULK-PACK	LC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	200	760111542

EZ-SC Connectors®


BTW 0.9 mm

The EZ-SC Connector® is a square body fiber optic connector, with great optical performance and fast installation time. It uses a push-pull design, which allows for quick and easy insertions into patch panels and adapters. The physical and optical performance of the EZ-SC allows engineers to design optical fiber infrastructures suited to the low loss needs of the High-Speed Data Networks. The EZ-SC Connector offers a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, 2.9 mm fiber cordage, multimode and single-mode fiber.

SC connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kit. When mounting to only 0.9 mm buffered fiber, the 1032H Tool Kit may be used.

Physical Specifications:

Length: B Series: 2.05 in (5.2 cm) for 900 µm application
B Series: 2.2 in (5.6 cm) for 3 mm application
Operating Temperature: -40°F to 185°F (-40°C to 85°C)
Min. Axial Load: Cable: 29.92 lbs (13.6 kg)
Buffer: 1.98 lbs (0.9 kg)

Optical Specifications:

Average Loss: Multimode: 0.3 dB
Single-mode: 0.2 dB (tuned), 0.3 dB (untuned) for SC connectors
Maximum Loss: MM and SM: 0.5 dB
Mating Durability: Insertion loss change for 200 reconnects: <0.3 dB (test per Telcordia GR326)
Temperature Stability (-40°C to 75 °C): ≤0.3 dB increase

SC Series Connectors

Product Number	Detailed Description	Fiber Type	Color	Qty/Pkg	Material ID
MFC-SCR-09-BG	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	1	760007070
MFC-SCR-09-BG-100-BULK-PACK	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	MM	Beige	100	760007088
SFC-SCR-09-BL	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	1	760007112
SFC-SCR-09-BL-100-BULK-PACK	BTW SC Connector, Pre-radiused, for 0.9mm Fiber	SM	Blue	100	760009562
MFC-SCR-16-BG	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	1	760112227
MFC-SCR-16-BG-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	MM	Beige	100	760112235
MFC-SCR-30-BG	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760007047
MFC-SCR-30-BG-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	MM	Beige	1	760007054
SFC-SCR-16-BL	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	1	760112243
SFC-SCR-16-BL-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 1.6mm Cordage	SM	Blue	100	760112250
SFC-SCR-30-BL	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	1	760007096
SFC-SCR-30-BL-100-BULK-PACK	SC Connector, Pre-radiused, Simplex, for 3.0mm Cordage	SM	Blue	100	760019554
MDC-SCR-16-BG	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	2	760112268
MDC-SCR-16-BG-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	MM	Beige	200	760112276
MDC-SCR-30-BG	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	2	760112284
MDC-SCR-30-BG-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	MM	Beige	200	760112292
SDC-SCR-16-BL	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	2	760112300
SDC-SCR-16-BL-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 1.6mm Cordage	SM	Blue	200	760112318
SDC-SCR-30-BL	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	2	760112326
SDC-SCR-30-BL-100-BULK-PACK	SC Connector, Pre-radiused, Duplex, for 3.0mm Cordage	SM	Blue	200	760112334

EZ-ST Connectors®


MFC-STU

The EZ-ST Connector® is a convenient twist lock connector with a nickel plated brass outer housing designed for applications where the added security of a twist lock connection is needed. The EZ-ST Connector offers solid performance, standard density and a complete connection solution with a product range designed for field termination onto 900 micron fiber, 1.6 mm fiber cordage, 2.9 mm fiber cordage, multimode and single-mode fiber.

STII Connector plugs can be mounted on fibers in the field using the 1032B5, 1032B6 or 1032F1 Tool Kits. The 1032H Tool Kit may be used when mounting connectors on 0.9 mm fiber.

Physical Specifications:

Length: 2.2 in (5.6 cm)
Temperature Stability -40°F to 185°F (-40°C to 85°C): <0.1 dB increase
Loss Repeat (500 Reconnectors): <0.2 dB
Min. Axial Load: Cable: 35 lbs (15.9 kg)

Optical Specifications:

Multimode Average Loss: 0.3 dB
Single-mode Average Loss: 0.3 dB

STII Connectors

Product Number	Detailed Description	Fiber Type	Cordage OD (mm)	Qty/Pkg	Material ID
MFC-STU	ST II Connector, Pre-radiused	MM	0.9/2.4/3.0	1	700004328
MFC-STU-100-BULK	ST II Connector, Pre-radiused	MM	0.9/2.4/3.0	100	700004310
SFC-STU	ST II Connector, Pre-radiused	SM	0.9/2.4/3.0	1	700011067
SFC-STU-100-BULK	ST II Connector, Pre-radiused	SM	0.9/2.4/3.0	100	760113241

Qwik II-LC Connector®
Qwik II-SC Connector®
Qwik II-ST Connector®


Qwik II Connectors

The SYSTIMAX Qwik LC/SC/ST II Connectors are factory pre-polished, field installable connectors that eliminate the need for hand polishing in the field. Proven mechanical splice technology ensures precision fiber alignment. A factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low loss termination to either single-mode or multimode optical fibers.

Applications:

- High Speed applications such as 10 Gigabit Ethernet
- Multimode and Single-mode
- Central Offices, Local Area Networks (LAN), computer backplane connections, computer peripheral interconnections

Features and Benefits:

- Compatible with 250µm and 900µm optical fibers
- Color coded per industry standard requirements to aide in identification during and after installation
- Factory-installed wedge clip is included with each connector
- Wedge is removed and discarded upon completion of the termination
- An innovative translucent wedge enables the use of a common VFI to provide a “pass/fail” signal once physical contact is achieved
- Comes packaged in a 25 counter installer pack or individual bags.

Physical Specifications:

Length: LC, 1.25 in (3.18 cm), SC 2.05 in (5.2 cm), ST 2.2 in (5.6 cm)
Tip: Ceramic

Optical Specifications:

Average Loss MM & SM: LC 0.2 dB, SC 0.3 dB, ST 0.3 dB
Insertion Loss Change:
LC: <0.2 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability –14˚ F to 140˚F (-10˚C to 60˚C)
SC & ST: <0.3 dB Mating durability for 500 reconnect
<0.3 dB Temperature stability –14 F to 140˚F (-10˚C to 60˚C)
Cable Retention: 2 lbs for buffered fiber

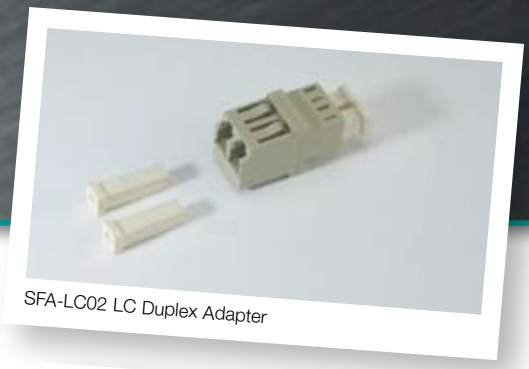
Product Number	Detailed Description	Material ID
MFC-LCF-09-5X	Qwik II-LC BTW Connector, LS	760117887
MFC-LCF-09-5X-25-PACK	Qwik II-LC BTW Connector, LS 25 Blister Pack	760117911
MFC-LCF-09-6X	Qwik II-LC BTW Connector, OS	760117903
MFC-LCF-09-6X-25-PACK	Qwik II-LC BTW Connector, OS 25 Blister Pack	760117937
MFC-SCF-09-5X	Qwik II-SC BTW Connector, LS	760117945
MFC-SCF-09-5X-25-PACK	Qwik II-SC BTW Connector, LS 25 Blister Pack	760117978
MFC-SCF-09-6X	Qwik II-SC BTW Connector, OS	760117960
MFC-SCF-09-6X-25-PACK	Qwik II-SC BTW Connector, OS 25 Blister Pack	760117994
MFC-STF-09-5X	Qwik II-ST BTW Connector, LS	760118000
MFC-STF-09-5X-25-PACK	Qwik II-ST BTW Connector, LS 25 Blister Pack	760118034
MFC-STF-09-6X	Qwik II-ST BTW Connector, OS	760118026
MFC-STF-09-6X-25-PACK	Qwik II-ST BTW Connector, OS 25 Blister Pack	760118059
SFC-LCF-09-8X	Qwik II-LC BTW Connector, TS	760117895
SFC-LCF-09-8X-25-PACK	Qwik II-LC BTW Connector, TS 25 Blister Pack	760117929
SFC-SCF-09-8X	Qwik II-SC BTW Connector, TS	760117952
SFC-SCF-09-8X-25-PACK	Qwik II-SC BTW Connector, TS 25 Blister Pack	760117986
SFC-STF-09-8X	Qwik II-ST BTW Connector, TS	760118018
SFC-STF-09-8X-25-PACK	Qwik II-ST BTW Connector, TS 25 Blister Pack	760118042

Accessories

Detailed Description	Material ID
QK-TERM-TOOL-KIT-QWIK II	760119131
Cleaver, Fiber Optic	760070706
Qwik-LC Fiber Holder/Template	760070672
Qwik-SC Fiber Holder/Template	760070680
Qwik-ST Fiber Holder/Template	760070698

Fiber Optic Adapters

Fiber optic adapters are used in conjunction with the fiber optic panels to ensure proper alignment of the fibers when mating two connectors. The adapters are offered in multimode and single-mode and are color-coded for easy fiber identification. The adapters are generally offered as individually packed with dust cap included. For selected adapters, packages of 100 adapters are offered.


SFA-LC02 LC Duplex Adapter


MFA-ST01 ST Adapter


MFA-SC02-BG SC Duplex Adapter


Keyed LC Adapters

Keyed LC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
KFA-LC02-KAQ	LC Duplex Adapter, Keyed	Aqua	1	760090621
KFA-LC02-KBL	LC Duplex Adapter, Keyed	Blue	1	760057190
KFA-LC02-KBR	LC Duplex Adapter, Keyed	Brown	1	760090647
KFA-LC02-KGR	LC Duplex Adapter, Keyed	Green	1	760057208
KFA-LC02-KOR	LC Duplex Adapter, Keyed	Orange	1	760090670
KFA-LC02-KRD	LC Duplex Adapter, Keyed	Red	1	760057216
KFA-LC02-KRO	LC Duplex Adapter, Keyed	Rose	1	760090639
KFA-LC02-KSL	LC Duplex Adapter, Keyed	Slate	1	760090654
KFA-LC02-KVI	LC Duplex Adapter, Keyed	Violet	1	760090662
KFA-LC02-KYL	LC Duplex Adapter, Keyed	Yellow	1	760057224

LC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-LC01-AQ	LC Adapter, Simplex, LazrSPEED	Aqua	1	760025338
MFA-LC01-BG	LC Adapter, Simplex, OptiSPEED	Beige	1	700002173
SFA-LC01-BL	LC Adapter, Simplex, TeraSPEED	Blue	1	700002132
AFA-LC01-GR	LC Adapter, Simplex, APC	Green	1	760036293
MFA-LC02-AQ	LC Adapter, Duplex, LazrSPEED	Aqua	1	108622887
MFA-LC02-BG	LC Adapter, Duplex, OptiSPEED	Beige	1	700002355
SFA-LC02-BL	LC Adapter, Duplex, TeraSPEED	Blue	1	700002215
AFA-LC02-GR	LC Adapter, Duplex, APC	Green	1	760036301
MFA-LC02-AQ-100-BULK-PACK	LC Adapter, Duplex, LazrSPEED, Bulk Pack	Aqua	100	760113134
MFA-LC02-BG-100-BULK-PACK	LC Adapter, Duplex, OptiSPEED, Bulk Pack	Beige	100	760115196
SFA-LC02-BL-100-BULK-PACK	LC Adapter, Duplex, TeraSPEED, Bulk Pack	Blue	100	760115204

LC Low Profile Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-LC02-AQ/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, LazrSPEED	Aqua	1	760056002
MFA-LC02-BG/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, OptiSPEED	Beige	1	760056010
SFA-LC02-BL/LP-SHUTTERED	LC Adapter, Duplex, Shuttered TeraSPEED	Blue	1	760056028
AFA-LC02-GR/LP-SHUTTERED	LC Adapter, Duplex, Shuttered, APC	Green	1	760056036
MFA-LC02-AQ/LP	LC Adapter, Duplex, Non-Shuttered, LazrSPEED	Aqua	1	760115212
MFA-LC02-BG/LP	LC Adapter, Duplex, Non-Shuttered, OptiSPEED	Beige	1	760115220
SFA-LC02-BL/LP	LC Adapter, Duplex, Non-Shuttered, TeraSPEED	Blue	1	760115238
AFA-LC02-GR/LP	LC Adapter, Duplex, Non-Shuttered, APC	Green	1	760115246
MFA-LC02-AQ/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, LazrSPEED, Bulk Pack	Aqua	50	760115253
MFA-LC02-BG/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, OptiSPEED, Bulk Pack	Beige	50	760115279
SFA-LC02-BL/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, TeraSPEED, Bulk Pack	Blue	50	760115261
AFA-LC02-GR/LP-50-BULK-PACK-SHUTTERED	LC Adapter, Duplex, Shuttered, APC, Bulk Pack	Green	50	760115287
MFA-LC02-AQ/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Aqua	50	760113142
MFA-LC02-BG/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Beige	50	760113167
SFA-LC02-BL/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, Bulk Pack	Blue	50	760113159
AFA-LC02-GR/LP-50-BULK-PACK	LC Adapter, Duplex, Non-Shuttered, APC, Bulk Pack	Green	50	760113175

SC Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-SC01-AQ	SC Adapter, Simplex, LazrSPEED	Aqua	1	760115543
MFA-SC01-BG	SC Adapter, Simplex, OptiSPEED	Beige	1	108223181
SFA-SC01-BL	SC Adapter, Simplex, TeraSPEED	Blue	1	700004807
AFA-SC01-GR	SC Adapter, Simplex, APC	Green	1	760036277
MFA-SC02-AQ	SC Adapter, Duplex, LazrSPEED	Aqua	1	108622895
MFA-SC02-BG	SC Adapter, Duplex, OptiSPEED	Beige	1	700004880
SFA-SC02-BL	SC Adapter, Duplex, TeraSPEED	Blue	1	700004815
AFA-SC02-GR	SC Adapter, Duplex, APC	Green	1	760036285
MFA-SC02-AQ-100-BULK-PACK	SC Adapter, Duplex, LazrSPEED, Bulk Pack	Aqua	50	760115550
MFA-SC02-BG-100-BULK-PACK	SC Adapter, Duplex, OptiSPEED, Bulk Pack	Beige	50	760115576
SFA-SC02-BL-100-BULK-PACK	SC Adapter, Duplex, TeraSPEED, Bulk Pack	Blue	50	760115584

SC Flangeless Adapters

Product Number	Detailed Description	Color	Qty/Pkg	Material ID
MFA-SC01-AQ-FLANGELESS	LC Adapter, Simplex, Flangeless, LazrSPEED	Aqua	1	760115592
MFA-SC01-BG-FLANGELESS	LC Adapter, Simplex, Flangeless, OptiSPEED	Beige	1	760115568
SFA-SC01-BL-FLANGELESS	LC Adapter, Simplex, Flangeless, TeraSPEED	Blue	1	700004799
AFA-SC01-GR-FLANGELESS	LC Adapter, Simplex, Flangeless, APC	Green	1	760115667
MFA-SC02-AQ-FLANGELESS	LC Adapter, Duplex, Flangeless, LazrSPEED	Aqua	1	760115600
MFA-SC02-BG-FLANGELESS	LC Adapter, Duplex, Flangeless, OptiSPEED	Beige	1	760115626
SFA-SC02-BL-FLANGELESS	LC Adapter, Duplex, Flangeless, TeraSPEED	Blue	1	760115642
AFA-SC02-GR-FLANGELESS	LC Adapter, Duplex, Flangeless, APC	Green	1	760115675
MFA-SC02-AQ-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, LazrSPEED, Bulk Pack	Aqua	50	760115618
MFA-SC02-BG-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, OptiSPEED, Bulk Pack	Beige	50	760115634
SFA-SC02-BL-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, TeraSPEED, Bulk Pack	Blue	50	760115659
AFA-SC02-GR-FLANGELESS-50-BULK-PACK	LC Adapter, Duplex, Flangeless, APC, Bulk Pack	Green	50	760115683

ST Adapters

Product Number	Detailed Description	Fiber Type	Qty/Pkg	Material ID
MFA-ST01	ST Adapter, Hex Nut	MM	1	700004864
SFA-ST01	ST Adapter, Hex Nut	SM	1	700011133
MFA-ST01-100-BULK-PACK	ST Adapter, Hex Nut, Bulk Pack	MM	100	700004906
SFA-ST01-100-BULK-PACK	ST Adapter, Hex Nut, Bulk Pack	SM	100	700011075
MFA-ST01-CMN	ST Adapter, Circular Nut	MM	1	700004914
SFA-ST01-CMN	ST Adapter, Circular Nut	SM	1	760000638
MFA-ST01-CMN-100-BULK-PACK	ST Adapter, Circular Nut, Bulk Pack	MM	100	760116756
SFA-ST01-CMN-100-BULK-PACK	ST Adapter, Circular Nut, Bulk Pack	SM	100	760116764

M81 Series Modular Fiber Optic Adapter with Mounting Module


M81LS-LS (faceplate not included)

The M81 M-Series Modular Coupling/Adapter modules are intended to be used as fiber optic outlets for FTTD applications.

The M81LS duplex adapters include an integrated fiber management spool that provide a duplex LC connection with fiber management. The adapters can be used in modular faceplates as shown in the picture. They are color-coded for ease of fiber type identification, and provide slack management to maintain proper bend radius behind the wall.

The M81ST-B adapter module comes packaged with an M81 type mounting module with a circular opening and an ST fiber optic Coupling/Adapter (A2000 multimode). The ST Coupling/Adapter is mounted on the module via a locking washer and nut. The assembly mates two STII fiber optic connectors.

The M81SC-B adapter module comes packaged with an M81 type mounting module with a rectangular opening and a simplex SC fiber optic Coupling/Adapter (C6000A-5). The SC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. The assembly mates two simplex SC fiber optic connectors.

The M81ST-B and the M81SC-B contain four collars: black, ivory, white and gray. The M81LC-029 is clear.

The M81LC-029 adapter module comes packaged with an M81 type mounting module with a rectangular opening and an LC adapter. The LC Coupling/Adapter snaps into the rectangular opening of the M81 type mounting module. A minimum 1.5 inch diameter fiber bend radius behind the adapter is recommended.

The M81LCS-LS comes with a M81 type mounting module and an aqua duplex LC adapter with spring loaded shutters.

Once assembled, the coupling/adapter modules can be mounted in any of the CommScope faceplates, surface mount boxes, consolidation point boxes, M1000 MULTIMAX panels, frames or mounting collars.

Physical Specifications:

Height: M81ST-B, M81SC-B: 0.69 in (17 mm)
M81LC-029: 0.69 in (17 mm)
Width: M81ST-B, M81SC-B: 0.73 in (18 mm)
M81LC-029: 0.65 in (16 mm)
Depth: M81ST-B, M81SC-B: 0.39 in (9.6 mm)
M81LC-029: 0.3 in (7.4 mm)

Product Number	Detailed Description	Fiber Type	Color	Material ID
M81LS-MM Spool	LC Duplex Adapter w/ Fiber Spool	MM	Beige	108562174
M81LS-SM Spool	LC Duplex Adapter w/ Fiber Spool	SM	Blue	700007420
M81LS-LS Spool	LC Duplex Adapter w/ Fiber Spool	MM	Aqua	108623109
M81SC-B	SC Coupling/Adapter with Mounting Module	SM/MM	Blue	108009416
M81ST-B	ST Coupling/Adapter with Mounting Module	MM	Metal	108009408
M81LC-029	LC Adapter with Clear Collar	MM	Beige	107782641
M81LC-029-Collar	Clear Plastic Collar for LC, Pack of 25		Clear	760010090
M81LCS-LS	Shuttered LC Adapter Kit	MM	Aqua	760031989

EZ Mini Tool Kit for LC, SC and ST Connectors



1032H Mini Tool Kit

The 1032H Mini Tool Kit is intended for connectorization of buffered fiber with LC, SC and ST multimode or single-mode connectors using the anaerobic (EZ) method.

The kit does not contain the crimp tool for cordage connectorization.

Crimp tool must be ordered separately. Adhesive and polishing paper must be ordered separately.

Product Number	Detailed Description	Material ID
1032H Mini Tool Kit	Tool Kit for Anaerobic EZ LC/SC/ST BTW connectors	700005838
D-182737 Tool Upgrade Kit	Upgrades 1032B, 1032B1 and 1032F Tool Kits	700005952

Epoxy and Polish Tool Kits for LC, SC and STII Connectors



1032B5

The 1032B5 Tool Kit contains all the tools needed to assemble ST or SC on cordage or buffered fiber using EZ or epoxy methods. The Tool Kit will also provide necessary tools and instructions to field assemble LC multimode or single-mode connectors on 900 micron buffered fiber. LC connectors can be assembled along with use of D-182959 LC connector termination upgrade tool kit. A 200A 120 VAC Curing Oven is included.

The 1032B6 Tool Kit is for international use, where the only difference from the 1032B5 is that the 200A Curing Oven is replaced by the 200A1 220 VAC Curing Oven.



D-182959 KIT

Product Number	Detailed Description	Material ID
1032B5	Tool Kit SC/LC/ST Connector Heat Cure Epoxy (North America)	700006026
1032B6	Tool Kit SC/ST Connector Heat Cure Epoxy (International)	700005960
1032F1	EZ SC/ST Tool Kit (Curing Oven Not Included)	700005929
D-182959 KIT	LC Jumper Upgrade Kit	700005853

Universal Polishing Kits


KIT-C-UNIV-M-100


KIT-C-UNIV-S-100

SYSTIMAX Solutions universal polishing kits make terminations of all SYSTIMAX fiber connectors easier and faster to install. This procedure allows contractors, distributors and end-users to only order one polishing kit for multimode connectors and one polishing kit for single-mode connectors. Universal polishing kits are utilized for SC, ST and pre-radius LC connectors. D-182977 polishing kit should be utilized for flat end-face LC connectors.

Features and Benefits:

- Multimode connectors only one polishing paper and 2 steps
- Single-mode connectors only two polishing papers and 3 steps
- Fewer polishing steps and strokes for the pre-radiused LC connector
- Reduces the number of papers to purchase and maintain
- Reduces confusion over which paper to use at which step
- Easier logistics for ordering and maintaining stock
- One multimode consumables kit for all three connector styles, (ST, SC, LC)
- One single-mode consumables kit for all three connector styles (ST, SC, LC)
- Quality terminations with excellent performance

Product Number	Detailed Description	Application	Qty/Pkg	Material ID
KIT-C-UNIV-M-100	Type H paper, sheets	MM ST & SC Connectors	25	760066720
	Texwipes, packs	MM Pre-Radius LC Connectors	2	
	Syringes, packs	For terminating 100 Connectors	1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	
KIT-C-UNIV-S-100	Type H paper, sheets	SM & MM ST & SC Connectors	25	760066738
	Type E paper, sheets	SM & MM Pre-Radius LC Connectors	25	
	Texwipes, packs	For terminating 100 Connectors	2	
	Syringes, packs		1	
	Dispensing Tips, packs		1	
	Music Wire, vial		1	
	Instruction Sheets	ST, SC & LC	1 each	
EZ Adhesives	Locite 7090 Solvent-less Primer/495 Super Bonder/ 648 Retaining Compound	Primer/Bonder/Retaining Compounds		760000810
KIT-C-2.50M-R-100	Consumable Kit for repairing ST & SC Connectors			700218076

Flat Endface LC Connector Consumable Kit


D-182977 Consumable Kit

The D-182977 Consumable Kit contains enough supplies to mount approximately 200 single-mode flat end-face LC connectors using the heat-cured epoxy method. This kit can also be used to terminate multimode flat end-face LC connectors (epoxy method).

Product Number	Detailed Description	Material ID
D-182977	SM/MM Epoxy LC Consumable Kit	700005317

Detailed Description	Kit Quantity	Replacement Quantity	Material ID
Wipes	10	250	700006166
Music Wire	5	4	700008394
Syringes	75	10	700007982
Dispensing Tips	125	125	700011141
Epoxy	1	15	700006109
Clear Spacers	10		Unable to order individually
Foam Pad (white)	10		Unable to order individually
Type J Polishing Paper (purple)	20	20	700006661
Type F Polishing Paper	5	5	700006703
Type K Polishing Paper	5	5	700006687
Type L Polishing Paper	10	10	700006679
LC Adapter Brush	6	6	700008089

Fiber Optic Inspection and Cleaning Kit



KIT – Clean/Inspect

Cleanliness of fiber optic connections is critical to the performance of optical communication networks. The SYSTIMAX Fiber Optic Connector Cleaning and Inspection Kit is a complete inspection and cleaning solution that enables you to service SC, ST, LC and even MPO connectors.

Contamination as small as 0.001 mm can block the fiber core generating strong back reflections (Return Loss) and may affect attenuation (Insertion Loss). Mating a contaminated connector to a clean connector will result in poor performance and can permanently damage the connection. Contaminants on a connector end-face can come from many different sources, such as hand oils and salts from touching the end-face or airborne particles touching an exposed connector. Often dust caps do not provide protection from airborne dust contaminants.

Attempting to clean the connector with improper materials or procedures often leads to more debris and damage to the connector. Using the materials and procedures provided in this kit will ensure clean and safe optical connectivity.

Features and Benefits:

- Probe style microscope can inspect connectors in hand and through the bulkhead
- Includes all materials needed to clean and inspect ST, SC, LC connectors
- Capable of inspecting and cleaning MPOs with and without pins, either in hand or through the bulkhead
- Prevents debris and contamination from causing testing failures or permanently damaging your connectors
- Rugged aluminum carrying case included

Kit Contents - Consumable and Inspection Kits

- Westover probe microscope and display
- NTT-AT cleaning cassette for cleaning ST, SC, LC and MPO(f) connectors in hand
- Noyes 1.25 mm and 2.5 mm swabs for cleaning ST, SC, LC connectors through the bulkheads
- US Conec IBC cleaner for cleaning MPO(m) and MPO(f) connectors both in hand and through the bulkhead
- MicroCare Fiber Optic Cleaning Solution
- SYSTIMAX Cleaning Instructions

Kit Contents - Consumable Kit

- NTT-AT Optipop reel cleaner refill
- MPO/MTP internal bulkhead cleaner
- 1.25 mm swabs (Green label)
- 2.5 mm swabs (Blue label)
- Fiber optic cleaning solution

Product Number	Detailed Description	Material ID
KIT-Clean/Inspect	Fiber Optic Connector Clean/Inspect Kit	760053199
KIT-Cleaning	Fiber Optic Connector Cleaning and Consumables Kit	760053207

Fiber Tools

Miscellaneous Kits for Fiber Optic Connector Cable Assembly/Terminations

Detailed Description	Material ID
LC SM Tuning Tool	700008113
TOOL-102A, STII Crimp Tool	700008253
TOOL-500B INSRTN MET BX0	700008188
TOOL-F-62161 Curing	700008246

Consumable Kit Components

Replacement kit components for the Consumable Kits

Detailed Description	Replacement Quantity	Material ID
Type A Polishing Paper	100	700006737
Type D Polishing Paper	100	700006711
Type E Polishing Paper	100	760062281
Type E Polishing Paper (White), 6x6	100	760066977
Buffer Tube Reel 900 micron 210 ft (64.1 m)	5	700008360
Wire Marker Book	1	700007966
Rosin Bag	5	700002405
Wipes	250	700006166
Music Wire	4	700008394
Syringes	10	700007982
Dispensing Tips	125	700011141
Type F Polishing Paper (Yellow Round)	10	700006703
Type J Polishing Paper (Purple)	20	700006661
Type G Polishing Paper (Green)	25	760006205
Type L Polishing Paper	10	700006679
Type K Polishing Paper	5	700006687
Type H Polishing Paper (Green), 6x6	100	760066969
B Sealant 3 oz		700010911
Bottled Adhesive	1	700002181
D-182985 SM EZ Consumable Kit	1	700005309
D-182984 MM EZ Consumable Kit	1	108340829
Epoxy Kit		700006109
Bottled 'EZ' Primer	1	700004146

Product Number	Detailed Description	Material ID
KIT-D182037	Consumable Kit for polishing SM Flat Alumina ST Ferrules	700006091
KIT-D182038	Consumable Kit for polishing MM Flat Alumina ST Ferrules	105501415
KIT-D-182709 Parts ST CO	Consumable Kit with Adhesive	106736937
KIT-D182847 Parts	250-pc. SC Consumable Kit	700005903
KIT-D183017 FBR Optic LC	Fiber Optic Tuning Kit	700005820
KIT-ST Extender Cap Part	Extender for terminating ST Connector onto 900 um Fiber	700005978

Breakout Kits



6 Fiber Breakout Kit

The Breakout Kit prepares loose tube fiber optic cable quickly and reliably when premises network installations require indoor field connectorization. Available in 6 fiber and 12 fiber units, the kit transitions optical fiber from 2.5 mm and 3.0 mm buffer tubes to 900 micron protective tubing. The Breakout Kit is simple to use since no epoxy or special tools are required.

Features and Benefits:

- 6 fiber and 12 fiber units available
- 24 inch, 900 micron tubing length
- Simple, snap-together housing
- Flexible, yet rugged, 900 micron tubing for easy routing and fiber protection
- Color-coded tubing for easy fiber identification
- Allows fast, reliable breakout of loose tube cable
- Simple to assemble, no epoxy or special tools needed
- Easy fiber identification
- ISO 9001 and ISO 14001 certified manufacturer; TL 9000 registered quality management system

Detailed Description	Material ID
6 Fiber Breakout Kit	760018820
12 Fiber Breakout Kit	760018838

Unit Splitters



D-181683

The Unit Splitter is a pitchfork-shaped apparatus used for gel-blocking and organizing fibers when prepping outside plant cable. It is the ideal device to split bundled fibers into separate groups for routing to locations for shelves and cabinets.

Product Number	Detailed Description	Material ID
D-181781	6 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700011125
D-181683	8 to 1 Unit Splitter for Outdoor Cable Diameter of 0.41 inch	700006125
D-182806	6 to 1 Unit Splitter Fits 0.16 in (4.1 mm) and 0.20 in (5.1 mm) Core Tubes	700010960

D-181755 PVC Buffer Tubing Consumable Kit

The PVC Buffer Tubing Kit contains buffer tubing and cable end prep materials for direct termination of connectors on outside plant cable. This kit will buffer approximately 100 outside plant fibers. Order B sealant separately.



D-181755

Detailed Description	Kit Quantity	Replacement Quantity	Material ID
210 in (64 mm) Buffer Tube (900 micron)	1 Reel	5 Reels	700008360
Syringes	5	10	700007982
Wire Marker Book	1	1	700007966
Rosin Bag	1	5	700002405
0.166 in (4.2 mm) ID Clear PVC Tubing	24 in (61 cm)		Unable to order individually
0.234 in (6 mm) ID Clear PVC Tubing	12 in (30.5 cm)		Unable to order individually
0.294 in (7.5 mm) ID Clear PVC Tubing	12 in (30.5 cm)		Unable to order individually
0.095 in (2.4 mm) ID x 0.016 in (0.4 mm) Wall White PVC Tubing	25 ft (7.6 m)		Unable to order individually
0.187 in (4.8 mm) ID Heat Shrinkable Tubing	24 in (61 cm)		Unable to order individually
D-181683 Eight Unit Splitter (Re-orderable in Unit Splitter Family)	1		700006125
D-181781 Six Unit Splitter (Re-orderable in Unit Splitter Family)	1		700011125
Instruction Sheet	1		Unable to order individually

Product Number	Detailed Description	Material ID
D-181755	PVC Buffer Tubing Kit	700006117

D-183016 Splitter Kit


D-183016

The Splitter Kit contains components and consumables for blocking the gel in central core tubing common in outside plant cable. It also contains components for buffering bare fibers with 900 micron tubing for termination onto fiber optic connectors. Order B sealant separately.

The D-183016 Splitter Kit contains the following components:

- Clear Tygon Tubing Qty 2
- Cable Ties Qty 10
- Syringes (3 cc) Qty 2
- Syringe Tips Qty 2
- White PVC Tubing (0.095 Diameter) 25 ft
- Splitter Kit with TALC Bag Qty 2
- D183016 Kit Installation Instructions Qty 1

Product Number	Detailed Description	Material ID
D-183016	Splitter Kit	108459488

INTELLIGENT INFRASTRUCTURE SOLUTIONS

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Intelligent Infrastructure Solutions


Intelligent Infrastructure Solutions

Overview

Knowing how your physical infrastructure is connected is the key to controlling your network, reducing operating costs, improving efficiency and increasing reliability. Leveraging best-in-class SYSTIMAX® copper and fiber connectivity, the SYSTIMAX® iPatch® intelligent infrastructure operations solution is more than just hardware—it's a comprehensive, fully-supported solution that gives you the power you need to control your critical network infrastructure. Combining SYSTIMAX iPatch intelligent copper patch panels and fiber optic shelves with infrastructure operations software and control systems, SYSTIMAX brings you the real-time information you need about how your network is connected.

iPatch panels and shelves have integral sensors to determine connectivity changes—with no proprietary patch cord technology required. Control systems, such as the iPatch Panel Manager, collect information from all of the iPatch panels and shelves in a data center or equipment closet, and relay connectivity changes to the infrastructure operations software and iPatch System Manager.

The SYSTIMAX infrastructure operations solution provides the network administrator greater vision and network efficiency; the cabling administrator complete management; and the cabling technician intelligence to optimize physical layer management, improve reliability, and reduce downtime. Electronic work orders eliminate tedious paper-based administration and improve productivity. Work is guided at each iPatch panel by electronic visual and audio prompts to minimize patching errors. Users are instantly alerted to critical changes or conditions that require immediate attention and resolution.

Intelligent Infrastructure Management Brings Order to Chaos

Data and voice connections live or die in crowded telecommunications rooms where a single misplaced patch cord can wreak havoc and increase downtime. The iPatch system provides one-touch patch cord tracing, with both visual and audio prompts to guide every connection. It continuously monitors, verifies and logs port connections to keep your system running smoothly and instantly alerts you to problems.

Features:

- Provides accurate, automated documentation of changes to the physical layer
- Discovers network devices and maps them to the physical layer
- Provisions services and provides guidance for deployment in data centers or office environments
- Notifies administrators in real-time of any connectivity or equipment issues and alerts users of unauthorized access or activity
- Provides an integration interface for third party software

Benefits:

- Enhances productivity through automation and process efficiency
- Reduces costs associated with capacity and asset management
- Real-time enhanced location information for physical layer and networked assets
- Offers complete visibility and control of your physical layer infrastructure
- Simplifies the audit and tracking process to more easily address infrastructure compliance requirements

Intelligent Infrastructure Operations Software


System Manager Enterprise Edition

Intelligent Infrastructure Operations Software

SYSTIMAX Infrastructure Operations Software is your command central. The software provides all of the functionality required to document your structured cabling and patching systems for copper and fiber optic connections.

Key capabilities include the correlation of data from the physical layer infrastructure with that of your network and computing infrastructure – network switches, servers and other Internet Protocol (IP)-enabled endpoints. Discovering this network equipment and mapping it onto the physical layer gives you a full, end-to-end view of your data center, campus or workplace network, letting you know not only what is on your network, but where it is physically located.

In addition, the software can be used to provide a wide variety of reports on information collected from the network, guide patching through electronic work orders, determine available capacity and provisions services onto those available resources, and send events to other systems. Access through an XML API can be licensed for specific applications, such as an enhanced location service for emergency response in VoIP networks or for OLE for Process Control (OPC) clients. Packaged to meet your needs, iPatch System Manager Enterprise provides licenses for 2,000, 10,000 and Unlimited port installations.

Both Microsoft® Windows® and web-based clients are supported for user access to the system.

Warranty Information:

- Included with the initial purchase of SYSTIMAX Infrastructure Operations Software is a one year subscription to our annually renewable Software Assurance Program. More information can be found in the iPatch Services section of the catalog. In addition, the software is covered by an initial 90-day limited warranty against defects in materials and workmanship.

iPatch System Manager

Product Number	Detailed Description	Material ID
iP-SYS-MGR-ENT-2K	iPatch System Manager Enterprise 2000	760111187
iP-SYS-MGR-ENT-10K	iPatch System Manager Enterprise 10000	760111195
iP-SYS-MGR-ENT-UNL	iPatch System Manager Enterprise Unlimited	760090068
iP-UP-SYSMGR-2K-10K	iPatch Upgrade System Manager Enterprise 2K-10K	760111203
iP-UP-SYSMGR-2K-UNL	iPatch Upgrade System Manager Enterprise 2K-Unlimited	760111211
iP-UP-SYSMGR-10K-UNL	iPatch Upgrade System Manager Enterprise 10K-Unlimited	760111229

System Integrations

Product Number	Detailed Description	Material ID
iP-SYS-MGR-ELS-INT	iPatch System Manager Enhanced Location Service for Emergency Response	760083402
iP-SYS-MGR-OPC-INT	iPatch System Manager OPC Integration	760083410

Software Assurance

Detailed Description	Material ID
Software Assurance for iPatch System Manager Enterprise 2K	760111237
Software Assurance for iPatch System Manager Enterprise 10K	760111245
Software Assurance for iPatch System Manager Enterprise Unlimited	760090266

iPatch® Intelligent Infrastructure Control Systems

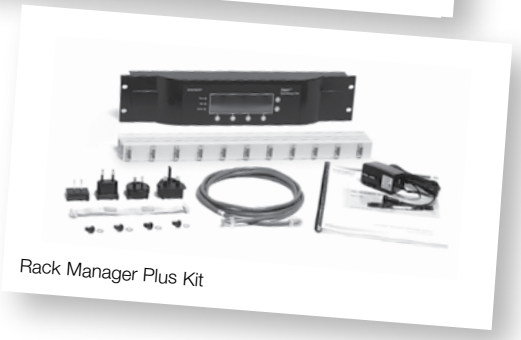

SYSTIMAX 360 iPatch Network Manager

Control systems link your iPatch intelligent panels with the System Manager software. Each rack of iPatch intelligent panels is equipped with a control system—an iPatch Panel Manager or Rack Manager Plus — which monitors the status of every port. The control system sends connectivity updates to System Manager to ensure that you always have a real-time updated database of connectivity information.


SYSTIMAX 360 iPatch Panel Manager

SYSTIMAX control systems also provide technicians with a local user interface. To aid in tracing existing connections, the display provides end-to-end connectivity information, including the location of patch cords as well as the devices connected on either end of the circuit.

This wealth of information far surpasses the level of insight provided by traditional port or cord labels. In addition, control systems provide the added benefit of automatic updates when changes occur in the patching field or at the endpoints of a circuit.


Rack Manager Plus Kit

The iPatch Control System enhances guided patching operations by displaying work orders generated by your System Manager software. A local display makes steps in the work order simple, displaying the ports to be connected or disconnected, as well as providing visual and audible feedback on the progress of that step. LEDs on iPatch panels aid the process, too, lighting up to signal each patching change.

For unguided operations, the iPatch Control System can be used to confirm changes made on iPatch panels. All connectivity changes in iPatch panels are automatically detected by the control system and forwarded on to iPatch System Manager, where alerts for unauthorized changes can be forwarded to systems administrators.

SYSTIMAX 360 iPatch Panel Manager Features and Benefits:

- Innovative, cost effective, space-saving technology and design simplifies deployment, requiring no more than 1RU of space
- Supports up to 45 panels, depending on specific panel configuration
- Localized display language support includes Danish, English, French, German, Italian, Russian, Chinese, Korean, Polish, Portuguese and Spanish
- Panel Manager package contents contains: universal power supply, 16-inch panel bus jumper, 7 ft. patch cord, forty four position bus panel
- Features the elegant SYSTIMAX 360 design

SYSTIMAX 360 iPatch Network Manager Features and Benefits:

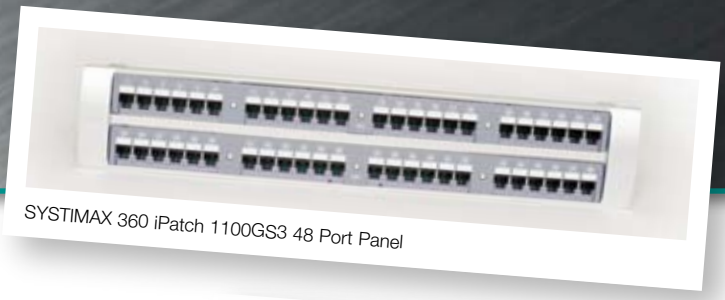
- Innovative, cost effective, space-saving technology and design simplifies deployment which easily mounts on the 1U bracket provided with Panel Manager
- Utilizes the display of the Panel Manager for configuration, including IP settings
- Supports PING response for use when troubleshooting IP connectivity
- Network Manager package contents contains: 6-inch patch cord, power jumper cable

Warranty Information:

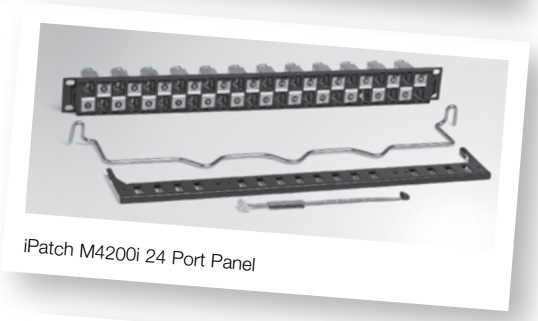
- The intelligent infrastructure control systems are active components covered by the SYSTIMAX iPatch System Active Components 3-Year Product Warranty.

Product Number	Detailed Description	Material ID
360-iP-PANEL-MGR	SYSTIMAX 360 iPatch Panel Manager	760095562
360-iP-NET-MGR-MOD	SYSTIMAX 360 iPatch Network Manager Module	760105353
iP-RACK-MGR-PLUS	SYSTIMAX 360 iPatch Rack Manager Plus	760024588

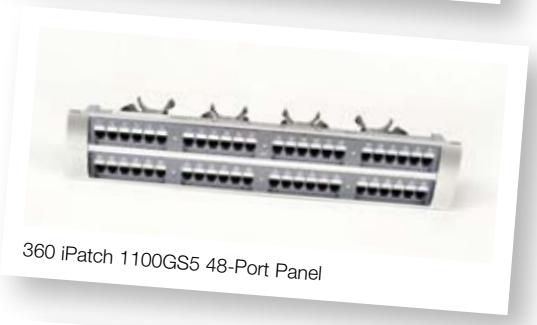
iPatch® Intelligent Copper Panels


SYSTIMAX 360 iPatch 1100GS3 48 Port Panel

Building on the industry-leading performance of SYSTIMAX 1100-series GigaSPEED® XL and GigaSPEED X10D panels, iPatch 1100GS3 and 1100GS5 copper patch panels provide intelligence for managing your network infrastructure. Both 1100GS3 and 1100GS5 iPatch panels are available in either 24-port 1U or 48-port 2U models.

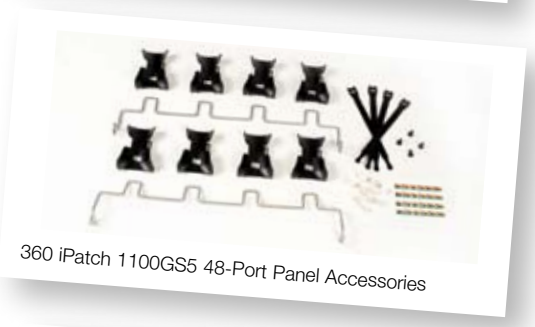

iPatch M4200i 24 Port Panel

The SYSTIMAX 360 "iPatch-ready" copper panels can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360 solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.


360 iPatch 1100GS5 48-Port Panel

The iPatch M4200i intelligent universal modular panels feature the ability to support individual M-series copper information outlets for either unshielded twisted pair (UTP) or foil twisted pair (FTP) applications in a 24-port 1U panel.

iPatch intelligent copper patch panels provide unequaled Vision into changes in your physical layer infrastructure. This Vision is combined with Knowledge provided by iPatch System Manager software to deliver the Control you need to manage your network.


360 iPatch 1100GS5 48-Port Panel Accessories

Features and Benefits:

- All panels feature a one-button tracing function with an LED indicator per port
- Each port detects the insertion or removal of standard patch cords and reports changes to the iPatch Control System
- iPatch 1100 series panels are available in 24- and 48-port configurations
- iPatch M4200i panels support both UTP and FTP applications up to GigaSPEED X10D performance


360 iPatch 1100GS5 24-Port Panel

Warranty Information:

The passive components in the panel qualify for the same SYSTIMAX Structured Connectivity Solutions 20-year Extended Product Warranty and Applications Assurance as standard SYSTIMAX copper panels when included in a certified SYSTIMAX PowerSUM, GigaSPEED XL or GigaSPEED X10D channel. The active components, including


360 iPatch 1100GS5 24-Port Panel (Back)

SYSTIMAX 360 iPatch 1100GS3 Features and Benefits:

- Supports network line speeds in excess of 1 Gbps
- Backwards-compatible with Category 5e, 5, and 3 cords and cables; however, optimal performance is achieved when used with GigaSPEED GS8E cords
- Certified component of an integrated GigaSPEED XL solution
- SYSTIMAX 360 iPatch 1100GS3 panels feature the elegant SYSTIMAX 360 design

SYSTIMAX 360 iPatch 1100GS5 Features and Benefits:

- Supports network line speeds in excess of 10 Gbps
- Backwards-compatible with Category 6, 5e, 5, and 3 cords and cables; however, optimal performance is achieved when used with GigaSPEED GS10E cords
- Certified component of an integrated GigaSPEED X10D solution
- SYSTIMAX 360 iPatch 1100GS5 panels feature the elegant SYSTIMAX 360 design

iPatch M4200i Features and Benefits:

- Supports M-Series copper information outlets, including Cat 3, PowerSUM, GigaSPEED XL and GigaSPEED X10D
- Supports unshielded twisted pair (UTP) and foil twisted pair (FTP) deployments
- Certified component of PowerSUM, GigaSPEED XL or GigaSPEED X10D channels based on the type of information outlet and patch cord installed
- Available either as bare panel for UTP or packaged with 24 M-series GigaSPEED X10D FTP information outlets (MFP520)
- May be available in other pre-packaged combinations – contact your local BusinessPartner or visit our Web site at www.commscope.com/systimax for a complete list of product offerings
- Includes a jack insertion/removal tool

Product Number	Detailed Description	Material ID
360-iP-1100-GS3-24	360 iPatch 1100GS3 24-Port Panel	760104984
360-iP-1100-GS3-48	360 iPatch 1100GS3 48-Port Panel	760105007
360-iP-1100-GS5-24	360 iPatch 1100GS5 24-Port Panel	760107771
360-iP-1100-GS5-48	360 iPatch 1100GS5 48-Port Panel	760107789
360-iP-UP-KIT-1100-24	360 iPatch Upgrade Kit for 360 1100 24 Port Panel	760104992
360-iP-UP-KIT-1100-48	360 iPatch Upgrade Kit for the 360 1100 48 Port Panel	760105015
iP-1100GS3-24 iPatch	1100GS3 24-Port GigaSPEED XL Intelligent Patch Panel	760067694
iP-1100GS3-48 iPatch	1100GS3 48-Port GigaSPEED XL Intelligent Patch Panel	760067702
iP-1100GS5-24 iPatch	1100GS5 24-Port GigaSPEED X10D Intelligent Patch Panel	760051003
iP-1100GS5-48 iPatch	1100GS5 48-Port GigaSPEED X10D Intelligent Patch Panel	760051011
iP-M4200i-24	iPatch M4200i 24-Port UTP, Blank without Modules (For use in UTP Installations)	760073866
iP-M4200i-24-FTP	iPatch M4200i 24-port FTP, Blank without Modules (For use in FTP Installations)	760116665
iP-M4200i-24MFP520	iPatch M4200i 24-Port Intelligent Universal Modular Panel with MFP520 FTP Information Outlets	760083295

For the latest information on available SYSTIMAX 360 iPatch intelligent copper panels, please visit www.commscope.com or contact your CommScope sales representative.

iPatch® Intelligent Fiber Optic Shelves



SYSTIMAX 360 iPatch G2 Fiber Shelf



SYSTIMAX 360 iPatch G2 High Density Fiber Shelf

iPatch Intelligent Fiber Shelves provide solutions for both SC and LC installations that support the SYSTIMAX fiber portfolio—LazrSPEED®, TeraSPEED® and OptiSPEED® applications. iPatch Intelligent Fiber Optic Shelves support both simplex and duplex patch connections. Models are available with fixed or sliding fiber trays, and MPO versions are also available.

The SYSTIMAX 360 1 U optical fiber shelves are "iPatch-Ready" and can be upgraded in the field at a later stage with the 360 iPatch Upgrade Kit. The upgrade can be performed without network disruptions, since it does not require the removal of patch cords. The SYSTIMAX 360 solution offers customers the option to deploy intelligence immediately or in phases, according to their needs and budgetary requirements. By providing a clear strategy that includes an upgradeable product line, CommScope intends to bring intelligence to the masses and raise awareness of the business benefits of intelligent infrastructures.

iPatch intelligent fiber optic shelves provide unequaled Vision into changes in your physical layer infrastructure. This Vision is combined with Knowledge provided by iPatch System Manager software to deliver the Control you need to manage your network.

Features and Benefits, SYSTIMAX 360 iPatch Fiber Shelves

- Bend limiters maximize space by integrating into the shelf trough
- Push/push-style latch on the front trough door improves access to shelf interior
- Unique open-floor trough design enhances access for patch cord latching and de-latching
- Displays intuitively-placed port labeling when door is open
- Features the elegant SYSTIMAX 360 design
- Offered in fixed and sliding options
- Available in 1RU and 2RU sizes (SYSTIMAX 360 iPatch G2 Fiber Shelves available in 1U only)

Features and Benefits, iPatch Pre-Terminated/MPO Shelves

- 12-fiber MPO connector-based modular design for simple connections
- Factory-terminated and tested modules for instant field connections and guaranteed quality and performance
- Designed for the administrative convenience of guaranteed transmit-to-receive connectivity
- No special or non-standard polarity components
- Supports easy reconfiguration for moves, adds and changes
- Easy upgrade path to parallel connectivity and associated applications

Features and Benefits, iPatch Intelligent Fiber Optic Shelves

- Hinged front door for easy access
- Front cable management trough
- Top cover panel
- Standard water-tight cable entry conduit connectors
- Blank labels for identifying fiber splices and terminations

Warranty Information:

The passive components in iPatch standard and pre-terminated fiber shelves qualify for the same SYSTIMAX 20-year Extended Product Warranty and Applications Assurance as standard 600-series or InstaPATCH fiber shelves when included in a certified SYSTIMAX LazrSPEED, TeraSPEED or OptiSPEED channel. The active components, including the fiber shelves' tracing and sensing modules, are covered by the SYSTIMAX iPatch System Active Components 3-year Product Warranty.

iPatch Intelligent Fiber Optic Shelves

Product Number	Ports	Connector	Cable Type	Sleeve Type	Shelf Type	Material ID
360-iP-G2-1U-LC-FX	24	Duplex LC	Multimode/Single-mode	Ceramic	Fixed	760105163
360-iP-G2-1U-LC-SD	24	Duplex LC	Multimode/Single-mode	Ceramic	Sliding	760105171
360-iP-UP-KIT-G2-LC	24	Duplex LC	Multimode/Single-mode	N/A	Fixed/Sliding	760105148
iP-600A-12-SC-MMF	12	Duplex SC	Multimode	Ceramic	Fixed	760005595
iP-600B-12-SC-MMF	12	Duplex SC	Multimode	Ceramic	Sliding	760005629
iP-600A-12-SC-SMF	12	Duplex SC	Single-mode	Ceramic	Fixed	760010777
iP-600B-12-SC-SMF	12	Duplex SC	Single-mode	Ceramic	Sliding	760010785
iP-600A-24-LC	24	Duplex LC	Multimode/Single-mode	Ceramic	Fixed	760017848
iP-600B-24-LC	24	Duplex LC	Multimode/Single-mode	Ceramic	Sliding	760017855

SYSTIMAX 360 iPatch G2 High Density Fiber Shelves

Product Number	Ports	Connector	Cable Type	Sleeve Type	Shelf Type	Material ID
360-iP-HD-2U-IP-SD	up to 72	Duplex LC	All Types	Ceramic	Sliding	760093336
360-iP-HD-MOD-LC-LS	24	Duplex LC	LazrSPEED	Ceramic	Sliding	760093344
360-iP-HD-MOD-LC-LS-3	72	Duplex LC	LazrSPEED	Ceramic	Sliding	760093351
360-iP-HD-MOD-LC-TS	24	Duplex LC	TeraSPEED	Ceramic	Sliding	760093369
360-iP-HD-MOD-LC-TS-3	72	Duplex LC	TeraSPEED	Ceramic	Sliding	760093377
360-iP-HD-MOD-LC-OS	24	Duplex LC	OptiSPEED	Ceramic	Sliding	760093385
360-iP-HD-MOD-LC-OS-3	72	Duplex LC	OptiSPEED	Ceramic	Sliding	760093393

iPatch® Services

Services Overview

iPatch Services allows customers to leverage SYSTIMAX Solutions' technology expertise and support to get more value out of their purchase, minimize impact to internal resources, and protect their investment.

- With our Configuration Service, your system installation will be certified and your database accurately provisioned
- With our Software Assurance Program, your infrastructure operations software will never be out of date
- With our Hardware Extended Warranty Program, you can rest assured if something breaks under warranty, it will be replaced

Configuration Service

Get More from Your Intelligent Infrastructure Investment

Let SYSTIMAX Solutions help you get your intelligent infrastructure management system up and running quickly and successfully to generate more value from your solution. With SYSTIMAX Solutions handling the initialization, you can start using your iPatch System right away rather than spending time setting it up. With the SYSTIMAX iPatch Configuration Service, you will benefit from the following:

- Experts that can quickly configure the iPatch hardware and software, saving you time and money and ensuring you are up and running with your mission-critical operations
- A knowledgeable team that can correctly set up your database and initialize the solution, eliminating frustrations and ensuring that you have a working system
- On the spot training and quick start instructions from a seasoned intelligent patching technician who can give you tips on how to get the most from your system

The Configuration Service includes all configuration, initialization, troubleshooting, and testing so you are guaranteed a fully validated and tested solution prior to production. With the service, you get the following:

- Certified Technician provided by SYSTIMAX Solutions
- Offsite support, including:
  - Kick-off meeting to gather detailed requirements and plan the project, including timelines and deliverables
  - Processing and consolidation of "As Built" and other drawings
  - Initial building of your customer database
  - Project management and project schedule
- Onsite support, including:
  - Hardware inspection and configuration of active components
  - iPatch System Manager Software installation
  - Completed building of the customer database
  - Testing and review
  - Troubleshooting if needed
  - iPatch Product Registration including hardware and software registration
  - Walk through orientation that includes tips and tricks for using the iPatch System
  - Welcome Package with reference materials for your new system
- Quality guarantee going into production

Software Assurance

More than Just Hardware

Infrastructure operations software, such as the iPatch System Manager, is at the core of our intelligent infrastructure solution. It is the bridge that connects you to the physical layer technology and provides you the ability to better monitor and control your physical infrastructure in ways you never imagined.


iP-SYS-MGR-SW

With the Software Assurance program, you can rest assured that your investment in the iPatch Solution from SYSTIMAX is up to date and available to support your business.


System Manager Enterprise Edition

Protecting Your Investment

Our Software Assurance Program ensures you will get peak performance from your iPatch System Manager software by providing a full range of online services including version updates and upgrades.

Not only will you be eligible to receive our regular Service Packs, you will also receive any new versions of the product that are released during the term of your agreement. Your business can take advantage of new features and functionality as they become available. It's all a part of our easy-on-the-budget Software Assurance Program.

Included Features

- Online software assurance services
- Access to iPatch web support via InSite
- Access to FAQs and Knowledge Base
- Maintenance releases and service packs
- Version upgrades
- Access to user documentation and release notes
- Access to user forums
- Ability to submit software issues and questions

Your Software Assurance subscription comes with:

Product Upgrades and Service Packs

- Notification by letter when upgrades are available
- Convenient delivery options—download or CD
- Notification by e-mail when service packs and upgrades are available for download

Online Software Support

- Ask questions regarding software features and functionality
- Submit software support trouble tickets

E-Newsletters, User Documentation and Release Notes

- Distributed every quarter and with every release
- Up-to-date information on the latest product features and enhancements
- FAQs and tips to get the most out of your software

Knowledgebase

- A mini-training and troubleshooting Web-based system that provides answers to your technical questions
- Available for use 24 hours a day, 7 days a week

Online Account Information

- View product information
- Participate in user forums

Is Software Assurance Right for Your Business?

Software Assurance is a maintenance plan for businesses that want to keep their systems reliably running on the latest software without paying full price for upgrades. Every time we release a new version of your software, we automatically send it to you. All you have to do is keep your Software Assurance subscription current.

If you are a current SYSTIMAX iPatch customer and would like to purchase or get more information about Software Assurance, contact your local SYSTIMAX sales representative.

iPatch Hardware Warranty

SYSTIMAX understands that network management is critical to your business operations. For this reason, our Standard iPatch Hardware Warranty is three years and covers both parts and labor, provided your installation has been installed and certified by a SYSTIMAX Solutions iPatch Certified BusinessPartner.

Included Features

With our iPatch Hardware Warranty Program, you can rest assured that your hardware will be replaced quickly in the event of a failure. With the SYSTIMAX iPatch Hardware Warranty you get the following:

- We cover the parts and, in most instances, the labor costs associated with the hardware replacement
- Access to SYSTIMAX iPatch Web Support via InSite for online hardware registration

Complement Your SYSTIMAX 20-Year Warranty

With SYSTIMAX, you have always been able to enjoy the peace of mind associated with a 20-year warranty on passive components. Now you can get that same peace of mind with a warranty that extends the guarantee on your iPatch System active hardware components from the industry standard of one year to three years.

SYSTIMAX InSite

Web-Based Technical Support Services

SYSTIMAX InSite, an intelligent web-based service center, sets a new standard for self service and remote technical support for our iPatch System. InSite provides real-time, personalized access to in-depth product information anytime you have a question. In addition, with InSite, you have the ability to download software updates and upgrades, review tracking of your maintenance assistance requests, ask SYSTIMAX support staff questions, and get fast, accurate answers to commonly asked questions and troubleshooting recommendations.

SYSTIMAX InSite offers a unique approach to SYSTIMAX service and support with anytime, anywhere access to SYSTIMAX expertise and extensive self-help capabilities.

SYSTIMAX InSite Features and Functionality

Backed by CommScope Labs, the SYSTIMAX InSite service center features the following capabilities:

InSite Self-Help

Real-time access to continuously updated technical documentation, notifications, user guides, software updates and Knowledge Byte answers to frequently asked questions:

- How-to instructions
- Trouble shooting guidelines
- Frequently asked questions

InSite Technician Assisted Service

Use email to ask a question, describe a problem, or request information and receive an email response. My InSite lets you view and track online the status of your assistance requests.

Benefits

The SYSTIMAX InSite enhances productivity by streamlining solution maintenance and configuration with convenient an time, anywhere access to support services. You will receive fast responses and quick resolution of issues affecting your physical layer infrastructure. Self-service lets you access up-to-the-minute maintenance solutions, helping you maximize efficiencies. The SYSTIMAX InSite self-help capabilities, technician-assisted expertise, and powerful Knowledgebase of answers set InSite as the standard for technical support service.

Visit SYSTIMAX InSite online at http://systimaxinsite.custhelp.com.

iPatch® BusinessPartner Program

BusinessPartner Program Levels

Our BusinessPartners are selected based on criteria such as their technical ability, market experience, quality, customer service, commercial stability and target markets, so that CommScope customers receive the highest standards of operational support and technical expertise in the market.

Designed to provide the resources to help you deliver industry-leading products and services and high levels of customer satisfaction, there are two partner levels designed to meet the needs of your company.

Certified iPatch Solution BusinessPartner

- The Certified iPatch Solution BusinessPartners provide setup, configuration and support services including the design, installation and configuration of complete iPatch projects. In addition, Certified iPatch Solution BusinessPartners offer both hardware and software extended warranties, customer onsite iPatch system support services and iPatch based managed services (for example Moves, Adds, Changes).

Certified iPatch System Integrator

- The Certified iPatch System Integrators have demonstrated software configuration, development and integration expertise. System Integrators provide iPatch software setup, configuration and support services, as well as post-deployment integration services that focus on integrating iPatch into the IT workflow processes. When required, Certified iPatch System Integrations team up with an Authorised / Certified BusinessPartner, or Certified iPatch Solution BusinessPartner to install a fully functional Intelligent Infrastructure Solution, which includes a CommScope Structured Cabling Solution comprising of cabling and apparatus.

To find an iPatch BusinessPartner near you, contact your local CommScope sales representative or visit www.commscope.com.

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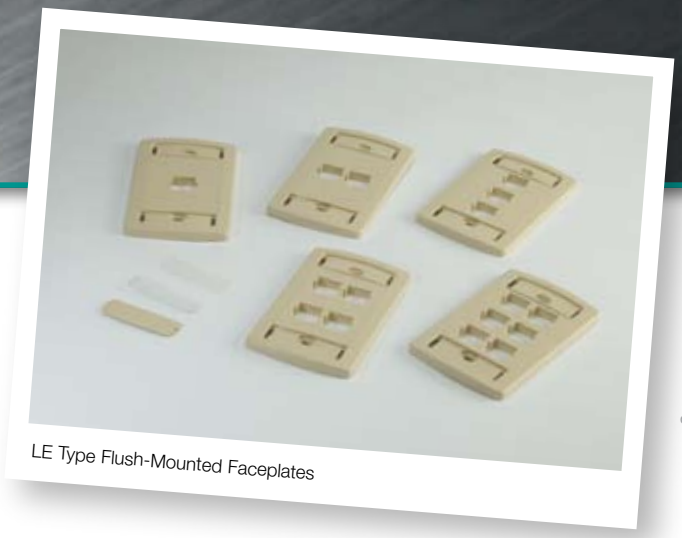
LE Type Flush-Mounted Faceplates


LE Type Flush-Mounted Faceplates

LE Type Faceplates are flush-mounted US standard plastic faceplates. They offer contoured edges for a contemporary appearance and are available in one, two, three, four and six port configurations. These plates will accept all CommScope UTP/FTP modular information outlets for voice and data, as well as most fiber optic adapters and couplers.

The LE style plates are also compatible with CommScope's multimedia adapters and couplers. Mounting screws, label covers and label cards are included. Available in six colors.

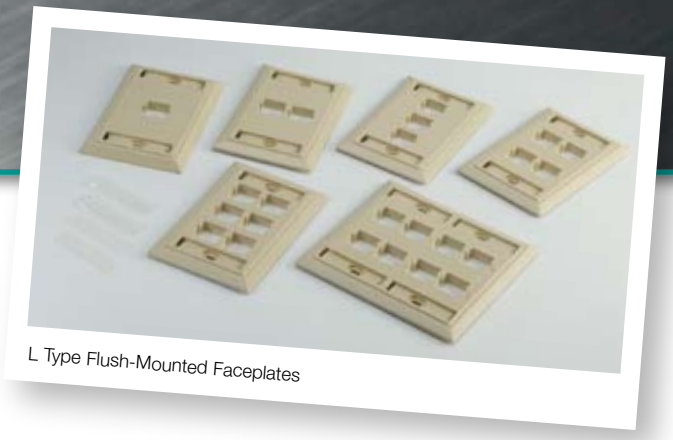
Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

LE Type Flush Mounted Faceplates

Product Number	Detailed Description	H x W x D	Color	Material ID
M10LE-003	1-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Black	108332982
M10LE-148	1- Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Almond	760106179
M10LE-215	1-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Cream	108332990
M10LE-246	1-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Ivory	108333006
M10LE-262	1-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	White	108333014
M10LE-270	1-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Gray	108333022
M12LE-003	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Black	108333030
M12LE-148	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Almond	760080812
M12LE-215	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Cream	108333048
M12LE-246	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Ivory	108333055
M12LE-262	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	White	108333063
M12LE-270	2-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Gray	108333071
M13LE-003	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Black	108333089
M13LE-148	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Almond	760106195
M13LE-215	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Cream	108333097
M13LE-246	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Ivory	108333105
M13LE-262	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	White	108333113
M13LE-270	3-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Gray	108333121
M14LE-003	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Black	108333139
M14LE-148	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Almond	760106203
M14LE-215	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Cream	108333147
M14LE-246	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Ivory	108333154
M14LE-262	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	White	108333162
M14LE-270	4-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Gray	108333170
M16LE-003	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Black	108333188
M16LE-148	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Almond	760106211
M16LE-215	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Cream	108333196
M16LE-246	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Ivory	108333204
M16LE-262	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	White	108333212
M16LE-270	6-Port	2.84 x 4.81 x 0.33 in (7.2 x 12.2 x 0.84 cm)	Gray	108333220

L Type Flush-Mounted Faceplates


L Type Flush-Mounted Faceplates

L Type Faceplates are flush-mounted US standard plastic faceplates. They are available in one, two, three, four, six and eight port outlet configurations.

These plates will accept all CommScope UTP/FTP modular information outlets for voice and data, as well as most fiber optic adapters and couplers.

The L Type plates are also compatible with CommScope's multimedia adapters and couplers. Mounting screws, label covers and label cards are included. They are available in four colors.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

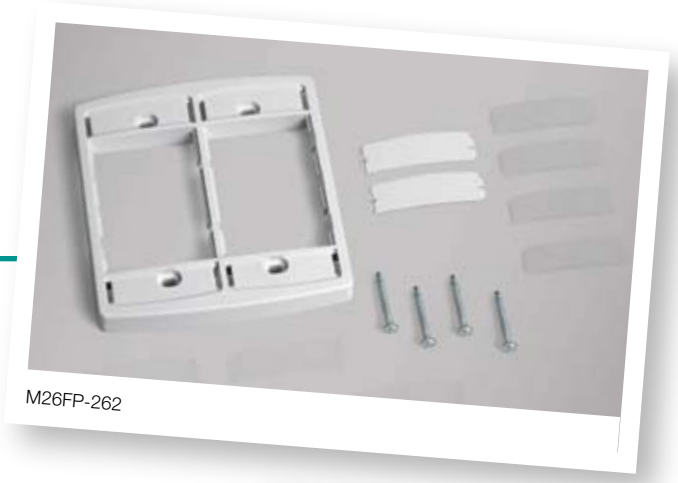
L Type Flush-Mounted Faceplates

Product Number	Detailed Description	H x W x D	Color	Material ID
M10L-003	1-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	108258401
M10L-246	1-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108258419
M10L-262	1-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108258427
M10L-270	1-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	108258435
M10LW-246	1-Port Wall Mount Telephone (3.28" lug spacing)	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108258450
M10LW-262	1-Port Wall Mount Telephone (3.28" lug spacing)	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108258468
M12L-003	2-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	108168485
M12L-246	2-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108168477
M12L-262	2-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108168469
M12L-270	2-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	108168451
M12AP-246	2-Port (Vertical Alignment)	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	107276172
M12AP-262	2-Port (Vertical Alignment)	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	107276180
M13L-003	3-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	108168527
M13L-246	3-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108168519
M13L-262	3-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108168501
M13L-270	3-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	108168493
M14L-003	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	108168568
M14L-246	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108168550
M14L-262	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108168543
M14L-270	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	108168535
M16L-003	6-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	108168600
M16L-246	6-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	108168592
M16L-262	6-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	108168584
M16L-270	6-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	108168576
M28L-003	8-Port (Double Gang)	4.81 x 4.61 x 0.29 in (11.7 x 12.2 x 0.7 cm)	Black	108685009
M28L-246	8-Port (Double Gang)	4.81 x 4.61 x 0.29 in (11.7 x 12.2 x 0.7 cm)	Ivory	108685017
M28L-262	8-Port (Double Gang)	4.81 x 4.61 x 0.29 in (11.7 x 12.2 x 0.7 cm)	White	108685025
M28L-270	8-Port (Double Gang)	4.81 x 4.61 x 0.29 in (11.7 x 12.2 x 0.7 cm)	Gray	108685033

FP Type Flush-Mounted Faceplate System

The FP Type (Flexible and Tamper resistant) Faceplate Systems provide front access to support future moves, adds and changes without removing the faceplate frame from the wall. The FP system will accommodate all CommScope UTP/STP Information outlets for voice and data, adapters for Video and audio, as well as most fiber optic adapters and couplers. CommScope offers a broad selection of multimedia adapters/couplers that are compatible with any of the FP system adapter housings and frames. In addition, the faceplate frames will accommodate specially designed CommScope S-video, VGA, RCA and DVI bezels also offered in this section. The FP system allows the user to customize each specific application according to the media types and interface required.

FP Type (Flexible) Faceplate Frames


M26FP-262

There are 2 major components that comprise the FP (Flexible) system:
(1) Select a faceplate frame: Single gang (M13) “OR” double gang (M26).
(2) Select the needed adapter housing(s): (M30FP) Adapter housings are offered in “unloaded” single port, dual port, or blanks. Specially designed adapter housings are also available that come pre-populated with S-video, VGA, DVI or a 3 port RCA.

- Flexible Faceplate Frames include: Faceplate Frame, Mounting screws, label covers and labels.
- Adapter housings, Information Outlets, Adapters and couplers, icons, and related accessories are ordered separately.
- Frames and Adapter Housings are available in four color choices.


M13FP-003

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

FP Type (Flexible) Faceplate Frames

Product Number	Detailed Description	H x W x D	Color	Material ID
M13FP-003	Flexible Faceplate - Single Gang Frame	4.81 x 2.84 x 0.64 in (12.2 x 7.2 x 1.6 cm)	Black	760010009
M13FP-246	Flexible Faceplate - Single Gang Frame	4.81 x 2.84 x 0.64 in (12.2 x 7.2 x 1.6 cm)	Ivory	760010017
M13FP-262	Flexible Faceplate - Single Gang Frame	4.81 x 2.84 x 0.64 in (12.2 x 7.2 x 1.6 cm)	White	760010025
M13FP-270	Flexible Faceplate - Single Gang Frame	4.81 x 2.84 x 0.64 in (12.2 x 7.2 x 1.6 cm)	Gray	760010033
M26FP-003	Flexible Faceplate - Double Gang Frame	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760008607
M26FP-246	Flexible Faceplate - Double Gang Frame	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760008615
M26FP-262	Flexible Faceplate - Double Gang Frame	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760008623
M26FP-270	Flexible Faceplate - Double Gang Frame	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760008631

FP Type (Tamper Resistant) Faceplate Frame Kits


M13FP-TR-246


M13FP-TR1-262

The FP Type (Tamper Resistant) Faceplate is a front access faceplate designed to provide security to the connection points being made at the work space location.

It provides a degree of protection from intentional or inadvertent removal of the connection points at the faceplate with a secured transparent cover that allows for easy visual inspection. The Tamper Resistant Faceplate Frames are constructed so that the housings and subsequent outlets or adapters are positioned at a 45 degree downward angle, providing bend radius protection and strain relief on the cables and connection points. Optional graphical and color coded icons provide a means for color-coding on the faceplate frame for easy service identification. Each kit includes all necessary hardware for mounting the frame, in addition to a std. Philips head screw and Torx head screw to secure the protective cover.

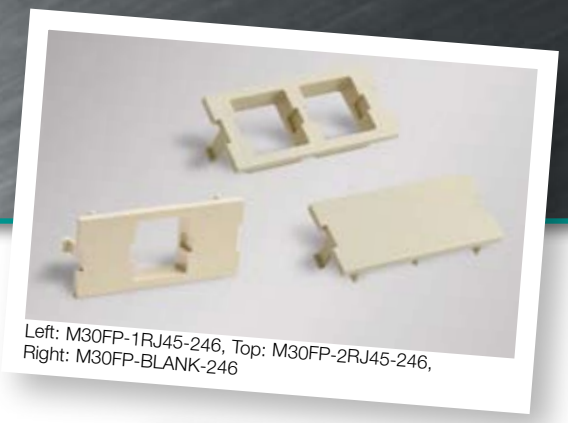
There are two major components that comprise the FP (Tamper Resistant) kit: (1) Select a faceplate frame kit: Std. profile (M13FP-TR) "OR" Low profile (M13FP-TR1) (2) Select the needed adapter housing(s): (M30FP) Adapter housings are offered in "unloaded" single port, dual port, or blanks. Specially designed adapter housings are also available that come pre-populated with S-video, VGA, DVI or a 3 port RCA.

- Tamper Resistant Frame kits include: Faceplate frame, Protective cover, All necessary mounting and security screws, label covers and label cards
- Frame Kits are available in a std. profile or low profile in two color choices
- Adapter housings, Information Outlets, Adapters and couplers, Icons, and related accessories are ordered separately.

FP Type (Tamper Resistant) Faceplate Frame Kits & Covers

Product Number	Detailed Description	Color	Material ID
M13FP-TR-262	Faceplate Kit-Tamper Res. (Std.) (Single Gang)	White	760091231
M13FP-TR-246	Faceplate Kit-Tamper Res. (Std.) (Single Gang)	Ivory	760091249
M13FP-TR1-262	Faceplate Kit-Tamper Res. (Low Prof.) (Single Gang)	White	760091280
M13FP-TR1-246	Faceplate Kit-Tamper Res. (Low Prof.) (Single Gang)	Ivory	760091298
M13FP-TRC	Faceplate Cover-Tamper Res. (Std.) (Single Gang)	Clear	760091330
M13FP-TRC1	Faceplate Cover-Tamper Res. (Low Prof.) (Single Gang)	Clear	760091348

FP Type Adapter Housings



Left: M30FP-1RJ45-246, Top: M30FP-2RJ45-246, Right: M30FP-BLANK-246

M30FP adapter housings are offered in empty 1 port, 2 port or solid blanks. Pre-populated adapter housings for audio and video are also available with S-video, VGA, and RCA adapters. M30FP (empty) adapter housing will accept all CommScope UTP/FTP modular information outlets for voice and data, as well as, most fiber optic adapters and couplers.

Note: In addition to the FP system frames, the M30FP Type adapter housings are also compatible with all 200 series Surface Mounted Boxes.

RCA and S-Video (SVHS) Adapters for the FP type frames are front access adapters that will accommodate the flush mount S-Video Adapter and the 3-Port RCA Adapter. These adapters will easily snap into the FP type faceplate. The RCA Adapter uses a 110 IDC (Insulation Displacement Contact) block to directly terminate the 4-pair building wiring. RCA outlets are used for connecting audio and video appliances to 24 AWG UTP wiring.



Left: M30FP-SVHS-110, Top: M30FP-3RCA-110, Right: M30FP-VGA-PT-003

The S-Video Adapter uses a 110 IDC block to directly terminate to 4-pair building wiring. The S-Video or Super VHS (SVHS) Modular Adapter provides baseband video connectivity to 24 AWG UTP wiring. These outlets provide point-to-point transmission of analog baseband National Television System Committee (NTSC)/Phase-Alteration Line (PAL) SECAM S-Video signals.

FP Type Adapter Housings

Product Number	Detailed Description	H x W x D	Color	Material ID
M30FP-1RJ45-246	Single Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760009431
M30FP-1RJ45-262	Single Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760009449
M30FP-1RJ45-270	Single Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760009456
M30FP-2RJ45-003	Double Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760008649
M30FP-2RJ45-246	Double Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760008656
M30FP-2RJ45-262	Double Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760008664
M30FP-2RJ45-270	Double Port Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760008672
M30FP-BLANK-003	Blank Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760009464
M30FP-BLANK-246	Blank Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760009472
M30FP-BLANK-262	Blank Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760009480
M30FP-BLANK-270	Blank Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760009498
M30FP-SVHS-110-003	Flush Mount S-VHS Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760013094
M30FP-SVHS-110-246	Flush Mount S-VHS Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760013102
M30FP-SVHS-110-262	Flush Mount S-VHS Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760013110
M30FP-SVHS-110-270	Flush Mount S-VHS Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760013128
M30FP-3RCA-110-003	3-Port RCA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760017541
M30FP-3RCA-110-246	3-Port RCA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760017558
M30FP-3RCA-110-262	3-Port RCA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760017566
M30FP-3RCA-110-270	3-Port RCA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760017574
M30FP-VGA-PT-262	M30FP VGA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	White	760028720
M30FP-VGA-PT-270	M30FP VGA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Gray	760028738
M30FP-VGA-PT-003	M30FP VGA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Black	760028704
M30FP-VGA-PT-246	M30FP VGA Adapter	4.81 x 4.61 x 0.67 in (12.2 x 11.7 x 1.7 cm)	Ivory	760028712
M30FP-DVI-DVI-262	M30FP DVI Adapter	2.01 x 0.92 x 0.69 in (5.1 x 2.3 x 1.8 cm)	White	760106294
M30FP-DVI-DVI-270	M30FP DVI Adapter	2.01 x 0.92 x 0.69 in (5.1 x 2.3 x 1.8 cm)	Gray	760106310
M30FP-DVI-DVI-003	M30FP DVI Adapter	2.01 x 0.92 x 0.69 in (5.1 x 2.3 x 1.8 cm)	Black	760106328
M30FP-DVI-DVI-246	M30FP DVI Adapter	2.01 x 0.92 x 0.69 in (5.1 x 2.3 x 1.8 cm)	Ivory	760106302

SP-L Type (Stainless Steel - Labeled) Faceplates



Left: M13SP-L, Right: M16SP-L

SP-L Type Faceplates are flush-mounted US standard stainless steel faceplates that provide a labeling feature. They are available in one, two, three, four, six and eight port outlet configurations.

These plates will accept all CommScope UTP/FTP modular information outlets for voice and data, as well as a select group of fiber optic adapters and couplers.

The SP-L Type plates are also compatible with CommScope's multimedia adapters / couplers. Mounting screws, label covers and label cards are included.

SP-L Type Flush-Mounted Faceplates (Labeled)

Product Number	Detailed Description	H x W x D	Material ID
M11SP-L	1-Port with label field	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760072074
M12SP-L	2-Port with label field	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760072181
M13SP-L	3-Port with label field	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760072199
M14SP-L	4-Port with label field	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760072207
M16SP-L	6-Port with label field	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760072215
M24SP-L	4-Port with label field (Double gang)	4.50 x 4.60 x 0.16 in (11.2 x 11.7 x 0.4 cm)	760100875
M28SP-L	8-Port with label field (Double gang)	4.50 x 4.60 x 0.16 in (11.2 x 11.7 x 0.4 cm)	760100883

SP Type (Stainless Steel) Faceplates



M14SP

SP Type Faceplates are flush-mounted US standard stainless steel faceplates. They are available in one, two, three, four and six port outlet configurations.

These plates will accept all CommScope UTP/FTP modular information outlets for voice and data, as well as a select group of fiber optic adapters and couplers.

The SP style plates are also compatible with CommScope's multimedia adapters / couplers. Mounting screws are included.

SP Type Flush-Mounted Faceplates

Product Number	Detailed Description	H x W x D	Material ID
M11SP	1-Port	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760100867
M12SP	2-Port	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	108615188
M13SP	3-Port	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	108615196
M14SP	4-Port	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	108615204
M16SP	6-Port	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	108615212
M10LW	1-Port wall phone plate (3.28" lug spacing)	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	760024463
630B8	Wall phone plate kit with voice module (4" lug spacing)	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	104206701

MMFP Type Flush-Mounted Multimedia Faceplate


M10MMFP-246

The M10MMFP Faceplate provides the opportunity to deploy copper and fiber media to the workstation for new and existing installations. The product enables you to fasten a flush-mount faceplate (i.e. M12L, M14L, M12LE, M14LE, etc.) to the front of the unit—for installation of up to 6 copper CommScope information outlets and provides alternatives for fiber connectors installed vertically at the base of the product. It may be configured with ST, SC or LC adapters in various densities.

Adapter plates are provided for use with the SC duplex, LC duplex or the high-density modular adapter strips available for ST, SC and LC connectors. The plates can be installed either right at the base (exposed) or recessed in unit, providing additional protection for the fibers. Additionally, the fiber adapter strips provide high-density capability for customer applications.

The M10MMFP incorporates fiber slack storage to manage fiber termination. The M10MMFP also features either rear (4) or side (2) entry ports for cabling, providing flexibility for either wall-mount or raceway installs.

The attractive cover snaps onto the base, providing protection for the fiber connections. The cover also provides labeling features such as a paper label for circuit identification and plastic icon strips (in 9 colors). In addition, the cover may be attached to the base with the screws, affording tamper resistance.

The M10MMFP Multimedia Faceplate includes: 1 multimedia unit (cover and base); 3 Fiber Adapter Plates- SC Adapter Plate, LC Adapter Plate and Plate for SC, ST or LC adapter strips; 1-1/4 in truss head screws; K35 by 12 mm pan head Phillips PT® screws; label; clear plastic label cover; installation instructions; plastic icon strips in 9 colors (gray, blue, yellow, orange, red, white, brown and purple).

MMFP Type Flush-Mounted Multimedia Faceplate

Product Number	Detailed Description	H x W x D	Color	Material ID
10MMFP-003	Multimedia	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	Black	108502287
M10MMFP-246	Multimedia	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	Ivory	108502303
M10MMFP-262	Multimedia	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	White	108502329
M10MMFP-270	Multimedia	4.50 x 2.75 x 0.16 in (11.2 x 7.0 x 0.4 cm)	Gray	108502337

Mounting Frames


Flush-Mounted Modular Mounting Frames

The M105, M106 and M108 Modular Mounting Frames are flush-mounted multi-outlet modular mounting frames designed for use with all CommScope modular information outlets. The 105 and 106 series mount behind a standard 106 NEMA faceplate. 108 series frames mount behind standard Decora electrical faceplates.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

Mounting Frames (106 and Decora style)

Product Number	Detailed Description	H x W x D	Color	Material ID
M105FR1-246	1-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Ivory	106622160
M105FR1-262	1-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	White	106622178
M105FR1-270	1-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Gray	106688401
M106FR2-148	2-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Almond	760101287
M106FR2-003	2-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Black	106628852
M106FR2-246	2-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Ivory	106622210
M106FR2-262	2-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	White	106622251
M106FR2-270	2-Port	4.10 x 1.75 x 0.50 in (10.4 x 4.4 x 1.3 cm)	Gray	106688393
M106FR4-003	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Black	106627763
M106FR4-246	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Ivory	106622277
M106FR4-262	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	White	106622285
M106FR4-270	4-Port	2.81 x 4.81 x 0.29 in (7.1 x 12.2 x 0.7 cm)	Gray	106688385
M108FR1-148	1-Port*	4.16 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Almond	760092064
M108FR1-003	1-Port*	4.16 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Black	760092163
M108FR1-246	1-Port*	4.16 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Ivory	760092171
M108FR1-262	1-Port*	4.16 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	White	760092189
M108FR1-270	1-Port*	4.16 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Gray	760092197
M108FR3-148	3-Port*	3.93 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Almond	760074229
M108FR3-003	3-Port*	3.93 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Black	108265430
M108FR3-246	3-Port*	3.93 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Ivory	108265448
M108FR3-262	3-Port*	3.93 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	White	108265455
M108FR3-270	3-Port*	3.93 x 1.40 x 0.29 in (10.0 x 3.6 x 0.7 cm)	Gray	108265463

* Denotes Decora Mounting Frame

Mounting Frame (Extron Cable Cubby®)


MFR6-EXT-003

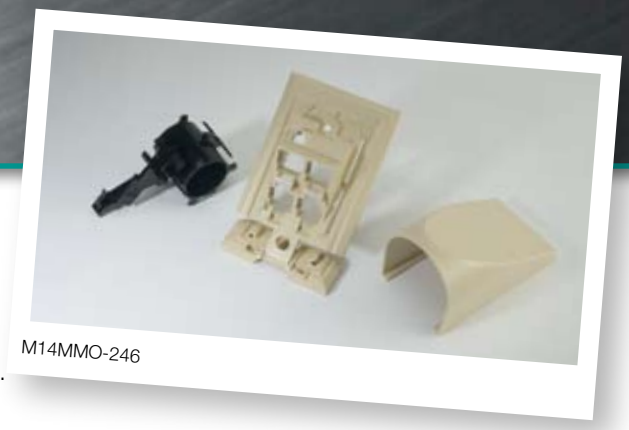
The CommScope 6-Port Adapter Plate for Extron Enclosure Applications allows the user to integrate any CommScope information outlet, adapter or coupler into an Extron Cable Cubby type enclosure. The metal adapter plate features a snap-in plastic bezel and four K-Lock nuts to secure the unit inside the enclosures.

Using the CommScope adapter plates in unison with the Extron Cable Cubby extends the choices of audio, video, and data connections to the user work space in an enclosed and very aesthetically pleasing manner. Typical environments that benefit from this combination of products would range from commercial office or educational facilities, as well as high-end residential and retail spaces.

Mounting Frame (Extron Cable Cubby)

Product Number	Detailed Description	Material ID
MFR6-EXT-003	6-Port Adapter Plate for Extron Enclosure Applications	760077859

MMO Type Flush-Mounted (Angled) Faceplate


M14MMO-246

This 4-Port Faceplate is designed to mount on a wall surface and will fit any standard National Electrical Manufacturers Association (NEMA) electrical box. The flush-mounted faceplate has 45 degree angular ports for fiber and copper connectors and has a protective angled hood. The hinged base of the faceplate allows changes and maintenance to occur without reinstalling the faceplate. The fiber organizer spool bend-radius provides control and storage for fiber slack.

This faceplate can be used in the following environments:

- In an ALL COPPER environment, the 4-Port Flush Mount Faceplate will support up to four CommScope information outlets, four LC mounting modules, or adapters. When fiber is introduced into the application, the number of ports available for connectors is reduced by one
- In an ALL FIBER environment, the M14MMO will support two simplex ST or SC connectors, four LC connectors, or two duplex SC connectors
- In an integrated FIBER/COPPER environment, the 4-Port Flush Mount Faceplate will support one CommScope information outlet and two simplex SC or ST connectors, or one CommScope information outlet and one duplex SC connector

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic
Hood & Faceplate Depth: 2.77” (7.0 cm)
Hood, Faceplate & Spool Depth: 5.30” (13.5 cm)

MMO Type Flush-Mounted (Angled) Faceplate

Product Number	Detailed Description	H x W x D	Color	Material ID
M14MMO-003	4-Port	5.69 x 3.28 x 1.29 in (14.5 x 8.30 x 3.3 cm)	Black	107655169
M14MMO-246	4-Port	5.69 x 3.28 x 1.29 in (14.5 x 8.30 x 3.3 cm)	Ivory	107655177
M14MMO-262	4-Port	5.69 x 3.28 x 1.29 in (14.5 x 8.30 x 3.3 cm)	White	107655185
M14MMO-270	4-Port	5.69 x 3.28 x 1.29 in (14.5 x 8.30 x 3.3 cm)	Gray	107655193

M4CA Type (Adjustable) Furniture Facepate


M4CA-262

M4CA Faceplate is designed for modular furniture applications requiring either fiber and/or copper connectivity. The M4CA will accommodate up to 4 CommScope information outlets or adapters. The M4CA will also accommodate 4 fiber modular telecommunications outlets such as the “LC couplings and jumpers for modular furniture” within TIA standard cavity depth of 1.2 inch minimum. The angle mount fiber jumper assemblies may also be used with this faceplate.

Modular office furniture manufacturers have used a wide range of panel openings for their data and voice outlets. The M4CA will adjust to fit many of these. It may be mounted on any flat surface with a material thickness of 0.025 in. to 0.125 in. (0.63 mm to 3.18 mm). It may be easily installed in any rectangular opening size ranging from 1.7 in. high by 2.792 in. wide (4.32 cm x 7.09 cm) to 2.375 in. high by 4.125 in. wide (6.03 cm x 10.48 cm).

The surface finish is the same as that used on the LE series faceplates. Each M4CA kit includes frame, cover, latch bars (shipped attached to the frame) and a paper label that may be used for identification of each port, along with a protective clear plastic label cover.

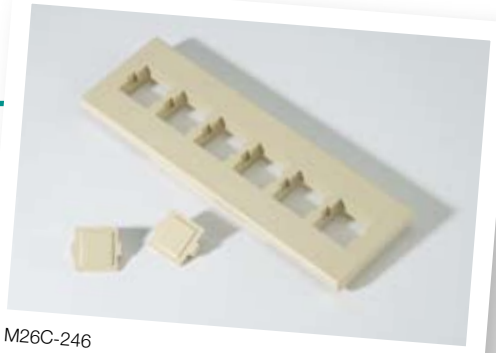
Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M4CA Type (Adjustable) Furniture Faceplate

Product Number	Detailed Description	H x W x D	Color	Material ID
M4CA-003	4-Port	2.98 x 3.28 x 0.5 in (7.6 x 8.30 x 1.3 cm)	Black	700189046
M4CA-262	4-Port	2.98 x 3.28 x 0.5 in (7.6 x 8.30 x 1.3 cm)	White	700191588
M4CA-246	4-Port	2.98 x 3.28 x 0.5 in (7.6 x 8.30 x 1.3 cm)	Ivory	700191570
M4CA-270	4-Port	2.98 x 3.28 x 0.5 in (7.6 x 8.30 x 1.3 cm)	Gray	700191596

M26C Type Funiture Faceplate


M26C-246

The M26C Modular Furniture 6-Port Faceplate is a flush mounted faceplate designed to snap into modular furniture raceway covers. The M26C holds up to six CommScope information outlets or adapters. Both sides of the faceplate are numbered for easy installation and maintenance identification. The M20AP dust cover/blank can be used to protect unused outlets and cover unused faceplate openings. Fits modular furniture knock-out size 1.374 in. (3.49 cm) high x 5.251 in. (13.34 cm) wide.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M26C Type Furniture Faceplate

Product Number	Detailed Description	H x W x D	Color	Material ID
M26C-246	6-Port	1.9 x 5.6 x 0.5 in (4.8 x 14.2 x 1.3 cm)	Ivory	107167496

M13C/M13CLS Type Furniture Faceplates


Left: M13CLS-003, Right: M13C-246

The M13C and M13CLS Modular Furniture Triplex Outlet Faceplates are flush mounted triplex modular faceplates designed to fit modular furniture raceway covers for the following SteelCase furniture lines: (E)9000, Segment (with correct bezel), Answer, Montage, Avenir, Elective Elements and Contex. The M13C holds up to three CommScope information outlets and has numbering on both sides of the faceplate for installation and maintenance identification. The M13C Faceplate is used in an opening size of 1.38 in. (35.1 mm) in height and 2.71 in. (68.8 mm) in width (dimensions are +/-.01 in).

The M13CLS Faceplate is part of the LazrSPEED Solution and it holds modules that snap in vertically and can also be angled. The M13CLS Faceplate is used in an opening size of 1.375 in. +/- 0.025 in. (34.93 mm +/- 0.64 mm) in height and 2.700 in. +/- 0.050 in. (68.58 mm +/-1.27 mm) in width. This 1.38H x 2.71W dimension is part of the TIA569 spec for modular furniture.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M13C/M13CLS Type Furniture Faceplates

Product Number	Detailed Description	H x W x D	Color	Material ID
M13C-003	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Black	106650864
M13C-246	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Ivory	106650880
M13C-262	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	White	106650898
M13C-270	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Gray	106701154
M13CLS-003	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Black	108564709
M13CLS-246	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Ivory	108564675
M13CLS-262	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	White	108564683
M13CLS-270	3-Port	1.84 x 3.13 x 0.29 in (4.7 x 7.9 x 0.7 cm)	Gray	108564691

M13HM Type Funiture Faceplate


M13HM-003

The M13HM Faceplate is designed to fit to the data communications opening in the Herman-Miller Action Office System series of modular furniture.

The M13HM will accommodate three CommScope information outlets or adapters. Above the port openings is space for a paper label insert with a clear plastic label holder (included). Mounting clips are molded within the M13HM faceplate. No screws required for mounting and securing the faceplate to the opening.

M13HM Type Funiture Faceplate

Product Number	Detailed Description	H x W x D	Color	Material ID
M13HM-003	3-Port	2.13 x 3.5 x 0.25 in (5.5 x 8.8 x 0.65 cm)	Black	760045039
M13HM-246	3-Port	2.13 x 3.5 x 0.25 in (5.5 x 8.8 x 0.65 cm)	Ivory	760045047
M13HM-262	3-Port	2.13 x 3.5 x 0.25 in (5.5 x 8.8 x 0.65 cm)	White	760045054
M13HM-270	3-Port	2.13 x 3.5 x 0.25 in (5.5 x 8.8 x 0.65 cm)	Gray	760045062

M14C Type Furniture Faceplates


M14C-003

The M14 Series Modular Furniture 4 port faceplates hold up to four CommScope information outlets or M81-Series Mounting Modules. Both sides of the faceplate are numbered for easy installation and maintenance identification.

The M14C Faceplate is a flush mounted modular faceplate designed to fit the Knoll, Inc. line of modular furniture raceway covers. Packaged with two color coordinated M20AP dust cover/ blanks to cover unused ports. The M14C Faceplate is used in an opening size of 1.609 in. in height and 3.358 in. in width (dimensions are +/- .01 inch).


M14CE-246

The M14CE Faceplate is designed to fit SteelCase modular furniture and is used in an opening size of 1.38 in. (3.51 cm) in height and 2.71 in. (6.88 cm) in width.

The M14CH is a 4-Port flush mounted modular faceplate. The M14CH Faceplate is used in an opening of 1.750 inches in height and 2.832 inches in width (dimensions are +/- 0.005 in.).


M14CH-246

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M14C Type Furniture Faceplates

Product Number	Ports	H x W x D	Color	Material ID
M14C-003	4-Port	2.11 x 4.07 x 0.53 in (5.3 x 10.3 x 1.3 cm)	Black	106650849
M14C-262	4-Port	2.11 x 4.07 x 0.53 in (5.3 x 10.3 x 1.3 cm)	White	760071258
M14C-270	4-Port	2.11 x 4.07 x 0.53 in (5.3 x 10.3 x 1.3 cm)	Gray	107167462
M14C-148	4-Port	2.11 x 4.07 x 0.53 in (5.3 x 10.3 x 1.3 cm)	Almond	107167488
M14CE-003	4-Port	2.16 x 4.07 x 1.27 in (5.5 x 10.3 x 3.2 cm)	Black	108216151
M14CE-246	4-Port	2.16 x 4.07 x 1.27 in (5.5 x 10.3 x 3.2 cm)	Ivory	108216144
M14CE-262	4-Port	2.16 x 4.07 x 1.27 in (5.5 x 10.3 x 3.2 cm)	White	108216128
M14CE-270	4-Port	2.16 x 4.07 x 1.27 in (5.5 x 10.3 x 3.2 cm)	Gray	108216136
M14CH-003	4-Port	2.0 x 3.13 x 0.38 in (5.1 x 3.13 x 1.0 cm)	Black	108406414
M14CH-246	4-Port	2.0 x 3.13 x 0.38 in (5.1 x 3.13 x 1.0 cm)	Ivory	108406422
M14CH-262	4-Port	2.0 x 3.13 x 0.38 in (5.1 x 3.13 x 1.0 cm)	White	108406430
M14CH-270	4-Port	2.0 x 3.13 x 0.38 in (5.1 x 3.13 x 1.0 cm)	Gray	108406448

M14CE-E Modular Furniture Faceplates


M14CE-E-246

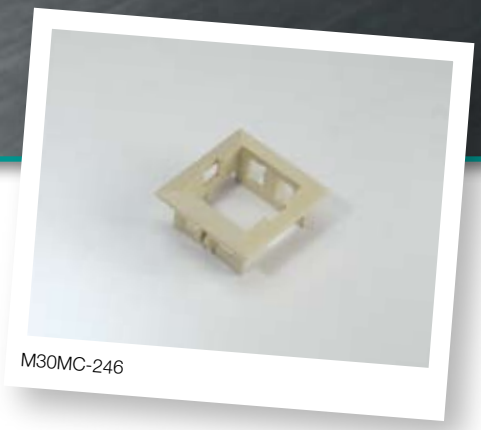
The M14CE-E consists of a faceplate frame, 4-port faceplate label and label cover. It is designed to mount to a TIA-569 specified modular furniture opening of 2.71 inches (6.9 cm) inches wide by 1.38 inches (3.5 cm) high. The 4 port faceplate snaps easily into the frame.

The M14CE-E consists of two versions. Both versions have modified frames to allow easier routing and termination of cable diameters up to .315 inches (0.8 cm). The M14CE-E .08 fits into wall thickness up to .08 inches (2 cm) and the M14CE-E .125 fits into wall thickness up to .125 inches (3.2 cm).

M14CE-E Modular Furniture Faceplates

Product Number	Ports	H x W x D	Color	Material ID
M14CE-E -262 Faceplate 0.08 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	White	760118232
M14CE-E -003 Faceplate 0.08 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Black	760118240
M14CE-E -246 Faceplate 0.08 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Ivory	760118257
M14CE-E -270 Faceplate 0.08 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Gray	760115265
M14CE-E -148 Faceplate 0.08 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Almond	760121756
M14CE-E -262 Faceplate 0.125 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	White	760118273
M14CE-E -003 Faceplate 0.125 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Black	760118281
M14CE-E -246 Faceplate 0.125 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Ivory	760118299
M14CE-E -270 Faceplate 0.125 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Gray	760118307
M14CE-E -148 Faceplate 0.125 Snap	4-Port	2.20 x 4.09 x 1.598 (5.6 x 10.4 x 4.1 cm)	Almond	760121764

M30MC Mounting Collar


M30MC-246

The M30MC Mounting Collar is designed to fit into a rectangular opening. The width of the opening will always be 0.763 inch (19.38 mm). However, the height of the opening is variable based on the thickness of the material into which the collar is pressed. The material thickness is restricted to the range, 0.025 inch to 0.125 inch (0.64 mm to 3.17 mm).

The M30MC collar supports a single voice or data outlet or any M81 series adapter or coupler.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M30MC Mounting Collar

Product Number	H x W x D	Color	Material ID
M30MC-003	1.00 x 1.03 x 0.46 in (2.5 x 2.6 x 1.2 cm)	Black	106664154
M30MC-246	1.00 x 1.03 x 0.46 in (2.5 x 2.6 x 1.2 cm)	Ivory	106664139
M30MC-262	1.00 x 1.03 x 0.46 in (2.5 x 2.6 x 1.2 cm)	White	106664147
M30MC-270	1.00 x 1.03 x 0.46 in (2.5 x 2.6 x 1.2 cm)	Gray	106697089

M30CC Mounting Collar


M30CC-246

The M30CC Circular Collar is a plastic circular collar designed to support CommScope information outlets. The M30CC can be used in furniture such as a desk or cabinet, on a flat wall panel, or on a flat metal panel. The supporting panel or wall structure must be between 0.04 in. and 0.13 in (0.1 cm and 0.32 cm) in thickness, inclusively.

The M30CC collar supports a single voice or data outlet or any M81 series adapter or coupler.

M30CC Mounting Collar

Product Number	Outside Dia.	Depth	Color	Material ID
M30CC-246	1.60 in (4.1 cm)	0.50 in (1.3 cm)	Ivory	106986110

Plate Thickness (inches)	Opening (inches)
0.025	0.828
0.030	0.833
0.035	0.838
0.040	0.843
0.045	0.849
0.050	0.854
0.055	0.859
0.060	0.864
0.065	0.869
0.070	0.874
0.075	0.879

Plate Thickness (inches)	Opening (inches)
0.080	0.884
0.085	0.889
0.090	0.894
0.095	0.900
0.100	0.905
0.105	0.910
0.110	0.915
0.115	0.920
0.120	0.925
0.125	0.930

* Chart provides recommended openings for bare metal only (manufacturer should consider coating/plating thickness)

M40 Surface Mount Box and Accessories


M40A1-B-262

The M40 is a surface-mounted plastic enclosure designed to support a copper/fiber intergrated environment, an all copper environment or an all fiber environment.

The M40 design makes it versatile by utilizing removable panel inserts allowing termination of copper, fiber or composite cables. Panels are available to hold CommScope information outlets or adapters, ST, SC and LC adapters.

The M40 outlet comes equipped with one M40RJ4A and one M40ST8 panel. Other panels and accessories must be ordered separately.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M40 Surface Mount Box and Accessories

Product Number	Detailed Description	H x W x D	Color	Material ID
M40A1-B-262	Surface Box with M40RJ4A and M40ST8	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	107992927
M40ST8-B-262	Insert Panel Holds 8 ST Couplings	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	107239485
M40DSC4-B-262	Insert Panel Holds 4 Duplex SC Couplings	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	107239493
M40R-J2-246	Insert Panel Holds 3 RJ45 Jacks	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	106669278
M40RJ4A-262	Insert Panel Holds 4 RJ45 Jacks, 4 M81 Mounting Modules	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	108004268
M40ST4-262	Insert Panel Holds 4 ST Couplings	6.88 x 5.79 x 1.70 in (17.5 x 14.7 x 4.3 cm)	White	107800658

M101 Type Surface Mount Box


M101SMB-B-270

The M101SMB Modular Surface Mount Box is designed for use with one modular information outlet (copper or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M101 Type Surface Mount Box

Product Number	H x W x D	Color	Material ID
M101SMB-B-003	2.26 x 1.22 1.29 in (5.7 x 3.1 x 3.3 cm)	Black	107983983
M101SMB-B-246	2.26 x 1.22 1.29 in (5.7 x 3.1 x 3.3 cm)	Ivory	107984007
M101SMB-B-262	2.26 x 1.22 1.29 in (5.7 x 3.1 x 3.3 cm)	White	107984015
M101SMB-B-270	2.26 x 1.22 1.29 in (5.7 x 3.1 x 3.3 cm)	Gray	107984007

M102 Type Surface Mount Box


M102SMB-B-262

The M102SMB Modular Surface Mount Box is a modular surface mounted duplex box designed for use with one or two CommScope modular information outlets (copper and/or fiber). It can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. This unit will accept 22-26 gauge cable.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M102 Type Surface Mount Box

Product Number	H x W x D	Color	Material ID
M102SMB-B-003	2.26 x 2.06 x 1.29 in (5.7 x 5.2 x 3.3 cm)	Black	107984031
M102SMB-B-246	2.26 x 2.06 x 1.29 in (5.7 x 5.2 x 3.3 cm)	Ivory	107984049
M102SMB-B-262	2.26 x 2.06 x 1.29 in (5.7 x 5.2 x 3.3 cm)	White	107984056
M102SMB-B-270	2.26 x 2.06 x 1.29 in (5.7 x 5.2 x 3.3 cm)	Gray	107984064

M104 Type Surface Mount Box

The M104SMB Modular Surface Mount Box is a modular multimedia surface mounted 4-port box designed for use with one to four modular jacks (copper and/or fiber). The M104SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. One mounting magnet kit is required for mounting on steel walls or furniture.

The outlet openings are numbered on both the base and cover for installation and maintenance identification. The M104SMB is packaged with three color-coordinated M20AP Dust Covers/Blanks to cover any unused jacks. This unit will accept 22-26 gauge cable.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M104 Type Surface Mount Box

Product Number	H x W x D	Color	Material ID
M104SMB-A-003	2.83 x 3.92 x 1.20 in (7.2 x 10.0 x 3.0 cm)	Black	107952475
M104SMB-A-246	2.83 x 3.92 x 1.20 in (7.2 x 10.0 x 3.0 cm)	Ivory	107952442
M104SMB-A-262	2.83 x 3.92 x 1.20 in (7.2 x 10.0 x 3.0 cm)	White	107952459
M104SMB-A-270	2.83 x 3.92 x 1.20 in (7.2 x 10.0 x 3.0 cm)	Gray	107952467

M106 Type Surface Mount Box

The M106SMB Modular Surface Mount Box is a modular multimedia surface mounted 6-port box designed for use with one to six modular jacks (copper and/or fiber). It is used to terminate 25-pair Category 5 cable at the transition point or to terminate 4-pair wiring in the work location subsystem or to terminate 4 strands of fiber. The M106SMB can be mounted on a flat horizontal surface or on a wall using two mounting screws, double-sided sticky tape or magnets.

The M106SMB has a storage device/area for storing unterminated copper conductors.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M106 Type Surface Mount Box

Product Number	H x W x D	Color	Material ID
M106SMB-003	5.49 x 4.81 x 1.22 in (13.9 x 12.2 x 3.1 cm)	Black	107431520
M106SMB-246	5.49 x 4.81 x 1.22 in (13.9 x 12.2 x 3.1 cm)	Ivory	107431546
M106SMB-262	5.49 x 4.81 x 1.22 in (13.9 x 12.2 x 3.1 cm)	White	107431538
M106SMB-270	5.49 x 4.81 x 1.22 in (13.9 x 12.2 x 3.1 cm)	Gray	107431553

M112 Type Surface Mount Box



M112SMB-246

The M112SMB Modular Surface Mount Box is a 12-Port modular multimedia surface mounted box designed for use with 1 to 12 modular jacks and/or fiber modules. The M112SMB can be mounted on a flat surface using the screws or the double-sided adhesive tape provided. Four mounting magnets (optional) are required for mounting on steel walls or furniture. The M112SMB is packaged with six color-coordinated M20AP Dust Cover/Blanks to cover any unused jacks. The outlet openings are numbered on both the base and cover for installation and maintenance identification.

Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M112 Type Surface Mount Box

Product Number	H x W x D	Color	Material ID
M112SMB-003	9.13 x 4.81 x 1.30 in (23.3 x 12.2 x 3.3 cm)	Black	106658164
M112SMB-246	9.13 x 4.81 x 1.30 in (23.3 x 12.2 x 3.3 cm)	Ivory	106658149
M112SMB-262	9.13 x 4.81 x 1.30 in (23.3 x 12.2 x 3.3 cm)	White	106658156
M112SMB-270	9.13 x 4.81 x 1.30 in (23.3 x 12.2 x 3.3 cm)	Gray	106688419

Accessories For Surface Mount Boxes (100 Series)

The SMBFG fiber organizer has a small spindle to protect and support the fiber bend radius and two guides to route the fiber to the connector. It supports up to four fibers in an all-fiber environment in the M106SMB modular surface mount box and supports up to six fibers in an all-fiber environment in the M112SMB modular surface mount box.

The 345A mounting magnet contains two magnets and is used with the M104SMB modular surface-mount box.

The 362PS zone wiring kit labels are used with the M106SMB and M112SMB modular surface mount boxes.

The D180880 mounting magnet kit contains four magnets and is used with the M106SMB and M112SMB modular surface mount boxes.

100 Series Surface Mount Box Accessories

Product Number	Detailed Description	Material ID
SMBFG	Fiber Organizer	107431512
345A	Mounting Magnet	106928765
362PS	Zone Wiring Kit Labels	108035049
D180880	Mounting Magnet Kit	103184156

M200 Surface Mount Boxes



M204SMB-003

200 Series Surface Mount Boxes are designed for interior surface mount applications and can support copper and fiber terminations. All information outlets simply snap into place. The 2, 4, and 8-port boxes are UL-rated and available in four standard colors.

The 200 series surface mount boxes can support new generation, larger diameter data cables, and offer multiple cable entrances through the base and/or sides.

The 200 series surface mount boxes are equipped with the corresponding number of dust covers and two port adapter housings. These adapter housings support two outlets each. A variety of other adapters are available but not included to configure LC, ST and SC fiber couplers, copper outlets, VGA, S-Video, Coax, BNC, and RCA couplers.



M208SMB-246

Features and Benefits:

- Support a wide range of applications and configurations using the following snap-in components: 8 Position Modular Outlets; S-Video Outlets; VGA Adapters; RCA Adapters; BNC Adapters; Coaxial Couplers
- Can support new generation, larger diameter data cables
- Cable entrances available through the base and/or sides
- Can mount to solid surfaces or single gang electrical boxes
- Easy front access to outlets, adapters and couplers
- Includes dust covers, cable ties, labels/label holders, adhesive backed velcro, double sided tape and screws
- Comes with label and label cover as well as a smooth surface for labeling the front of the enclosure
- Snap-in fiber spool is included to assist with fiber management (does not apply to the M202SMB and M204ASMB)
- Material: Plastic



M202SMB-003

Applications:

- Consolidation point for zone wiring
- High speed data applications where larger cables are required (10G)
- Multimedia applications using copper, fiber and coaxial
- Utilized on kick plates for modular office furniture
- Plenum version for wireless access points and IP cameras

M200 Surface Mount Boxes

Product Number	Detailed Description	Color	Material ID
M202SMB-003	2-Port Surface Mount Box	Black	760057349
M202SMB-262	2-Port Surface Mount Box	White	760057364
M202SMB-246	2-Port Surface Mount Box	Ivory	760057356
M202SMB-270	2-Port Surface Mount Box	Gray	760057331
M202 Plenum SMB-262	2-Port Surface Mount Box	White	760067207
M204ASMB-003	4-Port Surface Mount Box	Black	760057380
M204ASMB-262	4-Port Surface Mount Box	White	760057372
M204ASMB-246	4-Port Surface Mount Box	Ivory	760057398
M204ASMB-270	4-Port Surface Mount Box	Gray	760057406
M204SMB-003	4-Port Surface Mount Box	Black	760045005
M204SMB-246	4-Port Surface Mount Box	Ivory	760045013
M204SMB-262	4-Port Surface Mount Box	White	760044990
M204SMB-270	4-Port Surface Mount Box	Gray	760045021
M208SMB-003	8-Port Surface Mount Box	Black	760057422
M208SMB-262	8-Port Surface Mount Box	White	760057414
M208SMB-246	8-Port Surface Mount Box	Ivory	760057430
M208SMB-270	8-Port Surface Mount Box	Gray	760057448

M224 Type Zone Box


M224CPN-246

The low profile M224CPN Consolidation Box is introduced as an enhancement to the zone wiring architecture.

This product provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The slim design permits installation in a variety of non-plenum spaces such as under floors, limited space closets, inside paneled furniture, on walls in plain view and on shelves. The box can be mounted, with additional support, to single- or dual-gang electrical type boxes. For best results, the box is mounted on a flat surface, horizontally or vertically. The M224CPN is substantially smaller than the M36P (36-Port plenum) box, only 27% of the box volume and 36% of the box area.

The box design utilizes four removable panels that can accommodate a variety of copper and fiber based connectors. Each panel will hold up to six connectors each. The box has a capacity of 24 dual SC connectors, single SC connectors, dual LC connectors, ST connectors, copper outlets, S-Video, RCA, BNC and F-type video connectors, or any combination thereof. Connector types can be mixed and matched within the box by using two different panels. The box comes equipped with four 6-port inserts, two blank inserts, 12 dust covers for port openings, closing screws, wire ties, and instructions.

This panel has the most variety in connector options; it accommodates all but the dual SC connectors.
Three fiber optic splice organizers are available which will accommodate fusion, mechanical or mass fusion splices.

Features and Benefits:

- Non-metallic housing
- 24-Port capacity
- Accommodates copper information outlets, fiber connectors and copper and fiber terminations
- Can be populated with any CommScope voice, data or video outlet
- Expandable/Stackable features
- Easy access for terminations and moves, adds and changes
- Designed for mounting in various non-plenum environments (i.e., on the floor, under floor tile, surface mount, wall, furniture, inside cabinets)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access that does not expose horizontal cables/terminations

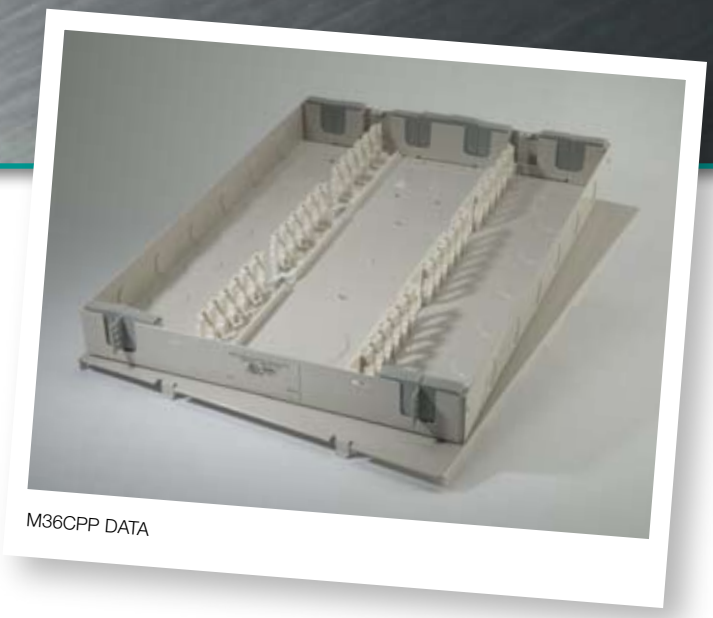
Physical Specifications:

Burn Rating: Non-plenum

M224 Type Zone Box

Product Number	Detailed Description	H x W x D	Color	Material ID
M224CPN-003	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Black	700016462
M224CPN-246	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Ivory	700016470
M224CPN-270	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Gray	700016496
M224CPN-262	Box Base Cover, 4 Six Port Panels, 2 Blank Panels	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	White	700016488
M224MSP-003	Panel Kit Includes 4 Six Port Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Black	700016504
M224MSP-246	Panel Kit Includes 4 Six Port Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Ivory	700016512
M224MSP-262	Panel Kit Includes 4 Six Port Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	White	700016520
M224MSP-270	Panel Kit Includes 4 Six Port Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Gray	700016538
M224SCP-003	Panel Kit Includes 4-Dual SC Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Black	700019482
M224SCP-246	Panel Kit Includes 4-Dual SC Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Ivory	700019490
M224SCP-262	Panel Kit Includes 4-Dual SC Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	White	700019508
M224SCP-270	Panel Kit Includes 4-Dual SC Panels of One Color	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	Gray	700019516
M224FOS-262	Fiber Optic Spool Kit Includes 2 White Spools	12.14 x 8.45 x 1.44 in (30.8 x 21.5 x 3.7 cm)	White	700016553

M36CPP Type Zone Box


M36CPP DATA

The M36CPP Data/Communication Distribution Box is a zone wiring box (i.e. consolidation point [CP]) that provides for the distribution of data and telecommunication signals throughout the work area environment. The box has 36 positions for copper and/or fiber connectors. It is intended to mount above ceilings or below floors in open office buildings.

The key benefit is that it saves costs in moves, adds and changes (MACs) when zone cabling is required in a plenum environment. The Box is UL Listed to meet the stringent plenum requirements. The National Electric Code allows locating this type of zone box in space used for environmental air.

The M36CPP Distribution Box Assembly comes with: connector bracket, plenum cover, plenum box, foam fence, fiber reel (optional to use), foam retainer, bushing (optional to use), fire foam, interconnection label, installation instructions, hex nut (No. 4-40), long pan-head screw (No. 8-32 by 3/38 in [9.5 mm]) and plenum cable tie.

M36CPP Type Zone Box

Product Number	Detailed Description	H x W x D	Material ID
M36CPP DATA	36-Port Zone Wiring Box	19.12 x 14.14 x 1.82 in (48.6 x 35.9 x 4.6 cm)	108482845

M48CPP Type Zone Box


M48CPP

The 48-Port Plenum Zone Wiring Box provides a connection and distribution point for data and telecom cables in installations requiring a consolidation point. The design includes a 3.35 in x 2.566 in (85.04 mm x 65.18 mm) rectangular bottom knockout to be used in conjunction with a standard dual-gang electrical box, in addition to twelve 0.75 in (19.05 mm) knockouts for use with conduit.

The size of the M48CCP design will allow installation in a variety of plenum spaces such as under floors and above ceilings. The design has 48 positions that accommodate a variety of copper, fiber and video connectors. It also has one fire foam entrance and four fire foam exit areas for plenum-rated cable (4-pair and 25-pair).

Features:

- 48-port capacity
- Support copper outlets, fiber connectors, copper and fiber terminations
- Easy access for terminations, moves, adds and changes
- Designed for mounting in various plenum and non-plenum environments (floor, under floor, surface mount or wall)
- Supports cable/port labeling
- Equipped with removable cover section for cord/label access and does not expose horizontal cables

M48CPP Type Zone Box

Product Number	Detailed Description	H x W x D	Material ID
M48CPP	48-Port Zone Wiring Box	13.08 x 14.0 x 4.25 in (33.2 x 35.6 x 10.8 cm)	700188923
110C Connecting Block	110C Connecting Block Kit for Plenum Box		760006395

L, LE and FP Type Faceplate Labels and Label Covers

Labels are on 8-1/2 x 11 inch sheets of paper that are to be used with a printer. The labels are easy to punch out since the paper is perforated in the shape of the labels. The clear label covers protect and hold the labels in place.

L, LE and FP Type Faceplate Labels and Label Covers

Product Number	Detailed Description	Min. Order Quantity	Material ID
L Type cover	L Type Faceplate Label Cover	5 pkgs, 100 covers per pkg.	108492927
LE/FP Type Cover	LE/FP-Type Faceplate Label Cover	5 pkgs, 100 covers per pkg.	108492935
L Type Labels	L Type Faceplate Label Card Sheet	50 pkgs, 10 sheets per pkg.	108492943
LE/FP Type Labels	LE/FP Type Faceplate Label Card Sheet	50 pkgs, 10 sheets per pkg.	108492950

M20/M21/M81 Dust Covers

The M20AP Covers are dual-purpose blank Dust Covers designed for use with the modular outlets and modular faceplate kits (except for the Shuttered clips and Benelux faceplates). When the M20AP is used as a Dust Cover, it is inserted over the outlet opening and will protect the jack wires from dust. The M20AP can also be used with modular faceplates as a blank cover for empty jack openings which are not populated with modular outlets.



M20AP-262

The M21A Dust Covers are for use with CommScope information outlets. The M21A installs over the Jack opening of the outlet, leaving the Icon area visible.

The M20AP and the M21A are packaged 100 to a bag with 5 bags in a box.

The M81 (Blank) is a rear snap-in dust cover to fill empty or unused ports in all CommScope faceplates, surface and multi-media boxes, Mod style panels or related mounting housings where you would normally deploy an outlet or adapter.



M21A-246 (shown with information outlets)



Physical Specifications:

Plastic: High-impact, flame retardant, UL-rated 94 V-0, thermoplastic

M20/M21/M81 Dust Covers

Product Number	H x W x D	Color	Material ID
M20AP-003	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Black	107065583
M20AP-246	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Ivory	107067860
M20AP-262	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	White	107067928
M20AP-270	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Gray	107067951
M20AP-215	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Cream	108481003
M20AP-148	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Almond	760075051
M21A-003	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Black	108066325
M21A-112	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Orange	108066333
M21A-123	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Yellow	108066341
M21A-226	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Green	108066358
M21A-246	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Ivory	108066457
M21A-262	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	White	108066465
M21A-270	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Gray	108066473
M21A-317	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Red	108066481
M21A-318	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Blue	108066499
M21A-361	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Violet	108337692
M21A-215	0.69 x 0.75 x 0.20 in (1.8 x 1.9 x 0.05 cm)	Misty Cream	108480997
M81-003 (BLANK)	0.69 x 0.69 x 0.514 in (17 x 17 x 13 mm)	Black	106837206
M81-148 (BLANK)	0.69 x 0.69 x 0.514 in (17 x 17 x 13 mm)	Almond	760074237
M81-246 (BLANK)	0.69 x 0.69 x 0.514 in (17 x 17 x 13 mm)	Ivory	106837222
M81-262 (BLANK)	0.69 x 0.69 x 0.514 in (17 x 17 x 13 mm)	White	106837230

M60/M61 ICON Inserts



M61

The M60 and M61 ICONs are small plastic inserts used to depict applications on the Commscope information oulets. Both the M60 and M61are packaged in 25 in a polybag and 20 polybags in a box.

The M60 is a single piece ICON that mounts with the jack into the faceplate opening. When installed with the jack and faceplate the M60 ICON appears directly above the jack and is flush with the faceplate.

- Telephone—symbol representing a telephone application
- Computer—symbol representing a computer application
- DATA—word representing a data application
- VOICE—word representing a voice application
- Blank—has blank space for writing or denoting any application the user may designate or require

The M61 ICON is a strip of (3) ICONs. Each ICON in the M61 ICON strip will mount directly to the MGS style jack.

- GS—GigaSPEED representing GigaSPEED application either Cat6 or Cat6A
- MPSE—Power Sum representing Cat5E
- Comp—Computer symbol representing computer application
- Data—Word representing data application
- Voice—Word representing voice application
- Blank—Blank space for denoting any application the user may designate or require


M60A-003


M60B-226



M60D-317


M60C-123



M60E-123

M60/M61 ICON Inserts

Product Number	Detailed Description	Color	Material ID
M60A-003	Telephone ICON	Black	107296386
M60A-112	Telephone ICON	Orange	107296402
M60A-123	Telephone ICON	Yellow	107296394
M60A-246	Telephone ICON	Ivory	107296352
M60A-262	Telephone ICON	White	107296378
M60A-270	Telephone ICON	Gray	107296360
M60A-317	Telephone ICON	Red	107296428
M60A-318	Telephone ICON	Blue	107296436
M60B-003	Blank ICON	Black	107296485
M60B-112	Blank ICON	Orange	107296501
M60B-123	Blank ICON	Yellow	107296493
M60B-226	Blank ICON	Green	107296519
M60B-246	Blank ICON	Ivory	107296451
M60B-262	Blank ICON	White	107296477
M60B-270	Blank ICON	Gray	107296469
M60B-317	Blank ICON	Red	107296527
M60B-318	Blank ICON	Blue	107296444
M60C-112	Computer ICON	Orange	107296584
M60C-123	Computer ICON	Yellow	107296576
M60C-226	Computer ICON	Green	107296592
M60C-246	Computer ICON	Ivory	107296535
M60C-262	Computer ICON	White	107296550
M60C-270	Computer ICON	Gray	107296543
M60C-317	Computer ICON	Red	107296600
M60C-318	Computer ICON	Blue	107296618
M60D-003	DATA ICON	Black	107296659
M60D-112	DATA ICON	Orange	107296675
M60D-123	DATA ICON	Yellow	107296667
M60D-226	DATA ICON	Green	107296683
M60D-246	DATA ICON	Ivory	107296626
M60D-262	DATA ICON	White	107296642
M60D-270	DATA ICON	Gray	107296634
M60D-317	DATA ICON	Red	107296691

Product Number	Detailed Description	Color	Material ID
M60D-318	DATA ICON	Blue	107296709
M60E-003	Voice ICON	Black	107296741
M60E-112	Voice ICON	Orange	107296766
M60E-123	Voice ICON	Yellow	107296758
M60E-226	Voice ICON	Green	107296774
M60E-246	Voice ICON	Ivory	107296717
M60E-262	Voice ICON	White	107296733
M60E-270	Voice ICON	Gray	107296725
M60E-317	Voice ICON	Red	107296782
M60E-318	Voice ICON	Blue	107296790
M60M-148	Voice/Computer/Telephone ICON	Almond	760076034
M61K-003	Icon for MGS400	Black	760103762
M61K-112	Icon for MGS400	Blue	760103770
M61K-123	Icon for MGS400	Misty Cream	760103796
M61K-215	Icon for MGS400	Green	760103838
M61K-226	Icon for MGS400	Gray	760103788
M61K-246	Icon for MGS400	Ivory	760103747
M61K-262	Icon for MGS400	Orange	760103739
M61K-270	Icon for MGS400	Red	760103754
M61K-317	Icon for MGS400	White	760103812
M61K-318	Icon for MGS400	Yellow	760103804
M61K-361	Icon for MGS400	Violet	760100909
M61F-003	Voice Icon Connector	Black	108066234
M61F-112	Voice Icon Connector	Orange	108066242
M61F-123	Voice Icon Connector	Yellow	108066259
M61F-226	Voice Icon Connector	Green	108066267
M61F-246	Voice Icon Connector	Ivory	108066275
M61F-262	Voice Icon Connector	White	108066283
M61F-270	Voice Icon Connector	Gray	108066291
M61F-317	Voice Icon Connector	Red	108066309
M61F-318	Voice Icon Connector	Blue	108066317
M61H-003	Computer Icon, MPSE, DATA	Black	108373515
M61H-112	Computer Icon, MPSE, DATA	Orange	108373523
M61H-123	Computer Icon, MPSE, DATA	Yellow	108373531
M61H-215	Computer Icon, MPSE, DATA	Misty Cream	108481029
M61H-226	Computer Icon, MPSE, DATA	Green	108373549
M61H-246	Computer Icon, MPSE, DATA	Ivory	108373564
M61H-262	Computer Icon, MPSE, DATA	White	108373572
M61H-270	Computer Icon, MPSE, DATA	Gray	108373580
M61H-317	Computer Icon, MPSE, DATA	Red	108373598
M61H-318	Computer Icon, MPSE, DATA	Blue	108373606
M61H-361	Computer Icon, MPSE, DATA	Violet	108373614

Multimedia Adapters/Couplers

Each individually packaged adapter/coupler comes with (4) adapter housings (black, gray, ivory and white), with the exception of S-Video to 110 and the RCA to 110 products.

S-Video to 110 Punchdown Module

Product Number	Detailed Description	Material ID
M81-SVHS-110-003	Black S-Video/110 Connector	760005256
M81-SVHS-110-246	Ivory S-Video/110 Connector	760005264
M81-SVHS-110-262	White S-Video/110 Connector	760005272
M81-SVHS-110-270	Gray S-Video/110 Connector	760005280


M81-SVHS-110-003

S-Video to S-Video

Product Number	Detailed Description	Material ID
M81-SVHS-SVHS-003	S-Video Pass Through, Black	760101014
M81-SVHS-SVHS-246	S-Video Pass Through, Ivory	760101030
M81-SVHS-SVHS-262	S-Video Pass Through, White	760101048
M81-SVHS-SVHS-270	S-Video Pass Through, Gray	760101022


M81-SVHS-SVHS-270

RCA to 110 Punchdown Module

Product Number	Detailed Description	Material ID
M81-RCA-110-003-W	Black Housing/White Connector	760005298
M81-RCA-110-246-W	Ivory Housing/White Connector	760005306
M81-RCA-110-262-W	White Housing/White Connector	760005314
M81-RCA-110-270-W	Gray Housing/White Connector	760005322
M81-RCA-110-003-Y	Black Housing/Yellow Connector	760005330
M81-RCA-110-246-Y	Ivory Housing/Yellow Connector	760005348
M81-RCA-110-262-Y	White Housing/Yellow Connector	760005355
M81-RCA-110-270-Y	Gray Housing/Yellow Connector	760005363
M81-RCA-110-003-R	Black Housing/Red Connector	760005371
M81-RCA-110-246-R	Ivory Housing/Red Connector	760005389
M81-RCA-110-262-R	White Housing/Red Connector	760005397
M81-RCA-110-270-R	Gray Housing/Red Connector	760005405
M81-RCA-110-003-B	Black Housing/Black Connector	760005413
M81-RCA-110-246-B	Ivory Housing/Black Connector	760005421
M81-RCA-110-262-B	White Housing/Black Connector	760005439
M81-RCA-110-270-B	Gray Housing/Black Connector	760005447


M81-RCA-110-270-R

RCA to RCA Module (pass through)

Product Number	Detailed Description	Material ID
M81-RCA-PT-W	White Coupler	760005454
M81-RCA-PT-Y	Yellow Coupler	760005462
M81-RCA-PT-R	Red Coupler	760005470
M81-RCA-PT-B	Black Coupler	760005488


M81-RCA-PT-R

BNC to BNC Module (pass through)

Product Number	Detailed Description	Material ID
M81-BNC-B Coupler	BNC to BNC (50 ohm)	108009424
M81-BNC	BNC Coax Coupler (75 ohm)	760074914


M81-8BNC-B

F Coax to F Coax Module (pass-through)

Product Number	Detailed Description	Material ID
M81C	F-Coax Pass Through	108009432


M81C-Coupler

Audio Jack

Product Number	Detailed Description	Material ID
M81-S35MM-S35MM	3.5 mm Audio Jack (Ivory, White, Black and Gray Mounting Modules Included)	760101006


M81-S35MM-S35MM

The M30FP series of adapters are for use with the FP series faceplates or any 200 series surface mount box. Easy snap-in mounting and no assembly or tools required.

VGA to VGA (15 pin pass-through)

Product Number	Detailed Description	Material ID
M30-FP-VGA-PT-003	Black VGA Coupler	760028704
M30-FP-VGA-PT-246	Ivory VGA Coupler	760028712
M30-FP-VGA-PT-262	White VGA Coupler	760028720
M30-FP-VGA-PT-270	Gray VGA Coupler	760028738


M30-FP-VGA-PT-003 (front)

S-Video to 110

Product Number	Detailed Description	Material ID
M30-FP-SVHS-110-003	Black S Video to 110	760013094
M30-FP-SVHS-110-246	Ivory S Video to 110	760013102
M30-FP-SVHS-110-262	White S Video to 110	760013110
M30-FP-SVHS-110-270	Gray S Video to 110	760013128

RCA to 110

Product Number	Detailed Description	Material ID
M30-FP-3RCA-110-003	Black 3 Port RCA to 110	760017541
M30-FP-3RCA-110-246	Ivory 3 Port RCA to 110	760017558
M30-FP-3RCA-110-262	White 3 Port RCA to 110	760017566
M30-FP-3RCA-110-270	Gray 3 Port RCA to 110	760017574

DVI adapters can support one DVI connector and can be snapped on to all CommScope flexible faceplates (single or double gang), Tamper Resistant Faceplates, and the M208SMB Surface Mount Box.

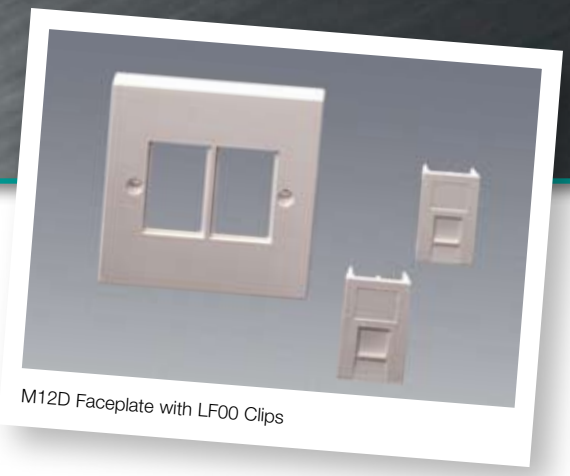
The DVI is a dual link female to female connector with three rows of eight pins and four contacts around the blade.

DVI to DVI

Product Number	Color	Dimensions (inches)	Material ID
M30FP DVI to DVI Adapter-003	Black	2.012 x 0.924 x 0.689	760106328
M30FP DVI to DVI Adapter-246	Ivory	2.012 x 0.924 x 0.689	760106302
M30FP DVI to DVI Adapter-262	White	2.012 x 0.924 x 0.689	760106294
M30FP DVI to DVI Adapter-270	Gray	2.012 x 0.924 x 0.689	760106310


M30 DVI to DVI Adapter

Modular Faceplates and Clips UK Applications


M12D Faceplate with LF00 Clips

The range of UK Standard Information Outlets consists of the M12D and M14D Faceplates and the LF80 and LF00 Clips. The M12D is a flush mounted, duplex, 2-gang UK/Ireland standard faceplate designed to accept two LF80 or LF00 clips (or any combination of the two). The M14D is a flush mounted, quadplex, 4-gang UK/Ireland standard faceplate designed to accept four LF80 or LF00 clips (or any combination of the two). The standard package for each includes the faceplate plus two mounting screws for installation in a UK standard 45 mm (for Mark V) or 32 mm (for Mark VI) electrical box.

The LF80 Clips (Mark V and Mark VI) fit into the M12D and M14D and accept one high-density module. The Mark V is equipped with a spring-loaded shutter to protect the HDM from dust. It can be cabled through the faceplate and fits into minimum 45 mm depth boxes. There is a provision for port labeling. The Mark VI is angled and has a unique shutter design. It can be cabled through the faceplate and fits into minimum 32 mm depth boxes.

The LF00 Clip is a blank snap-in clip used in vacant slots of the M12D or M14D faceplate.
The LF82 accommodates the GigaSPEED X10D MFP520 information outlets.

Physical Specifications:

Height: Faceplate: 8.50 cm
Clip: 3.8 cm
Width: Faceplate: M12D = 8.5 cm, M14D = 14.6 cm
Clip: 2.5 cm
Depth: Faceplate: 0.90 cm
Mark V and LF00 Clip: 1.4 cm
Mark VI Clip: 2.0 cm

Product Number	Detailed Description	Color	Material ID
LF80	LF80 Clip, 3.8 x 2.5 cm	White	760123786
LF80	LF80 Faceplate, 3.8 x 2.5 cm	Black	760123794
LF80	LF80 Faceplate, 3.8 x 2.5 cm	Yellow	760123828
LF80	LF80 Faceplate, 3.8 x 2.5 cm	Blue	760123802
LF80	LF80 Faceplate, 3.8 x 2.5 cm	Green	760123810
LF80 Angled Shuttered	LF80 Angled, 3.8 x 2.5 cm	White	760125179
LF80 Unshuttered	LF80 Unshuttered, 3.8 x 2.5 cm	White	760123836
LF82	2.25 x 4.5 cm	Black	999910015
LF82	2.25 x 4.5 cm	White	999910016
LF00 Blank	LF00 Module Blank, 3.8 x 2.5 cm	White	760130351
LF00 Blank	3.8 x 2.5 cm	Black	406985390
Quad Outlet Faceplate (4 Gang)	Faceplate 4 Gang, 8.6 x 14.6 cm	White	760123869
Double Outlet Faceplate (2 Gang)	Faceplate 2 Gang, 8.6 x 8.6 cm	White	760123851
45 mm Double Back Box (M14D)	8.6 x 14.6 cm	White	999901705
45 mm Back Box (M12D)	8.6 x 8.6 cm	White	999901702
4 Gang Euro Style Faceplate	8.6 x 14.6 cm	White	999910014
37 mm Double Back Box (M14D)	8.6 x 14.6 cm	White	999901704
37 mm Back Box (M12D)	8.6 x 8.6 cm	White	999901706
32 mm Double Back Box (M12D)	8.6 x 14.6 cm	White	999901701

Modular Faceplates and Clips

Germany/Benelux Applications



M18930

The range of German/Benelux standard Information Outlets include the M18930 Surface Outlet, M18932 Flush mount Centerplate, M02714 Coverplate and M81 Dust covers.

The M18930 Outlet is a surface mounted duplex M-Series Modular Information Outlet designed for use with two M-Series high-density modules. The outlet openings have provision for label identification.

The M18932 Centerplate is a flush mounted Centerplate which is also designed to accept two M-Series HDM's. The M18932 mounts in a German/Benelux standard electrical box with centerplate mounting dimensions of 60 mm center to center and with a minimum depth of 32 mm. The outlet openings have provision for label identification.

The M02714 flush mount coverplate is used with the M18932 centerplate to provide a frame around the mounting screws of the centerplate.

The M81 are dust covers designed for use with the M18930 and M18932 faceplates. The M81 is used in empty jack openings which are not populated with high-density modules.



M12GER-FTP-262

The CommScope® M12GER-F/UTP 2-port modular furniture German Faceplate can accommodate all Foil Twisted Pair (F/UTP) modules for CommScope networking solutions. Unshielded Twisted Pair (U/UTP) and fiber modules may be deployed as well. The M12GER-F/UTP provides a grounding solution for F/UTP and its angle feature can provide a solution that will not cause kinking with the size of today's larger cables when looped in an electrical box while using conduit. Dust shutters offer protection for avoiding leaf spring contamination.

The M12GER-F/UTP faceplate accepts two high-density modules and is designed specifically for the German market. The faceplate can be mounted into a German standard electrical box and it features a provision for labeling above the port openings.

The M18932-246 and the M18932-262 accommodate the GigaSPEED X10D MFP520 information outlets.

The M30 Mounting Collar accepts a single module and is equipped with a grounding hook that provides a low-resistance grounding solution for F/UTP outlets. The M30 is designed specifically for the German market. The dimensions and structure of the mounting collar match many competitors faceplates as well as many custom applications. Its improved opening configuration provides a rotation option for U/UTP outlets.

Product Number	Detailed Description	H x W x D	Mounting	Color	Material ID
M02714-246	M18932-246 Coverplate	8.0 x 8.0 x 0.55 cm	Flush	Ivory	106720212
M18930-246	M18930-246 Duplex	8.0 x 6.5 x 3.5 cm	Surface	Ivory	760123877
M18932-246	M18932-246 Duplex	5.0 x 5.0 x 0.73 cm	Flush	Ivory	760123885
M02714-262	M18932-262 Coverplate	8.0 x 8.0 x 0.55 cm	Flush	White	107052359
M18930-262	M18930-262 Duplex	8.0 x 6.5 x 3.5 cm	Surface	White	760123901
M18932-262	M18932-262 Duplex	5.0 x 5.0 x 0.55 cm	Flush	White	107052326
M12GER-FTP-262	Faceplate, German 2-port (F/UTP)	8.1 x 8.1 x 2.41 cm	Surface	White	760085993
M81-246	M81-246 BLANK	1.8 x 1.3 cm		Ivory	106837222
M81-262	M81-262 BLANK	1.8 x 1.3 cm		White	106837230
M12 GER-FTP-003				Black	760100263
M12 GER-FTP-262				White	760101444

Single Port and Dual Port Faceplates
French Applications


Single Port Faceplate


Dual Port Faceplate


LF81

The French Single Port Faceplate accepts one high density module and the Dual Port accepts two high density module(s). The Single Port faceplate is equipped with a spring-loaded shutter to protect the HDM from dust. It is designed specifically for the French market and fits in the Legrand Mosaic faceplate. There is provision for port labeling.

The French Single and Dual Port Faceplates accommodate the GigaSPEED X10D MFP520 information outlets.

Detailed Description	H x W x D	Color	Material ID
French Single Port Shuttered Faceplate*	4.5 x 4.5 x 2.7 cm	White	760091090
French Dual Port Unshuttered Faceplate*	4.5 x 4.5 x 2.7 cm	White	760091082
LF81	2.5 x 5.0 cm	Black	999901670
LF81	2.5 x 5.0 cm	White	999901648
LF81	2.5 x 5.0 cm	Ivory	108230632
LF81 Module Blank	2.5 x 5.0 cm	Black	999901822
LF81 Module Blank	2.5 x 5.0 cm	White	999901805
LF81 Angled	2.5 x 5.0 cm	Black	999910013
LF81 Angled	2.5 x 5.0 cm	White	999901649

* 760060392 M2000 custom labels fit the provisions on all CommScope faceplates.

Modular Faceplates and Clips Scandinavian Applications


MFUGA

The MFUGA Scandinavian Faceplate is a dual flush mount faceplate which mounts in a FUGA box (or equivalent) and accepts two high-density modules. It consists of the cover and baseplate.

The MFUGAS Scandinavian Faceplate is a single flush mount faceplate which mounts in a FUGA box (or equivalent) and accepts one high-density module. It consists of the cover, baseplate and mounting plate.

The MTDL80 Universal Faceplate is a dual semi-surface mounted faceplate which can be surface or flush mounted on a standard electrical box (60 mm mounting) and also mounted on any type of electrical trunking. It accepts two high-density modules. It comes complete (without HDMs) and ready to mount.

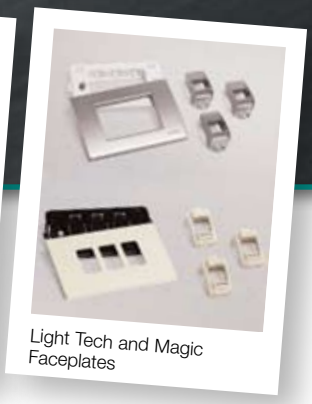
The M12D OPUS Faceplate is used in the OPUS, SENSIQ 66x66 and EPUS 66x66 switch and socket outlet system. It should be mounted together with mounting frames. It is suited for use in Denmark, East and North European markets.

The MCAN Faceplate is a dual flush mount faceplate which mounts on a CAN/Clickline electrical box (or equivalent) and accepts two high-density modules. The MCAN Kit consists of a faceplate and an adapter frame for mounting in a standard IEC (c/c 60 mm) electric box. The MCAN Adapter Frame provides secure and tidy mounting for the MCAN Faceplate in a standard IEC wall box (c/c 60 mm). The MFUGA-262 and MCAN-DL-262 accommodate the GigaSPEED X10D MFP520 information outlets.

Product Number	Detailed Description	H x W x D	Color	Material ID
MFUGA-262	Duplex	71 x 45 x 8.5 mm	White	106790140
MFUGAS-262	Simplex	45 x 45 x 8.5 mm	White	106969066
MCAN-DL-262	Duplex	85 x 85 x 8.8 mm	White	106790165
MTDL-8D-262	Duplex	80 x 80 x 36 mm	White	106790132
M12D-262 OPUS	Duplex	58 x 58 x 12 mm	White	107818320
MFUGA-290			Grey	106790157
M12D(42)			Grey	107822413

Modular Faceplates and Clips Italian Applications


Light and Living Faceplates


Light Tech and Magic Faceplates

The LF82IT and LF83IT Clips each accept one high-density module and are designed specifically for the Italian market. The LF82IT Clip is black in color while the LF83IT is ivory. The LF82IT and LF83IT Clips fit in a standard Italian faceplate which can be mounted onto an Italian standard electrical box with a minimum depth of 32 mm. There is a provision for port labeling.

The Living faceplate accommodates the GigaSPEED X10D MFP520 information outlets.

Product Number	H x W x D	Color	Material ID
Living	4.39 x 2.48 x 2.50 cm	Black	106961311
Magic	4.39 x 2.48 x 2.50 cm	Ivory	106961329
Light	4.39 x 2.48 x 2.50 cm	White	108086638
Living International	4.39 x 2.48 x 2.50 cm	Black	108086646
Light Tech Adapter	4.39 x 2.48 x 2.50 cm	Grey	999901820
MATIX Adapter	4.39 x 2.48 x 2.50 cm	White	999901821

Modular Faceplates
Swiss Applications


Novo Faceplate

The range of Swiss standard Information Outlets includes the four port Novo and Standard White Flushmount Outlets which mounts into Swiss electrical boxes. The Outlets are designed for use with four M-Series high-density modules. They come complete, ready to mount with two caps. The White FLF modular furniture duplex outlet faceplate holds up to two M-Series modular outlets or M81-Series mounting modules. The FLF Faceplate is designed to fit Steel or plastic modular furniture and raceways and is used in an opening size of 62x37mm. The FLF outlet is designed for higher density of outlets at the workplace.


FLF Faceplate

Detailed Description	Color	H x W x D	Material ID
Swiss Standard Faceplate	White	8.6 x 8.6 x 1.0 cm	760076984
Swiss FLF Faceplate	White	6.2 x 3.7 x 2.4 cm	760076992
Swiss Novo Faceplate	White	8.7 x 8.7 x 1.0 cm	760077008

Modular Faceplates and Clips Asia Pacific Applications

The range of Asia Pacific Information Outlets consists of the M10CF, M12CF and M14CF Faceplates. All faceplates are flush mounted. The M12 and M14 are available in unshuttered and shuttered versions.



Flush Mounted Faceplates

Product Number	Detailed Description	H x W	Material ID
M12CF-262	2-Port Faceplate Shuttered	3.4 x 3.4 in	760003038
M14CF/S-262	4-Port Faceplate Shuttered	3.4 x 3.4 in	760026203
M10CF-262	Single Port Faceplate	3.4 x 3.4 in	760011593
M14CF-262	4-Port Faceplate	3.4 x 3.4 in	760011916
M12CFNS-262	2-Port Faceplate	3.4 x 3.4 in	760031518

ENCLOSURES

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Enclosures



Vertical Management Doors

Through its Enclosure product line, CommScope® now provides the physical structure and protection essential to making an infrastructure solution secure and complete. Created with the same high standards of quality, performance and reliability as the physical layer solutions themselves, CommScope Enclosures now give customers a single source for all network infrastructure component needs.

CommScope Enclosures include cabinets and racks and cable management devices, all designed and built to aid installation, enhance network management and protect CommScope network infrastructure components. This infrastructure framework is created to work ideally with CommScope solutions offerings and helps further protect your network's performance and your investment.

Racks and Cable Management

While a necessity for managing, distributing and controlling structured cabling, all racks and cable management devices are not created equal. CommScope understands the potential negative impact on network performance and company productivity when installation and accessibility are challenging. CommScope designs its racks and cable management devices with the same level of detail and importance as its infrastructure solutions, ensuring that customers get the best product to protect and manage their investment.

Cabinets

CommScope's cabinets are the right cabinet to protect the right solution. Using patented X-Frame technology, CommScope cabinets are designed to be the right size, the right weight and have the right level of durability to support the entire line of CommScope solutions, including the industry-leading 10 Gbps solutions. X-Frame technology reduces installation time by providing a rigid framework for equipment installation, even when all of the doors and the side have been removed. The right cabinet means less physical impact on the network infrastructure and, ultimately, on the network's performance.

Racks

CommScope Racks are versatile open frames that combine many attributes of standard open frame racks, vertical raceways and cable routing panels into the convenience of a single unit. Designed for 19 in EIA rack-mount equipment, CommScope Racks are extra wide and deep for multi-position cable hangers, providing superior front and rear cable management for any application. The CommScope Rack offering includes a wide range of products, including 2-post racks, 4-post racks and wall mount racks.



Vertical and Horizontal Cable Management

Features and Benefits:

Equipment Racks

- Available in both 2-Post and 4-Post configurations
- Available Sizes:
  - Heights: 84 in, 96 in
  - Rail Widths: 3 in, 6 in, 12 in (2-Post)
  - Depth: 29 in, 36 in (4-Post)
- EIA-310-E compliant
- UL listed, Certification—Information Technology and Communications Equipment
- Load Capacity:
  - 1000 lb (2 and 4-Post Aluminum)
  - 2000 lb (4-Post Steel)
- IA Standard Pattern with 12-24 Tapped Holes (Aluminum Rail)
- EIA Standard Pattern with 3/8" Square Punches for Cage Nuts (Steel Rail)
- Material:
  - Al: 6061-T6 Aluminum Extrusion (3 in Rail)
  - Al: 6061-T6 0.125 in Thick, (6 in and 12 in Rail)
  - Steel: 14 Gauge (0.075 in Thick), CRS
- Finish: Durable black epoxy powder-coat
- Easily assembled, hardware included
- Packaged in one container, unassembled
  - (40) M6 mounting screws
  - (40) 12-24 mounting screws
  - (40) M6 cage nuts (steel rail only)

Wall Mount Racks

- Available in 12U, 20U and 25U heights
- Swinging door hinges from left or right side
- Cable lances in top and sides for cable ties and straps
- Load Capacity: 100 lb
- EIA-310-E compliant
- UL listed, Certification—Information Technology and Communications Equipment
- EIA Standard Pattern with 12-24 Tapped Holes
- Material:
  - Steel: 14 Gauge (0.075 in Thick), CRS
- Finish: Durable black epoxy powder-coat
- Easily mounts to wall surface
- Packaged in one container, unassembled
- Kit includes assembly hardware and cable ties
- Designed for use in telecommunications and equipment rooms

2-Post Racks, Aluminum Rails

Product Number	Detailed Description	Color	Material ID
RK3-45A	3 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), 12-24 Tapped Rails	Black	760082479
PK3-45AM	3 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), M6 Tapped Rails	Black	760092007*
RK3-52A	3 in Channel x 8 ft H - 19 in Aluminum Equipment Rack (52U), 12-24 Tapped Rails	Black	760082487
RK3-52AM	3 in Channel x 8 ft H - 19 in Aluminum Equipment Rack (52U), M6 Tapped Rails	Black	760092015*
RK6-45A	6 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), 12-24 Tapped Rails	Black	760082495
RK6-45AM	6 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), M6 Tapped Rails	Black	760092023*
RK6-52A	6 in Channel x 8 ft H - 19 in Aluminum Equipment Rack (52U), 12-24 Tapped Rails	Black	760082503
RK6-52AM	6 in Channel x 8 ft H - 19 in Aluminum Equipment Rack (52U), M6 Tapped Rails	Black	760092031*
RK12-45A	12 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), 12-24 Tapped Rails	Black	760082511
RK12-45AM	12 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (45U), M6 Tapped Rails	Black	760092049*
RK12-52A	12 in Channel x 7 ft H - 19 in Aluminum Equipment Rack (52U), 12-24 Tapped Rails	Black	760090100

* Available in Asia Pacific region only

Hardware Included

Quantity	Description
2	Vertical rack rails
2	Extruded base angles
2	Extruded base angles
12	Extruded base angles
12	Extruded base angles

Quantity	Description
12	3/8 split lock washers
40	M6 cage nuts
40	M6 cage nuts
1	Instruction sheet


3 Foot 2-Post Rack


3 in Channel x 7 ft H - 19 in Al Equipment Rack (45U) (RK3-45A)


6 in Channel x 7 ft H - 19 in Al Equipment Rack (45U) (RK6-45A)


2-Post Rack

2-Post Racks, Steel Rails

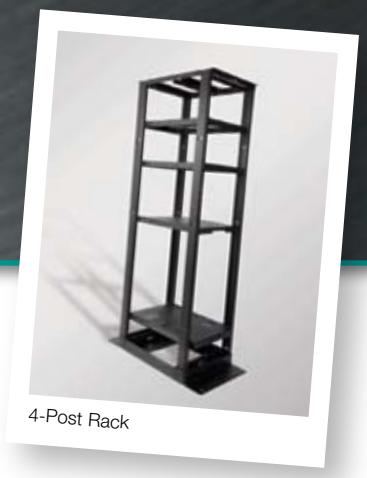
Product Number	Detailed Description	Color	Material ID
RK3-45S	3 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch	Black	760090118
RK3-52S	3 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch	Black	760090126
RK6-45S	6 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch	Black	760090134
RK6-52S	6 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch	Black	760090142
RK12-45S	12 in Channel x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch	Black	760090159
RK12-52S	12 in Channel x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch	Black	760090167
	3 Foot 2-Post Aluminum Rack	Black	760103010

* Available in Asia Pacific region only

Hardware Included

Quantity	Description
2	Vertical rack rails
2	Extruded base angles
2	Extruded top angles
12	3/8-16 UNC x 1 in hex head bolts
12	3/8-16 hex nuts

Quantity	Description
12	3/8-16 hex nuts
12	3/8 split lock washers
40	12-24 x 1/2 in mounting screws
1	Instruction sheet


4-Post Rack

4-Post Racks, Aluminum Rails

Product Number	Detailed Description	Color	Material ID
RK4P45-29A	29 in D x 7 ft H - 19 in Aluminum Equipment Rack (45U), 12-24 Tapped Rails	Black	760082529
RK4P52-29A	29 in D x 8 ft H - 19 in Aluminum Equipment Rack (52U), 12-24 Tapped Rails	Black	760082537
RK4P45-36A	36 in D x 7 ft H - 19 in Aluminum Equipment Rack (45U), 12-24 Tapped Rails	Black	760082560
RK4P52-36A	36 in D x 8 ft H - 19 in Aluminum Equipment Rack (52U), 12-24 Tapped Rails	Black	760082578

Hardware Included

Quantity	Description
40	Cage nuts (If square punched rails are requested)
40	Mounting screws
1	Instruction sheet

4-Post Racks, Steel Rails

Product Number	Detailed Description	Color	Material ID
RK4P45-29S	29 in D x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch	Black	760082545
RK4P52-29S	29 in D x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch	Black	760082552
RK4P45-36S	36 in D x 7 ft H - 19 in Steel Equipment Rack (45U), 3/8 Sq Punch	Black	760082586
RK4P52-36S	36 in D x 8 ft H - 19 in Steel Equipment Rack (52U), 3/8 Sq Punch	Black	760082594

Hardware Included

Quantity	Description
40	Cage nuts (If square punched rails are requested)
40	Mounting screws
1	Instruction sheet

Wall Mount Racks

Product Number	Detailed Description	Color	Material ID
RW12-18	12U x 18 in D Swinging 19 in Wall Rack	Black	760085498
RW20-18	20U x 18 in D Swinging 19 in Wall Rack	Black	760085506
RW25-18	25U x 18 in D Swinging 19 in Wall Rack	Black	760085514

Hardware Included

Quantity	Description
12	Mounting screws
1	Instruction sheet


Wall Mount Rack

2-Post Racks, Shelves

Product Number	Detailed Description	Color	Material ID
SL50SS	Cantilevered Shelf, Steel, Solid, 50 lb Capacity, 19 in Rack Mountable, 3.50 in PS, 2U, 19.00 in D	Black	760084178
SL375DS	Center Weight Shelf, Steel, Solid, 75 lb Capacity, 19 in Rack Mountable, 3.50 in PS, 2U,19.00 in D	Black	760084186
SL19-FKB	Keyboard Roll Out Tray, Tilt, No Pad, 19 in Rack Mountable	Black	760085456

Hardware Included

Quantity	Description
2	Vertical rack rails
2	Extruded base angles
2	Extruded base angles
12	Extruded base angles
12	Extruded base angles

Quantity	Description
12	3/8 split lock washers
40	M6 cage nuts
40	M6 cage nuts
1	Instruction sheet

4-Post Racks, Shelves

Product Number	Detailed Description	Color	Material ID
SL4P24-100VN	Low Profile Cabinet Shelf, Fixed, Vented, 100 lb Capacity, 19 in W x 24 in D, Fits 29 in D 4 - Post Racks	Black	760085423
SLR4P24-150VN	Low Profile Cabinet Shelf, Roll Out, Vented, 150 lb Capacity, 19 in W x 24 in D, Fits 29 in D 4 - Post Racks	Black	760085431
SL4P28-100VN	Low Profile Cabinet Shelf, Fixed, Vented, 100 lb Capacity, 19 in W x 28 in D, Fits 29 in D 4 - Post Racks	Black	760085480
SL4P28-400VN	Low Profile Cabinet Shelf, Fixed, Vented, 400 lb Capacity, 19 in W x 28 in D, Fits 29 in D 4 - Post Racks	Black	760085464
SLR4P28-150VN	Low Profile Cabinet Shelf, Roll Out, Vented, 150 lb Capacity, 19 in W x 28 in D, Fits 29 in D and 36 in D 4 - Post Racks	Black	760085415

Hardware Included

Quantity	Description
40	Mounting screws
40	Cage Nuts (if square punched rails are requested)
1	Instruction sheet


Filler Panels

Filler Panels

Product Number	Detailed Description	Color	Material ID
RKFP1U-B	1U 19 in Filler Panel	Black	760085712
RKFP2U-B	2U 19 in Filler Panel	Black	760085720
RKFP3U-B	3U 19 in Filler Panel	Black	760085738


Quick Release Blank Panel

Quick Release Blank Panels

Product Number	Detailed Description	Color	Material ID
QR-RKFP1U-B	1U x 19 in. Blank Panel, Quick Release	Black	760103473
QR-RKFP2U-B	2U x 19 in. Blank Panel, Quick Release	Black	760103481
QR-RKFP4U-B	4U x 19 in. Blank Panel, Quick Release	Black	760103499

Only compatible with CommScope steel rail racks



Cable Runway, Inside Radius Sections

Straight Cable Runway

Product Number	Detailed Description	Color	Material ID
CR-SLR-6L6W	Universal Cable Runway 6 ft L x 6 in W	Black	760085597
CR-SLR-6L12W	Universal Cable Runway 6 ft L x 12 in W	Black	760085605
CR-SLR-6L18W	Universal Cable Runway 6 ft L x 18 in W	Black	760085613
CR-SLR-6L24W	Universal Cable Runway 6 ft L x 24 in W	Black	760085621
CR-SLR-10L6W	Universal Cable Runway 10 ft L x 6 in W	Black	760085639
CR-SLR-10L12W	Universal Cable Runway 10 ft L x 12 in W	Black	760085647
CR-SLR-10L18W	Universal Cable Runway 10 ft L x 18 in W	Black	760085654
CR-SLR-10L24W	Universal Cable Runway 10 ft L x 24 in W	Black	760085662

Horizontal Bends

Product Number	Detailed Description	Color	Material ID
CR90FCB-6W	Cable Runway 90 Degree Radius Flat Corner Bend, 6 in W	Black	760085522
CR90FCB-12W	Cable Runway 90 Degree Radius Flat Corner Bend, 12 in W	Black	760085530
CR90FCB-18W	Cable Runway 90 Degree Radius Flat Corner Bend, 18 in W	Black	760085548
CR90FCB-24W	Cable Runway 90 Degree Radius Flat Corner Bend, 24 in W	Black	760085555

Vertical Bends

Product Number	Detailed Description	Color	Material ID
CR90ICB-6W	Cable Runway 90 Degree Inside Corner Bend, 6 in W	Black	760085670
CR90ICB-12W	Cable Runway 90 Degree Inside Corner Bend, 12 in W	Black	760085688
CR901FCB-18W	Cable Runway 90 Degree Inside Corner Bend, 18 in W	Black	760085696
CR901CB-24W	Cable Runway 90 Degree Inside Corner Bend, 24 in W	Black	760085704
CR90OCB-6W	Cable Runway 90 Degree Outside Corner Bend, 6 in W	Black	760086074
CR90OCB-12W	Cable Runway 90 Degree Outside Corner Bend, 12 in W	Black	760086082
CR90OFCB-18W	Cable Runway 90 Degree Outside Corner Bend, 18 in W	Black	760086090
CR90OCB-24W	Cable Runway 90 Degree Outside Corner Bend, 24 in W	Black	760086108


Cable Runway T-Junction Splice Kit (CRTJSK)


Cable Runway Variable Angle Ladder Splice (CRVALS)

Junction/Splice Kits

Product Number	Detailed Description	Color	Material ID
CRBSK	Cable Runway Butt Splice Kit	Black	760083899
CRTJSK	Cable Runway Junction Splice Kit	Black	760084046
CRVALS	Cable Runway Adjustable Butt Splice Kit	Black	760084129

Drop Kits

Product Number	Detailed Description	Color	Material ID
CRDK-6W	Cable Runway Rung Drop Out, 6 in W	Black	760083949
CRDK-12W	Cable Runway Rung Drop Out, 12 in W	Black	760083956
CRDK-18W	Cable Runway Rung Drop Out, 18 in W	Black	760083964
CRSMCRDK	Cable Runway Stringer Side Drop Out, Fits all Sizes	Black	760083931


Cable Runway Butt Splice Kit (CRBSK)


Universal Rack Support Kit (CRBK--RS)

Runway Support Kits

Product Number	Detailed Description	Color	Material ID
CRTWSBK-6W	Triangular Runway Wall Support Bracket Kit, 6 in W	Black	760084087
CRTWSBK-12W	Triangular Runway Wall Support Bracket Kit, 12 in W	Black	760084095
CRTWSBK-18W	Triangular Runway Wall Support Bracket Kit, 18 in W	Black	760084103
CRTWSBK-24W	Triangular Runway Wall Support Bracket Kit, 24 in W	Black	760084111
CRR2RRMK	Runway to Rack Mounting Plate, 19 in W, 5.375 in D	Black	760084053
CR6-12WRSK	Cable Runway Wall Angle Support Kit 6 in -12 in	Black	760084145
CR15-18WRSK	Cable Runway Wall Angle Support Kit 15 in -18 in	Black	760084152
CR12-24WRSK	Cable Runway Wall Angle Support Kit 12 in -18 in	Black	760084160
CRCMK3-8TR	Cable Runway Ceiling Mounting Kit (For 3/8 in Threaded Rod)	Black	760083907
CRCMK5-8TR	Cable Runway Ceiling Mounting Kit (For 5/8 in Threaded Rod)	Black	760083915
CRSBK5-8TR	Cable Runway Support Bracket Kit (For 5/8 in Threaded Rod)	Black	760083923
CRBK-RS	Universal Rack Support Kit, (For 5/8 in Threaded Rod)	Black	760084004
CRTR625-6L	Cable Runway, 5/8-11 -2A Threaded Rod 6 ft L	Clear Zinc	760084061
CRTR360-6L	Cable Runway, 3/8-16 -2A Threaded Rod 6 ft L	Clear Zinc	760084079
CRFK	Cable Runway Foot Kit	Black	760084020
CRVWBK	Cable Runway Vertical Wall Bracket Kit (2 Brackets)	Black	760084137
CRJBMK	Cable Runway J-Bolts (2 J-Bolts)	Black	760084038


Cable Runway Vertical Wall Bracket Kit (CRVWBK)


Cable Runway 6 in-12 in Wall Rail Support Kit (CR6-12WRSK)


Cable Runway J-Bolt Mounting Kit (CRJBMK)


Cable Runway Foot Kit (CRFK)


Cable Runway To Relay Rack Mounting Kit (CRR2RRMK)


Cable Runway, 5/8-11 UNC-2A Threaded Rod 6 ft L (CRTR625-6L)


Cable Retaining Post, 8 in (CRRP-8H)

Cable Runway Accessories

Product Number	Detailed Description	Color	Material ID
CRRP-6H	Cable Runway, Cable Retaining Post, 6 in H (1 Each)	Black	760083972
CRRP-8H	Cable Runway, Cable Retaining Post, 8 in H (1 Each)	Black	760083980
CRRP-10H	Cable Runway, Cable Retaining Post, 10 in H (1 Each)	Black	760083998
CRPECK	Cable Runway Protective End Cap Kit (2 Caps)	Black	760084012


Cable Runway Protective End Cap Kit (2 Caps) (CRPECK)


Cable Runway Ceiling Mounting Kit (For 3/8 in Threaded Rod) (CRCMK3-8TR)


Cable Runway Stringer Side Drop Out (CRSMCRDK)


Triangular Runway Wall Support Bracket Kit, 18 in W (CRTWSBK-18W)


Cable Runway Ceiling Mounting Kit (For 5/8 in Threaded Rod) (CRCMK5-8TR)

Cable Management


Double Sided Vertical Cable Management

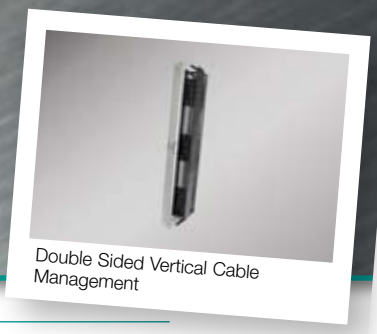
Features and Benefits:

Horizontal Cable Management

- Available for 19-inch rail spacing in three heights —1U, 2U and 3U
- Black with diamond cut CommScope Logo in emboss
- Horizontal cover – Hinges up or down and locks into position in each orientation
- Cylindrical finger ends for easy snap on installation of horizontal cover
- Open back on 2U and 3U horizontal troughs for easy pass through of cables

Vertical Cable Management

- Lightweight, but sturdy door, available in 8 sizes
- Elegantly styled and plated door handles
- Dual hinge latching door can be opened right or left
- Door automatically latches as door is closed or snapped into hinge bracket
- Front and rear doors are standard on double-sided troughs
- Patent pending door latching mechanism
- C- Channel hinge bracket allows free and open access to the entire length of the trough
- One-point ergonomic door install/removal system
- Vertical trough used to bay multiple racks together
- Available in four widths and two heights
- Widths: 6 in, 8 in, 10 in and 12 in
- Heights: 84 in, 96 in
- Single and doublesided troughs available
- Flexible X-Style cable fingers allow cables easily in or out for quick cable routing
- Cable fingers are spaced at 1RMU increments for exact alignment with EIA standard rack spacing
- Optimally contoured cable fingers separate, organize and maintain patch cords in desired position
- Cable finger radius protects cables during installation and use
- Cable fingers provide effortless solution transitioning cables from vertical to horizontal planes
- Cable fingers support up to 48 cables per RMU
- Cable fill capacity up to 1600 cables at maximum fill or 673 cables at 40% fill (Class EA, Category 6A)
- Opentrough back reduces weight and allows cable or cords to transition easily from front to rear of trough
- Snaps easily (no tools or fasteners required) onto trough and provides cable and fiber slack management


Double Sided Vertical Cable Management


Single Sided Vertical Cable Management

Vertical Cable Management, Double Sided

Product Number	Detailed Description	Door Color	Material ID
VCM-DS-84-6	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Double Sided, With Doors	Silver	760072785
VCM-DS-84-6B	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Double Sided, With Doors	Black	760089342
VCM-DS-84-8	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Double Sided, With Doors	Silver	760072793
VCM-DS-84-8B	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Double Sided, With Doors	Black	760089359
VCM-DS-84-10	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Double Sided, With Doors	Silver	760072801
VCM-DS-84-10B	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Double Sided, With Doors	Black	760089367
VCM-DS-84-12	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Double Sided, With Doors	Silver	760072819
VCM-DS-84-12B	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Double Sided, With Doors	Black	760089375
VCM-DS-96-6	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Double Sided, With Doors	Silver	760072827
VCM-DS-96-6B	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Double Sided, With Doors	Black	760089383
VCM-DS-96-8	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Double Sided, With Doors	Silver	760072835
VCM-DS-96-8B	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Double Sided, With Doors	Black	760089391
VCM-DS-96-10	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Double Sided, With Doors	Silver	760072843
VCM-DS-96-10B	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Double Sided, With Doors	Black	760089409
VCM-DS-96-12	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Double Sided, With Doors	Silver	760072850
VCM-DS-96-12B	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Double Sided, With Doors	Black	760089417

Hardware Included

Quantity	Description
1	Trough assembly
2	Door assembly
2	Spools
4	1/2-20 x 1.0 in hex head bolt
4	1/2-20 hex nut
4	Flat washer
1	Instruction sheet

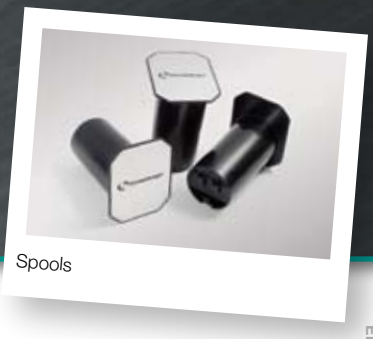
Vertical Cable Management, Single Sided

Product Number	Detailed Description	Door Color	Material ID
VCM-SS-84-6	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Single Sided, With Door	Silver	760072868
VCM-SS-84-6B	VCM Kit, 6 in x 84 in (15.24 cm x 213.4 cm), Single Sided, With Door	Black	760089425
VCM-SS-84-8	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Single Sided, With Door	Silver	760072876
VCM-SS-84-8B	VCM Kit, 8 in x 84 in (20.3 cm x 213.4 cm), Single Sided, With Door	Black	760089433
VCM-SS-84-10	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Single Sided, With Door	Silver	760072884
VCM-SS-84-10B	VCM Kit, 10 in x 84 in (25.4 cm x 213.4 cm), Single Sided, With Door	Black	760089441
VCM-SS-84-12	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Single Sided, With Door	Silver	760072892
VCM-SS-84-12B	VCM Kit, 12 in x 84 in (30.5 cm x 213.4 cm), Single Sided, With Door	Black	760089458
VCM-SS-96-6	VCM Kit, 6 in x 96 in (15.24 cm x 243 .84 cm), Single Sided, With Door	Silver	760072900
VCM-SS-96-6B	VCM Kit, 6 in x 96 in (15.24 cm x 243.84 cm), Single Sided, With Door	Black	760089466
VCM-SS-96-8	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Single Sided, With Door	Silver	760072918
VCM-SS-96-8B	VCM Kit, 8 in x 96 in (20.3 cm x 243.84 cm), Single Sided, With Door	Black	760089474
VCM-SS-96-10	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Single Sided, With Door	Silver	760072926
VCM-SS-96-10B	VCM Kit, 10 in x 96 in (25.4 cm x 243.84 cm), Single Sided, With Door	Black	760089482
VCM-SS-96-12	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Single Sided, With Door	Silver	760072934
VCM-SS-96-12B	VCM Kit, 12 in x 96 in (30.5 cm x 243.84 cm), Single Sided, With Door	Black	760089490
CABLE-MGT-SP	Cable Management Spool		760073007

Hardware Included

Quantity	Description
1	Trough assembly
2	Door assembly
2	Spools
4	1/2-20 x 1.0 in hex head bolt
4	1/2-20 hex nut
4	Flat washer
1	Instruction sheet


Horizontal Cable Management


Spools

Horizontal Cable Management

Product Number	Detailed Description	Material ID
HTK-19-SS-1U	1 RU 19 in (48.3 cm) SS Horizontal Trough Kit	760072942
HTK-19-SS-2U	2 RU 19 in (48.3 cm) SS Horizontal Trough Kit	760072959
HTK-19-SS-3U	3 RU 19 in (48.3 cm) SS Horizontal Trough Kit	760072967
HTK-19-DS-1U	1 RU 19” Double Sided Horizontal Trough Kit	760128843
HTK-19-DS-2U	2 RU 19” Double Sided Horizontal Trough Kit	760128850
HTK-19-DS-3U	3 RU 19” Double Sided Horizontal Trough Kit	760128868


HTK-19-DS-1U


HTK-19-DS-2U


HTK-19-DS-3U

1100D Patch Cord Organizer and 1100C Wall Adapter

The 1100D Cord Organizers are used for routing patch cords in 19 inch frames and wall adapters. The 1100D2 is the interbay patch cord organizer which is used for bulk routing cords between bays. The 1100D1 is the intrabay patch cord organizer which provides horizontal and vertical pathways. The 110D3 is used for routing cords on the front and cable on the rear.

The 1100C wall adapters are used to mount panels on any flat surface. Hinges provide easy access to the rear of the panel without removing the unit. The adapters can be mounted so that it hinges from the right or left side. The snap-lock pin holds the panel in place once the unit is installed.


Top to Bottom: 1100D1-35-19 (2U), 1100D2-35-19 (2U), 1100D3-35-19 (1U)


1100C1-70-19

Physical Specifications:

Height: 3.5 in (8.89 cm) for 1100D1-35-19, 1100D2-35-19, 1100C1-35-19
1.725 in (4.38 cm) for 1100D3-35-19
7 in (17.78 cm) for 1100C1-70-19
Width: 19 in (48.3 cm)
Depth: 4.5 in (11.43 cm) for 1100D1-35-19
3.75 in (9.53 cm) for 1100D2-35-19
4.6 in (11.7 cm) for 1100D3-35-19
5 in (12.7 cm) for 1100C1-35-19, 1100C1-70-19

Product Number	Detailed Description	Material ID
1100C1-35-19	Wall Adapter	106830573
1100C1-70-19	Wall Adapter	106830581
1100D1-35-19	Intrabay Patch Cord Organizer	106830615
1100D2-35-19	Intrabay Patch Cord Organizer	106830623
1100D3-35-19	Interbay Patch Cord and Cable Organizer	107132664

Cable Management Capacity Chart

Maximum VCM Fill

VCM Size	Cat. 5E	Cat. 5E Shielded	Cat. 6	Cat. 6 Shielded	10G Xpress	Cat. 6A	Cat. 6A Shielded
Diam. (in)	0.205	0.242	0.233	0.275	0.265	0.285	0.296
6	321	231	249	179	192	166	154
8	527	378	408	293	316	273	253
10	733	526	568	408	439	379	352
12	939	674	727	522	562	714	451

Recommended VCM Fill

VCM Size	Cat. 5E	Cat. 5E Shielded	Cat. 6	Cat. 6 Shielded	10G Xpress	Cat. 6A	Cat. 6A Shielded
Diam. (in)	0.205	0.242	0.233	0.275	0.265	0.285	0.296
6	241	173	187	134	144	125	116
8	396	284	306	220	237	205	190
10	550	395	426	306	329	285	264
12	705	506	545	392	422	365	338

Maximum HCM Fill

VCM Size	Cat. 5E	Cat. 5E Shielded	Cat. 6	Cat. 6 Shielded	10G Xpress	Cat. 6A	Cat. 6A Shielded
Diam. (in)	0.205	0.242	0.233	0.275	0.265	0.285	0.296
1U	55	39	42	30	33	28	26
2U	143	103	111	80	86	74	69
3U	232	166	179	129	139	120	111

Recommended HCM Fill

VCM Size	Cat. 5E	Cat. 5E Shielded	Cat. 6	Cat. 6 Shielded	10G Xpress	Cat. 6A	Cat. 6A Shielded
Diam. (in)	0.205	0.242	0.233	0.275	0.265	0.285	0.296
1U	41	29	32	23	24	21	20
2U	108	77	83	60	64	56	52
3U	174	125	135	97	104	90	83

Power Strips


Power Strip Plugs

CommScope Power Strips provide safe, cost-effective solutions for power distribution that runs to racks and cabinets.

Vertical power strips feature twenty receptacles, enabling dense equipment installs without the waste of valuable rack space.

Horizontal power strips are compact 1U rack-mountable units, designed for installation in either 1-in-relay or Standard EIA Rack configuration.

All CommScope power strips come equipped with convenient snap-in clips or reversible mounting ears, ensuring that both installation and move management are simple and quick. CommScope power strips are UL and c-UL listed 60950.

Features and Benefits:

Vertical Power Strips

- Vertical Mount: 66 in
- Available in 125 and 250 Volts
- Available in 15 or 20 Amp strips
- Standard or twist-lock style NEMA plugs
- NEMA 5-15R or IEC-320/C-13 receptacle
- Offers current surge protection and circuit breakers
- Includes brackets designed to specifically fit in CommScope racks and cabinets
- Easy access rack-mounting brackets provide flexibility in vertical placement of power strips

Horizontal Power Strips

- Horizontal Mount: 17 in (19 in rack)
- Available in 125 and 250 Volts
- Available in 15 or 20 Amp strips
- Standard or twist-lock style NEMA plugs
- NEMA 5-15R, 5-20R or IEC-320/C-13 receptacle
- Provides easy access for installation and removal in CommScope racks and cabinets
- Reversible mounting ears allow the unit to be mounted flush to a wall, offering a compact vertical mount solution if desired

Electrical Specifications:

AC Rating Amps: 15 or 20 Amps
VA Per Input: Vertical - 1875W (15*125V)/2500W (20*125V)/5000W (20*250V),
Horizontal -1875W (15*125V)/2500W (20*125V)/5000W (20*250V)
AC Rating Volts: 125 and 250 Volts
AC Rating Frequency: 50/60 Hz
Over Current Protection: 15 or 20 Amp Thermal Breaker (not available on all configurations)
Power Switch: None
Surge Protection: Available
Power Cable Wire Gauge: 14/3 (15A) 12/3 (20A)
Power Cord Length: 10 ft, IEC320 Units Have C-20 Power Inlet (cord not included)
Plug Type: NEMA 5-15R, NEMA 5-20R and C-13
Plug Style: Individual In-Line or Grouped (C-13)
No. of Receptacles On Face: 20 - Vertical Mount, 8 - Horizontal Mount, 10 - Horizontal IEC320
Maximum Output Per Receptacle Socket: 15A or 20A

Physical Specifications:

UL and cUL Listed 60950

Standards:

Housing Configuration: Heavy Steel – Black Powder Coated
Chassis Dimensions (HxWxD): Vertical -1.61 in x 1.61 in x 66 in
Horizontal -1.61 in x 1.61 in x 17 in or 1.61 in x 1.72 in x 17 in
Unit Weight: Vertical -12 lbs, Horizontal - 6 lbs

Available Plug Configurations

Amp	Volt	NEMA Straight-Blade Plug	NEMA Straight-Blade Outlet
15	125	5-15P 	5-15R 
20	125	5-20P 	5-20R 
Amp	**Volt**	**Twist-Lock Plug**	**Twist-Lock Outlet**
15	125	L5-15P 	L5-15R 
20	125	L5-20P 	L5-20R 
Amp	**Volt**	**IEC Power Inlet**	**IEC Power Outlet**
20/16*	125 or 250	C-19 	C-13 

*Rating for CE Products

Single Input Vertical Power Strips

NEMA Plug, NEMA Outlets, 125 Volt, 15 Amp with 20 NEMA 5-15R Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSV5-15SP-CBSP	Standard	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083600
PSV5-15SP-CBTP	Twist Lock	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083618
PSV5-15NP-CBSP	Standard	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083626
PSV5-15NP-CBTP	Twist Lock	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083634
PSV5-15NP-NBSP	Standard	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg	760083642
PSV5-15NP-NBTP	Twist Lock	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg	760083659

NEMA Plug, NEMA Outlets, 125 Volt, 20 Amp with 20 NEMA 5-15R Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSV5-20SP-CBSP	Standard	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083667
PSV5-20SP-CBTP	Twist Lock	Yes	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083675
PSV5-20NP-CBSP	Standard	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083683
PSV5-20NP-CBTP	Twist Lock	No	Yes	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083691
PSV5-20NP-NBSP	Standard	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg	760083709
PSV5-20NP-NBTP	Twist Lock	No	No	1.2 in x 66 in x 1.3 in (29 mm x 1680 mm x 32 mm)	12 lbs/5.45 kg	760083717



Single Input Vertical Power Strip NEMA Plug - NEMA Outlets 125 Volt, 15 Amp (PSV5-15SP-CBSP)



Single Input Vertical Power Strip NEMA Plug - NEMA Outlets 125 Volt, 20 Amp (PSV5-20NP-NBSP)

IEC Plug, IEC Outlets, 125/250 Volt, 20 Amp with 20 IEC320 TYPE C-13 Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSV10-20NBC13	IEC320 Type C-20	No	No	1.6 in x 66 in x 1.6 in (41 mm x 1680 mm x 41 mm)	12 lbs/5.45 kg	760083733



Single Input Vertical Power Strip IEC Inlet - IEC Outlet (PSV10-20 NBC13)



Single Input Vertical Power Strip IEC Inlet - IEC Outlet (PSV10-20 NBC13)

Single Input Horizontal Power Strips

NEMA Plug, NEMA Outlets, 125 Volt, 15 Amp, 1 RMU with 8 NEMA 5-15R Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSH5-15SP-CBSP	Standard	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083758
PSH5-15SP-CBTP	Twist Lock	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083766
PSH5-15NP-CBSP	Standard	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083774
PSH5-15NP-CBTP	Twist Lock	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083782
PSH5-15NP-NBSP	Standard	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083790
PSH5-15NP-NBTP	Twist Lock	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083808

NEMA Plug, NEMA Outlets, 125 Volt, 20 Amp, 1 RMU with 8 NEMA 5-20R Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSH5-20SP-CBSP	Standard	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083816
PSH5-20SP-CBTP	Twist Lock	Yes	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083824
PSH5-20NP-CBSP	Standard	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083832
PSH5-20NP-CBTP	Twist Lock	No	Yes	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083840
PSH5-20NP-NBSP	Standard	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083857
PSH5-20NP-NBTP	Twist Lock	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083865

IEC Plug, IEC Outlets, 125/250 Volt, 20 Amp, 1 RMU with 8 IEC320 Type C-13 Outlets

Product Number	Inlet Plug Type	Surge Protector	Circuit Breaker	Dimensions	Shipping Weight	Material ID
PSH10-20NBC13	IEC320 Type C-20	No	No	19 in x 1 RMU x 1.6 in (41 mm)	6 lbs/2.73 kg	760083881



Single Input Horizontal Power Strip NEMA Plug - NEMA Outlets 125 Volt, 20 Amp (PSH5-20SP-CBSP)

Mounting Accessories

Product Number	Detailed Description	Dimensions	Shipping Weight	Material ID
PSV-RKMTBK	Offset Rack-Mount Bracket Kit	8.4 in x 1.9 in x 1.9 in (213 mm x 48 mm x 48 mm)	3 lbs/1.36 kg	760083741
PSV-CBMTBK	L-Bracket Cabinet-Mount Kit	7.0 in x 1.4 in x 1.5 in (178 mm x 36 mm x 38 mm)	3 lbs/1.36 kg	760095091*

*Required for 600 Deep and 800 Deep Cabinets


Installed L-Bracket Cabinet-Mount Kit (PSV-CBMTBK)


Offset Rack-Mount Bracket Kit (PSV-RKMTBK)


L-Bracket Cabinet-Mount Kit (PSV-CBMTBK)

Wall Mount Cabinets


Light Duty Wall Mount Cabinet

Light and Heavy Duty Wall Mount Cabinets are available in 24-inch, 36-inch and 48-inch heights and feature standard EIA-310-E compliant mounting in a 24-inch deep enclosure for extended length equipment. The rear subpanel provides both 1-inch and 3-inch knockouts located at the top and bottom for easy wiring, installation and maintenance. The Wall Mount Cabinets can be purchased with solid or vented top and sides or with pre-mounted 120V, 110 CFM fans. Doors can be purchased with solid steel or tinted Plexi-glass for equipment visibility. Front and rear sections lock independently for added security.

Features and Benefits:

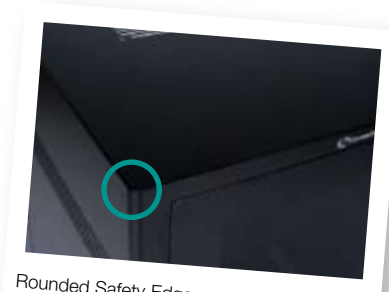
- Available in 24 in. (12RU), 36 in. (19RU), and 48 in. (26RU) heights
- Swing out feature facilitates front and rear access for quick changes and maintenance
- EIA-310-E Compliant
- Pre-mounted 12-24 Tapped Adjustable Rails, 19" EIA-310E Compliant
- Supplied with (20) 12-24 Equipment Mounting Screws.
- 4" rear sub-panel w/top & bottom cable access knock-outs
- Rear subpanel features cable knock-outs with top and bottom access
- Flush side panels: solid or vented
- Flush top Panels: solid, vented or pre-mounted with fans
- Locking front and rear compartments, keyed alike.
- Optional Pre-mounted Fans for Thermal Control.
- Cabinets ship fully assembled
- Material: Steel
  - Equipment Rails: 12 Gauge (.105 Thick), CRS
  - Subpanel: 14 Gauge (0.075 Thick), CRS
  - Cab Center Section: 16 Gauge (0.060 Thick), CRS
- Finish: Durable Epoxy Powder Coat Finish
- Designed for use in telecommunications and equipment rooms
- Removable and reversible door (Light Duty Series) with quick release pin and key lock

Light Duty Series

- Robust Fully Welded Steel Construction: 125 lb weight capacity
- Rounded Safety Edge-minimizes risk of exposure to sharp edges

Heavy Duty Series

- Robust Fully Welded Steel Construction: 300 lbs weight capacity
- Rugged 1" Tubular Steel Frame and HD Bullet enhances structural integrity
- Rear subpanel is removable for easy installation


Rounded Safety Edge

Light Duty Wall Mount Cabinets

Product Number	Detailed Description	H x W x D (cm)	Door	Sides	Top/Btm	Wt lbs/kg	Material ID
CW26-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Vent	Vent	75/34.0	760095729
CW26-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Vent	2 Fan	75/34.0	760095737
CW26-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Plex	Solid	Solid	75/34.0	760095745
CW26-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Vent	Vent	75/34.0	760095752
CW26-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Vent	2 Fan	75/34.0	760095760
CW26-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 23 x 24 (121.9 x 58.4 x 60.9)	Solid	Solid	Solid	75/34.0	760095778
CW19-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Vent	Vent	65/29.5	760095786
CW19-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Vent	2 Fan	65/29.5	760095794
CW19-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Plex	Solid	Solid	65/29.5	760095802
CW19-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Vent	Vent	65/29.5	760095810
CW19-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Vent	2 Fan	65/29.5	760095828
CW19-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 23 x 24 (91.4 x 58.4 x 60.9)	Solid	Solid	Solid	65/29.5	760095836
CW12-PVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Vent	Vent	55/24.9	760095844
CW12-PVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Vent	2 Fan	55/24.9	760095851
CW12-PSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Plex	Solid	Solid	55/24.9	760095869
CW12-SVV-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Vent	Vent	55/24.9	760095877
CW12-SVF-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Vent	2 Fan	55/24.9	760095885
CW12-SSS-24	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 23 x 24 (60.9 x 58.4 x 60.9)	Solid	Solid	Solid	55/24.9	760095893

Heavy Duty Wall Mount Cabinets

Product Number	Detailed Description	H x W x D (cm)	Door	Sides	Top/Btm	Wt lbs/kg	Material ID
CW26-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Vent	Vent	95/43.1	760095901
CW26-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Vent	2 Fan	95/43.1	760095919
CW26-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Plex	Solid	Solid	95/43.1	760095927
CW26-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Vent	Vent	95/43.1	760095935
CW26-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Vent	2 Fan	95/43.1	760095943
CW26-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 48 in (48.3 x 121.9)	48 x 22 x 24 (121.9 x 55.9 x 60.9)	Solid	Solid	Solid	95/43.1	760095950
CW19-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Vent	Vent	85/38.6	760095968
CW19-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Vent	2 Fan	85/38.6	760095976
CW19-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Plex	Solid	Solid	85/38.6	760095984
CW19-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Vent	Vent	85/38.6	760095992
CW19-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Vent	2 Fan	85/38.6	760096008
CW19-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 36 in (48.3 x 91.4)	36 x 22 x 24 (91.4 x 55.9 x 60.9)	Solid	Solid	Solid	85/38.6	760096016
CW12-PVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Vent	Vent	75/34.0	760096024
CW12-PVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Vent	2 Fan	75/34.0	760096032
CW12-PSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Plex	Solid	Solid	75/34.0	760096040
CW12-SVV-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Vent	Vent	75/34.0	760096057
CW12-SVF-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Vent	2 Fan	75/34.0	760096065
CW12-SSS-24HD	Wall Mount Cabinet 19 in (Rack Mt) x 24 in (48.3 x 60.9)	24 x 22 x 24 (60.9 x 55.9 x 60.9)	Solid	Solid	Solid	75/34.0	760096073

Wall Mount Cabinet Accessories

Catalog Number	Detailed Description	Wt lbs/kg	Material ID
CWFK1-120	Fan Kit, 1 Fan, 120VAC	3/1.3	760096081
CWFK2-120	Fan Kit, 2 Fans, 120VAC	6/2.7	760096099
CWLNFK1-120	Low Noise Fan Kit, 1 Fan, 120VAC	3/1.3	760096107
CWLNFK2-120	Low Noise Fan Kit, 2 Fans, 120VAC	6/2.7	760096115
CWFK2-220	Fan Kit, 2 Fans, 220VAC	6/2.7	760096123
CWFK2-48	Fan Kit, 2 Fans, 48VAC	6/2.7	760096131
CWFF	NEMA Fan Filter, 1 pc	1/0.4	760096149
CWTFC	Electronic Thermostat Fan Control	2/0.9	760096156
CWVRK-24	Wall Mount Cabinet, Equipment Vertical Rail Kit, 24”	6/2.7	760100214
CWVRK-36	Wall Mount Cabinet, Equipment Vertical Rail Kit, 36”	7/3.1	760100222
CWVRK-48	Wall Mount Cabinet, Equipment Vertical Rail Kit, 48”	8/3.6	760100230

Server Cabinets


Cabinet with Vented Door

CommScope Server Cabinets are multi-practice 19 in and/or ETSI enclosures ideal to house and protect computer servers and other mission-critical active equipment. Superior design features provide three point cable entry and easy cable access, even when two cabinets are bayed together. Easy-to-remove cladding means less labor while still ensuring security with internally lockable side panels and locking door latches that produce a 360 degree secure enclosure. Inter-cabinet patching is made possible by internal uprights set back into the cabinet.

X-Frame technology reduces installation time and provides instant access for cable installation. Cable can be pulled into position first, before the cabinet is located and fixed onto tiles, creating maximum “elbow room” to work and draw cable into place. Fully moveable 19 in mountable uprights (front and rear) allow for maximum flexibility.

Door ventilation design, with a 61.25% open area, supports hot and cold corridor air flow for superior thermal management.

CommScope Cabinets’ physical strength, thermal and security management solutions, combined with its depth options, make it an ideal enclosure for even the largest servers.

Features and Benefits:

- Supplied fully assembled
- 1000 kg/2200 lb capacity
- Patented X-Frame technology offers easy cable and equipment installation
- Accommodates all major servers on the market
- Cable management space is superior for 10 Gbps cable
- Future-proofed—can accommodate 19 in and ETSI equipment
- Unique door vent pattern provides excellent thermal management—61.25% open area
- Graded security to highest levels
- Application specific accessories
- Server cabinets come standard with RU markings
- 2 width options - 600 mm and 800 mm
- 2 depth options - 800 mm and 1000 mm
- 4 door options - glass, vented, solid and split doors

Standards:

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimensions)
EN 60950
VDE 0100

Server Cabinet Builds with Glass Vented Front Doors and Double Vented Rear Doors

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 42U 6X8 GVF DVR WS	Server Cabinet 42U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760078089
SC 42U 6X8 GVF DVR WoS	Server Cabinet 42U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760078097
SC 42U 6X10 GVF DVR WS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760078105
SC 42U 6X10 GVF DVR WoS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760078113
SC 42U 8X8 GVF DVR WS	Server Cabinet 42U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760078121
SC 42U 8X8 GVF DVR WoS	Server Cabinet 42U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760078139
SC 42U 8X10 GVF DVR WS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760078147
SC 42U 8X10 GVF DVR WoS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760078154
SC 45U 6X8 GVF DVR WS	Server Cabinet 45U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760099630
SC 45U 6X8 GVF DVR WoS	Server Cabinet 45U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760099648
SC 45U 6X10 GVF DVR WS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760099655
SC 45U 6X10 GVF DVR WoS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760099663
SC 45U 8X8 GVF DVR WS	Server Cabinet 45U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760099671
SC 45U 8X8 GVF DVR WoS	Server Cabinet 45U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760099689
SC 45U 8X10 GVF DVR WS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760099697
SC 45U 8X10 GVF DVR WoS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760099705

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 47U 6X8 GVF DVR WS	Server Cabinet 47U 600 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760093856
SC 47U 6X8 GVF DVR WoS	Server Cabinet 47U 600 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760093864
SC 47U 6X10 GVF DVR WS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760093872
SC 47U 6X10 GVF DVR WoS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760093880
SC 47U 8X8 GVF DVR WS	Server Cabinet 47U 800 x 800, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760093898
SC 47U 8X8 GVF DVR WoS	Server Cabinet 47U 800 x 800, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760093906
SC 47U 8X10 GVF DVR WS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Double Vented Rear	Glass, Vented	Steel, Vented Double	760093914
SC 47U 8X10 GVF DVR WoS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Double Vented Rear, Additional Bay	Glass, Vented	Steel, Vented Double	760093922

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts

Server Cabinet Builds with Glass Vented Front Doors and Single Vented Rear Doors

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 42U 6X8 GVF SVR WS	Server Cabinet 42U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760077925
SC 42U 6X8 GVF SVR WoS	Server Cabinet 42U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760077933
SC 42U 6X10 GVF SVR WS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760077941
SC 42U 6X10 GVF SVR WoS	Server Cabinet 42U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760077958
SC 42U 8X8 GVF SVR WS	Server Cabinet 42U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760077966
SC 42U 8X8 GVF SVR WoS	Server Cabinet 42U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760077974
SC 42U 8X10 GVF SVR WS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760077982
SC 42U 8X10 GVF SVR WoS	Server Cabinet 42U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760077990
SC 45U 6X8 GVF SVR WS	Server Cabinet 45U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760099796
SC 45U 6X8 GVF SVR WoS	Server Cabinet 45U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760099804
SC 45U 6X10 GVF SVR WS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760099812
SC 45U 6X10 GVF SVR WoS	Server Cabinet 45U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760099820
SC 45U 8X8 GVF SVR WS	Server Cabinet 45U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760099838
SC 45U 8X8 GVF SVR WoS	Server Cabinet 45U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760099846
SC 45U 8X10 GVF SVR WS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760099853
SC 45U 8X10 GVF SVR WoS	Server Cabinet 45U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760099861

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 47U 6X8 GVF SVR WS	Server Cabinet 47U 600 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760093690
SC 47U 6X8 GVF SVR WoS	Server Cabinet 47U 600 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760093708
SC 47U 6X10 GVF SVR WS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760093716
SC 47U 6X10 GVF SVR WoS	Server Cabinet 47U 600 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760093724
SC 47U 8X8 GVF SVR WS	Server Cabinet 47U 800 x 800, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760093732
SC 47U 8X8 GVF SVR WoS	Server Cabinet 47U 800 x 800, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760093740
SC 47U 8X10 GVF SVR WS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Single Vented Rear	Glass, Vented	Steel, Vented	760093757
SC 47U 8X10 GVF SVR WoS	Server Cabinet 47U 800 x 1000, Vented Glass Front, Single Vented Rear, Additional Bay	Glass, Vented	Steel, Vented	760093765

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)


Cabinet with Vented Door

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts

Server Cabinet Builds with Steel Vented Front Doors and Double Vented Rear Doors

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 42U 6X8 SVF DVR WS	Server Cabinet 42U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760078162
SC 42U 6X8 SVF DVR WoS	Server Cabinet 42U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760078170
SC 42U 6X10 SVF DVR WS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760078188
SC 42U 6X10 SVF DVR WoS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760078196
SC 42U 8X8 SVF DVR WS	Server Cabinet 42U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760078204
SC 42U 8X8 SVF DVR WoS	Server Cabinet 42U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760078212
SC 42U 8X10 SVF DVR WS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760078220
SC 42U 8X10 SVF DVR WoS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760078238
SC 45U 6X8 SVF DVR WS	Server Cabinet 45U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760099713
SC 45U 6X8 SVF DVR WoS	Server Cabinet 45U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760099721
SC 45U 6X10 SVF DVR WS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760099739
SC 45U 6X10 SVF DVR WoS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760099747
SC 45U 8X8 SVF DVR WS	Server Cabinet 45U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760099754
SC 45U 8X8 SVF DVR WoS	Server Cabinet 45U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760099762
SC 45U 8X10 SVF DVR WS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760099770
SC 45U 8X10 SVF DVR WoS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760099788

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 47U 6X8 SVF DVR WS	Server Cabinet 47U 600 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760093930
SC 47U 6X8 SVF DVR WoS	Server Cabinet 45U 600 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760093948
SC 47U 6X10 SVF DVR WS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760093955
SC 47U 6X10 SVF DVR WoS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760093963
SC 47U 8X8 SVF DVR WS	Server Cabinet 47U 800 x 800, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760093971
SC 47U 8X8 SVF DVR WoS	Server Cabinet 47U 800 x 800, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760093989
SC 47U 8X10 SVF DVR WS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Double Vented Rear	Steel, Vented	Steel, Vented Double	760093997
SC 47U 8X10 SVF DVR WoS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Double Vented Rear, Additional Bay	Steel, Vented	Steel, Vented Double	760094003

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)


Cabinet with Steel Door

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts

Server Cabinet Builds with Steel Vented Front Doors and Single Vented Rear Doors

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 42U 6X8 SVF SVR WS	Server Cabinet 42U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760078006
SC 42U 6X8 SVF SVR WoS	Server Cabinet 42U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760078014
SC 42U 6X10 SVF SVR WS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760078022
SC 42U 6X10 SVF SVR WoS	Server Cabinet 42U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760078030
SC 42U 8X8 SVF SVR WS	Server Cabinet 42U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760078048
SC 42U 8X8 SVF SVR WoS	Server Cabinet 42U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760078055
SC 42U 8X10 SVF SVR WS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760078063
SC 42U 8X10 SVF SVR WoS	Server Cabinet 42U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760078071
SC 45U 6X8 SVF SVR WS	Server Cabinet 45U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760099879
SC 45U 6X8 SVF SVR WoS	Server Cabinet 45U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760099867
SC 45U 6X10 SVF SVR WS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760099895
SC 45U 6X10 SVF SVR WoS	Server Cabinet 45U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760099903
SC 45U 8X8 SVF SVR WS	Server Cabinet 45U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760099911
SC 45U 8X8 SVF SVR WoS	Server Cabinet 45U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760099929
SC 45U 8X10 SVF SVR WS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760099937
SC 45U 8X10 SVF SVR WoS	Server Cabinet 45U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760099945

Product Number	Detailed Description	Front Door	Rear Door	Material ID
SC 47U 6X8 SVF SVR WS	Server Cabinet 47U 600 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760093773
SC 47U 6X8 SVF SVR WoS	Server Cabinet 47U 600 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760093781
SC 47U 6X10 SVF SVR WS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760093799
SC 47U 6X10 SVF SVR WoS	Server Cabinet 47U 600 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760093807
SC 47U 8X8 SVF SVR WS	Server Cabinet 47U 800 x 800, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760093815
SC 47U 8X8 SVF SVR WoS	Server Cabinet 47U 800 x 800, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760093823
SC 47U 8X10 SVF SVR WS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Single Vented Rear	Steel, Vented	Steel, Vented	760093831
SC 47U 8X10 SVF SVR WoS	Server Cabinet 47U 800 x 1000, Vented Steel Front, Single Vented Rear, Additional Bay	Steel, Vented	Steel, Vented	760093849

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

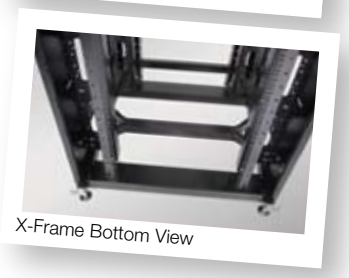
Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts


X-Frame Top View


X-Frame Bottom View

Accessories

Frames

Product Number	Detailed Description	Material ID
SC 42U 6X8 FRAME	Server Cabinet Frame 42U 600 x 800	760078246
SC 42U 6X10 FRAME	Server Cabinet Frame 42U 600 x 1000	760078253
SC 42U 8X8 FRAME	Server Cabinet Frame 42U 800 x 800	760078261
SC 42U 8X10 FRAME	Server Cabinet Frame 42U 800 x 1000	760078279
SC 45U 6X8 FRAME	Server Cabinet Frame 45U 600 x 800	760101170
SC 45U 6X10 FRAME	Server Cabinet Frame 45U 600 x 1000	760101188
SC 45U 8X8 FRAME	Server Cabinet Frame 45U 800 x 800	760101196
SC 45U 8X10 FRAME	Server Cabinet Frame 45U 800 x 1000	760101204
SC 47U 6X8 FRAME	Server Cabinet Frame 47U 600 x 800	760098640
SC 47U 6X10 FRAME	Server Cabinet Frame 47U 600 x 1000	760098657
SC 47U 8X8 FRAME	Server Cabinet Frame 47U 800 x 800	760098665
SC 47U 8X10 FRAME	Server Cabinet Frame 47U 800 x 1000	760098673



200mm Extension

200mm Extensions

Product Number	Detailed Description	Material ID
EXTEN CAB 42U X 600	200mm Extension Frame 42U x 600 Wide	760091140
EXTEN CAB 42U X 800	200mm Extension Frame 42U x 800 Wide	760091157
EXTEN CAB 45U X 600	200mm Extension Frame 45U x 600 Wide	760107045
EXTEN CAB 45U X 800	200mm Extension Frame 45U x 800 Wide	760107052
EXTEN CAB 47U X 600	200mm Extension Frame 47U x 600 Wide	760091165
EXTEN CAB 47U X 800	200mm Extension Frame 47U x 800 Wide	760091173

Cable Management Modules

Product Number	Detailed Description	Material ID
CM 42U 200X1000 LH WoD	42U x 200 Wide x 1000 Deep LH Module No Doors	760096560
CM 42U 200X1000 RH WoD	42U x 200 Wide x 1000 Deep RH Module No Doors	760102228
CM 42U 200X1000 C WoD	42U x 200 Wide x 1000 Deep Center Module No Doors	760102236
CM 42U 200X1000 LH WD	42U x 200 Wide x 1000 Deep LH Cable End Module With Doors	760096552
CM 42U 200X1000 RH WD	42U x 200 Wide x 1000 Deep RH Cable End Module With Doors	760101279
CM 42U 200X1000 C WD	42U x 200 Wide x 1000 Deep Cable Center Module With Doors	760101378
CM 45U 162X1000 LH WD	45U x 162 Wide x 1000 Deep LH Cable End Module with Doors	760100099
CM 45U 162X1000 RH WD	45U x 162 Wide x 1000 Deep RH Cable End Module with Doors	760101113
CM 45U 162X1000 C WD	45U x 162 Wide x 1000 Deep Cable Center Module with Doors	760100107

Accessories

Front and Rear Doors

Product Number	Detailed Description	Material ID
DR VGL 42U 600 3PL	42U x 600 Vent Glass Door - 3 Point Lock	760079053
DR VGL 42U 800 3PL	42U x 800 Vent Glass Door - 3 Point Lock	760079061
DR GL 42U 600 3PL	42U x 600 Plain Glass Door - 3 Point Lock	760079079
DR GL 42U 800 3PL	42U x 800 Plain Glass Door - 3 Point Lock	760079087
DR VS 42U 600 3PL	42U x 600 Vent Steel Door - 3 Point Lock	760079095
DR VS 42U 800 3PL	42U x 800 Vent Steel Door - 3 Point Lock	760079103
DR ST 42U 600 3PL	42U x 600 Plain Steel Door - 3 Point Lock	760079111
DR ST 42U 800 3PL	42U x 800 Plain Steel Door - 3 Point Lock	760079129
DR VD 42U 600 2PL	42U x 600 Vent Double Door - 2 Point Lock	760079137
DR VD 42U 800 2PL	42U x 800 Vent Double Door - 2 Point Lock	760079145
DR GL 45U 600 1PL	45U x 600 Plain Glass Door - 1 Point Lock	760101758
DR GL 45U 800 1PL	45U x 800 Plain Glass Door - 1 Point Lock	760101766
DR ST 45U 600 1PL	45U x 600 Plain Steel Door - 1 Point Lock	760101774
DR ST 45U 800 1PL	45U x 800 Plain Steel Door - 1 Point Lock	760101782
DR VGL 45U 600 3PL	45U x 600 Vent Glass Door - 3 Point Lock	760101790
DR VGL 45U 800 3PL	45U x 800 Vent Glass Door - 3 Point Lock	760101808
DR GL 45U 600 3PL	45U x 600 Plain Glass Door - 3 Point Lock	760101816
DR GL 45U 800 3PL	45U x 800 Plain Glass Door - 3 Point Lock	760101824
DR VS 45U 600 3PL	45U x 600 Vent Steel Door - 3 Point Lock	760101832
DR VS 45U 800 3PL	45U x 800 Vent Steel Door - 3 Point Lock	760101840
DR ST 45U 600 3PL	45U x 600 Plain Steel Door - 3 Point Lock	760101857
DR ST 45U 800 3PL	45U x 800 Plain Steel Door - 3 Point Lock	760101865
DR VD 45U 600 2PL	45U x 600 Vent Double Door - 2 Point Lock	760101873
DR VD 45U 800 2PL	45U x 800 Vent Double Door - 2 Point Lock	760101881
DR GL 47U 600 1PL	47U x 600 Plain Glass Door - 1 Point Lock	760094177
DR GL 47U 800 1PL	47U x 800 Plain Glass Door - 1 Point Lock	760094185
DR ST 47U 600 1PL	47U x 600 Plain Steel Door - 1 Point Lock	760094193
DR ST 47U 800 1PL	47U x 800 Plain Steel Door - 1 Point Lock	760094201
DR VGL 47U 600 3PL	47U x 600 Vent Glass Door - 3 Point Lock	760094219
DR VGL 47U 800 3PL	47U x 800 Vent Glass Door - 3 Point Lock	760094227
DR GL 47U 600 3PL	47U x 600 Plain Glass Door - 3 Point Lock	760094235
DR GL 47U 800 3PL	47U x 800 Plain Glass Door - 3 Point Lock	760094243
DR VS 47U 600 3PL	47U x 600 Vent Steel Door - 3 Point Lock	760094250
DR VS 47U 800 3PL	47U x 800 Vent Steel Door - 3 Point Lock	760094268
DR ST 47U 600 3PL	47U x 600 Plain Steel Door - 3 Point Lock	760094276
DR ST 47U 800 3PL	47U x 800 Plain Steel Door - 3 Point Lock	760094284
DR VD 47U 600 2PL	47U x 600 Vent Double Door - 2 Point Lock	760094292
DR VD 47U 800 2PL	47U x 800 Vent Double Door - 2 Point Lock	760094300


Extended Rear Door

Accessories

Extended Rear Doors

Product Number	Detailed Description	Material ID
DR VS 50EXT 42U 600 3PL LH	Extended Door, 42U x 600 Wide, LH Hinged-Vented	760103267
DR VS 50EXT 42U 800 3PL LH	Extended Door, 42U x 800 Wide, LH Hinged-Vented	760096586
DR VS 50EXT 45U 600 3PL LH	Extended Door, 45U x 600 Wide, LH Hinged-Vented	760103275
DR VS 50EXT 45U 800 3PL LH	Extended Door, 42U x 800 Wide, LH Hinged-Vented	760103283

Side Panels

Product Number	Detailed Description	Material ID
SP 42U 800D	Side Panel Kit of (2), 42U x 800	760079194
SP 42U 1000D	Side Panel Kit of (2), 42U x 1000	760079202
SP 45U 800D	Side Panel Kit of (2), 45U x 800	760101907
SP 45U 1000D	Side Panel Kit of (2), 45U x 1000	760101915
SP 47U 600D	Side Panel Kit of (2), 47U x 600	760094318
SP 47U 800D	Side Panel Kit of (2), 47U x 800	760094326
SP 47U 1000D	Side Panel Kit of (2), 47U x 1000	760094334

Divider Panels

Product Number	Detailed Description	Material ID
DP 42U 800D	42U x 800 Deep Divider Panel	760079210
DP 42U 1000D	42U x 1000 Deep Divider Panel	760079228
DP 45U 800D	45U x 800 Deep Divider Panel	760102293
DP 45U 1000D	45U x 1000 Deep Divider Panel	760102301
DP 47U 800D	47U x 800 Deep Divider Panel	760082834
DP 47U 1000D	47U x 1000 Deep Divider Panel	760082859

Top Panels

Product Number	Detailed Description	Material ID
TPV 6X8	600 W x 800 D Vent Top Panel	760079244
TPV 6X10	600 W x 1000 D Vent Top Panel	760079251
TPV 8X8	800 W x 800 Deep Vent Top Panel	760079277
TPV 8X10	800 W x 1000 D Vent Top Panel	760079285
TPP 6X8	600 W x 800 D Plain Top Panel	760079301
TPP 6X10	600 W x 1000 D Plain Top Panel	760079319
TPP 8X8	800 W x 800 D Plain Top Panel	760079335
TPP 8X10	800 W x 1000 D Plain Top Panel	760079343


Adjustable Foot Spacer

Accessories

Adjustable Feet

Product Number	Detailed Description	Material ID
ADJ FT	Adjustable Feet - Pack of 4	760079350
BDCLAMP	Bolt Down Clamps - Pack of 4	760079376
ADJ FT SPACR	Adjustable Foot Spacer - Pack of 4	760079384

Heavy Duty Castors

Product Number	Detailed Description	Material ID
HVY DTY CASTOR	Heavy Duty Castors - Server Frame Only - Pack of 4	760079392

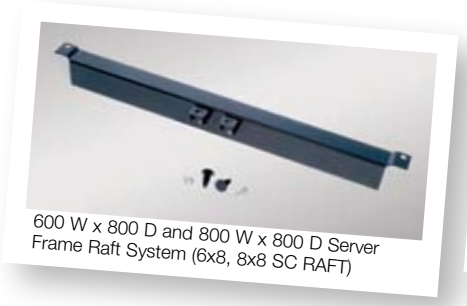
Baying Kits

Product Number	Detailed Description	Material ID
BAYKIT	Baying Kit	760079400
HBT 800D	800 mm Deep Horizontal Baying Trim	760079426
HBT 1000D	1000 mm Deep Horizontal Baying Trim	760079434


600 x 800 Non Vented 100 mm Plinth (6x8 NV 100M PLINTH)

100 mm Plinths

Product Number	Detailed Description	Material ID
6X8 NV 100M PLINTH	600 x 800 Non Vented 100 mm Plinth	760080150
6X10 NV 100M PLINTH	600 x 1000 Non Vented 100 mm Plinth	760080168
8X8 NV 100M PLINTH	800 x 800 Non Vented 100 mm Plinth	760080184
8X10 NV 100M PLINTH	800 x 1000 Non Vented 100 mm Plinth	760080192


600 W x 800 D and 800 W x 800 D Server Frame Raft System (6x8, 8x8 SC RAFT)


600 W Raft / Split Door Cross Beam (6WR SDCB)

Floor Tile Replacement Plinth

Product Number	Detailed Description	Material ID
6WR SDCB	600 W Raft / Split Door Cross Beam	760079491
8WR SDCB	800 W Raft / Split Door Cross Beam	760079509
6X8, 8X8 SC RAFT	600 W x 800 D and 800 W x 800 D Server Frame Raft System	760079517
6X10, 8X10 SC RAFT	600 W x 1000 D and 800 W x 1000 D Server Frame Raft System	760079525

Accessories

PDU Mounting Panel

Product Number	Detailed Description	Material ID
42U 150MM PDP	42U x 200 Cable / PDP Panel	760079533
45U 150MM PDP	45U x 200 Cable / PDP Panel	760102285
47U 150MM PDP	47U x 200 Cable / PDP Panel	760082800

Top Cable Management

Product Number	Detailed Description	Material ID
TOP SIDE BRUSH	Top Panel Side Brush Entry	760079541
TOP REAR BRUSH	Top Panel Rear Brush Entry	760079558

Filler Panels

Product Number	Detailed Description	Material ID
1U FP 12PK	1U x 19 in Front Panel - Pack of 12	760079731
2U FP 12PK	2U x 19 in Front Panel - Pack of 12	760079749
3U FP 6PK	3U x 19 in Front Panel - Pack of 6	760079756
4U FP 6PK	4U x 19 in Front Panel - Pack of 6	760079764
5U FP 6PK	5U x 19 in Front Panel - Pack of 6	760079772
10U FP 2PK	10U x 19 in Front Panel - Pack of 2	760079780
2U VFP 12PK	2U x 19 in Vented Front Panel - Pack of 12	760079798
4U VFP 6PK	4U x 19 in Vented Front Panel - Pack of 6	760079806
MPP Various Sizes	Multi Pack of Panels 2x1U, 1x2U, 1x3U, 1x4U and 1x5U	760079814



Quick Release Blank Panel

Quick Release Blank Panels

Product Number	Detailed Description	Color	Material ID
QR-RKFP1U-B	1U x 19 in. Blank Panel, Quick Release	Black	760103473
QR-RKFP2U-B	2U x 19 in. Blank Panel, Quick Release	Black	760103481
QR-RKFP4U-B	4U x 19 in. Blank Panel, Quick Release	Black	760103499


19 in Cantilever Shelf 255 Deep (CNTLVR SHLF 255D)

Accessories

Cantilever Shelves

Product Number	Detailed Description	Material ID
CNTLVR SHLF 255D	19 in Cantilever Shelf 255 Deep	760079822
CNTLVR SHLF 400D	19 in Cantilever Shelf 400 Deep	760079830

Heavy Duty Shelves

Product Number	Detailed Description	Material ID
472 HD SHLF 100 kg	19 in x 472 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080010
627 HD SHLF 100 kg	19 in x 622 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080028
754 HD SHLF 100 kg	19 in x 754 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080036

Sliding Shelves

Product Number	Detailed Description	Material ID
425 SLID SHLF 35 kg	19 in x 600 mm Sliding Shelf - 35 kg/77 lb Capacity	760080044
625 SLID SHLF 35 kg	19 in x 800 mm Sliding Shelf - 35 kg/77 lb Capacity	760080051
630 HD SLID SHLF 100 kg	19 in x 800 mm Heavy Duty Sliding Shelf - 100 kg/220 lb Capacity	760080077

Fan Trays

Product Number	Detailed Description	Material ID
SFT 230V	Standard Fan Tray 230V AC, 440 CFM	760080200
SFT 115V	Standard Fan Tray 115V AC, 440 CFM	760080218
LNFT 230V	Low Noise Fan Tray 230V AC, 204 CFM	760080226
LNFT 115V	Low Noise Fan Tray 115V AC, 204 CFM	760080234
MFT 90-250V	Monitored Fan Tray 90 - 250V AC, 508 CFM	760080242
LED CE22-13A UK	2M Mains Lead With LED CEE22 Plug And 13 Amp UK Plug	760080259
LED CE22-SCH GERFRN	2M Mains Lead With LED CEE22 Plug And Schuko (German/French) Plug	760080267
LED CE22-US	2M Mains Lead With LED CEE22 Plug And US Plug	760080275
REP-ADD SF 240V	Replacement / Additional Standard 240V Fan, 110 CFM	760080283
REP-ADD LNF 240V	Replacement / Additional Low Noise 240V Fan, 51 CFM	760080309
REP-ADD SF 115V	Replacement / Additional Standard 115V Fan	760080291
REP-ADD LNF 115V	Replacement / Additional Low Noise 115V Fan Power Leads	760080317


Standard Fan Tray 230V AC, 440 CFM (SFT 230V)


19 in x 472 Heavy Duty Shelf - 100 kg/220 lb Capacity (472 HD SHLF 100 kg)

Accessories

Grounding Accessories

Product Number	Detailed Description	Material ID
EARTH SQUID	Earthing Squid Kit - Pack of 4	760080366
10 ACC LEADS	Kit of 10 Accessory Earthing Leads	760080374

Magnetic Lights

Product Number	Detailed Description	Material ID
LIGHT SCH 230V	Light Schuko Version 230V	760080473
LIGHT US 115V	Light US Version 115V	760080499

Hardware

Product Number	Detailed Description	Material ID
M6X12 SCREWS 100PK	M6 x 12 Whiztite Screws - Pack of 100	760080531
M6 NUTS 100PK	M6 Whiztite Nuts - Pack of 100	760080549
PLST RET PINS 100PK	Plastic Retention Pins - Pack of 100	760080556
M6X18 PSCRW-WSH 100PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 100	760080564
M6X18 SSCRW-WSH 100PK	M6 x 18 Slotted Drive Screws And Cup Washers - Pack of 100	760080572
M6X18 PSCRW-WSH 1000PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 1000	760080580
M6 CN 100PK	M6 Caged Nuts - Pack of 100	760080598
M6 CN 1000PK	M6 Caged Nuts - Pack of 1000	760080606
M6 CNWEC 100PK	M6 Caged Nut With Earth Continuity - Pack of 100	760080614


10 ACC Leads


LED CE22-13A UK


REP-ADD SF 240V


M6 NUTS


PLST RET PINS


M6 CNWEC

Accessories

Channel Window Moulding

Product Number	Detailed Description	Material ID
CWM 125 10PK	125 mm Channel Window Moulding - Pack of 10	760081182

Channel Cable Retention Bobbins

Product Number	Detailed Description	Material ID
CCRB 125 10PK	125 mm Channel Cable Retention Bobbins - Pack of 10	760081190

Chassis Supports

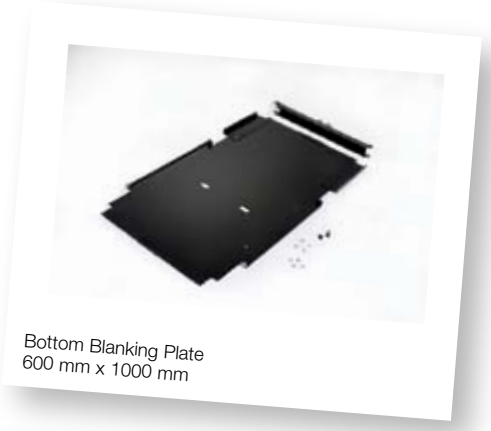
Product Number	Detailed Description	Material ID
370 CHS SPT SC 500D	370 mm Chassis Supports For Server Cabinets - 1 Pair	760082735
470 CHS SPT SC 600D	470 mm Chassis Supports For Server Cabinets - 1 Pair	760082743
570 CHS SPT SC 700D	570 mm Chassis Supports For Server Cabinets - 1 Pair	760082750
670 CHS SPT SC 800D	670 mm Chassis Supports For Server Cabinets - 1 Pair	760082768
770 CHS SPT SC	770 mm Chassis Supports For Server Cabinets - 1 Pair	760082776
870 CHS SPT SC	870 mm Chassis Supports For Server Cabinets - 1 Pair	760082784

Chassis Trays

Product Number	Detailed Description	Material ID
356 CHS TRAY SC	19 in x 356 Chassis Tray For Server Cabinets	760079939
456 CHS TRAY SC	19 in x 456 Chassis Tray For Server Cabinets	760079947
556 CHS TRAY SC	19 in x 556 Chassis Tray For Server Cabinets	760079954

Bottom Blanking Plates

Product Number	Detailed Description	Material ID
6X10 BBP	Cabinet Bottom Blanking Plate 600 mm x 1000 mm	760096578
8X10 BBP	Cabinet Bottom Blanking Plate 800 mm x 1000 mm	760101501
6X8 BBP	Cabinet Bottom Blanking Plate 600 mm x 800 mm	760101493
8X8 BBP	Cabinet Bottom Blanking Plate 800 mm x 800 mm	760101519



Bottom Blanking Plate
600 mm x 1000 mm



370 mm Chassis Supports For Server Cabinets (370 CHS SPT SC 500D)

Accessories

Fiber Management Duct Kits

Product Number	Detailed Description	Material ID
FM DUCT 42U	42U Fiber Management Duct Kit	760103374
FM DUCT 45U	45U Fiber Management Duct Kit	760103366
FM DUCT 47U	47U Fiber Management Duct Kit	760103358

18-inch Ladder Support Kits

Product Number	Detailed Description	Material ID
LR BRACKET 18IN	Kit, Bracket, Extension, Ladder Rack Support	760104315

Ladder Extension Kit

Product Number	Detailed Description	Material ID
LR BRACKET EXT	Kit, Bracket, Extension, Ladder Rack Support	760104323

Front to Back Trough Kits

Product Number	Detailed Description	Material ID
F2B 162MM CM	Kit, Trough, Front to Back, 162W Cable Module	760106997
F2B 200MM CM	Kit, Trough, Front to Back, 200W Cable Module	760104331
F2B 250MM CM	Kit, Trough, Front to Back, 250.8W Cable Module	760107003
F2B 300MM CM	Kit, Trough, Front to Back, 300W Cable Module	760107011
F2B 352MM CM	Kit, Trough, Front to Back, 352.4W Cable Module	760107029

Side to Side Trough Kits

Product Number	Detailed Description	Material ID
S2S 600MM CAB	Kit, Trough, Side to Side, 600W Cabinet Top	760104349
S2S 800MM CAB	Kit, Trough, Side to Side, 800W Cabinet Top	760104356

Network Cabinets


Cabinet with Glass Door

More than "just a box," CommScope Network Cabinets are a solution. Using patented X-Frame technology, CommScope cabinets are designed to be the right size, the right weight and have the right level of durability to support the entire line of CommScope solutions, including its industry-leading 10 Gbps solutions.

CommScope Network Cabinets are multi-practice 19 in and/or ETSI cabinet systems designed to support and enhance the installation of the network infrastructure. With any enclosure, you need it to provide:

- Strength
- Security
- Physical protection
- Minimal footprint
- Thermal, power and cable management
- Access
- Modularity, future proofing

X-Frame technology, with its lightweight, intelligent design and 500 kg/1100 lb capacity, reduces installation time and provides instant access for cable installation. Cable can be pulled into position first, before the cabinet is located and fixed onto tiles, creating maximum "elbow room" to work and draw cable into place. Fully moveable 19 in mountable uprights (front and rear) allow for maximum flexibility.

CommScope Network Cabinets' combination of strength yet lightweight construction, excellent cable access and management, plus extensive fast fitting accessories have set a new standard for datacom enclosures.

Features and Benefits:

- Supplied fully assembled
- Cable management room is superior for 10 Gbps cable
- Multiple cable entry points
- Vertical cable channels
- Patented X-Frame technology offers easy cable and equipment installation
- Load rated to 500 kg/1100 lb
- Right/left-handed doors
- Easily-removed and refitted cladding
- Future-proofed—can accommodate 19 in and ETSI equipment
- Accessories can be easily added or changed
- 2 width options—600 mm and 800 mm
- 2 depth options—600 mm and 800 mm

Standards:

IEC 297-2
DIN 41494, part 7
DIN 41491, part 1 (mounting dimensions)
EN 60950
VDE 0100

Network Primary Cabinet Builds

Product Number	Detailed Description	Front Door	Rear Door	Material ID
NC 42U 6X6 GF SR WS	Network Cabinet 42U 600 x 600	Glass, Plain	Steel, Plain	760078816
NC 42U 6X6 GF SR WoS	Network Cabinet 42U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain	760078824
NC 42U 6X8 GF SR WS	Network Cabinet 42U 600 x 800	Glass, Plain	Steel, Plain	760078832
NC 42U 6X8 GF SR WoS	Network Cabinet 42U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain	760078840
NC 42U 8X6 GF SR WS	Network Cabinet 42U 800 x 600	Glass, Plain	Steel, Plain	760078857
NC 42U 8X6 GF SR WoS	Network Cabinet 42U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain	760078865
NC 42U 8X8 GF SR WS	Network Cabinet 42U 800 x 800	Glass, Plain	Steel, Plain	760078873
NC 42U 8X8 GF SR WoS	Network Cabinet 42U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain	760078881
NC 45U 6X6 GF SR WS	Network Cabinet 45U 600 x 600	Glass, Plain	Steel, Plain	760099473
NC 45U 6X6 GF SR WoS	Network Cabinet 45U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain	760099481
NC 45U 6X8 GF SR WS	Network Cabinet 45U 600 x 800	Glass, Plain	Steel, Plain	760099499
NC 45U 6X8 GF SR WoS	Network Cabinet 45U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain	760099507
NC 45U 8X6 GF SR WS	Network Cabinet 45U 800 x 600	Glass, Plain	Steel, Plain	760099515
NC 45U 8X6 GF SR WoS	Network Cabinet 45U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain	760099523
NC 45U 8X8 GF SR WS	Network Cabinet 45U 800 x 800	Glass, Plain	Steel, Plain	760099531
NC 45U 8X8 GF SR WoS	Network Cabinet 45U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain	760099549
NC 47U 6X6 GF SR WS	Network Cabinet 47U 600 x 600	Glass, Plain	Steel, Plain	760094011
NC 47U 6X6 GF SR WoS	Network Cabinet 47U 600 x 600 Additional Bay	Glass, Plain	Steel, Plain	760094029
NC 47U 6X8 GF SR WS	Network Cabinet 47U 600 x 800	Glass, Plain	Steel, Plain	760094037
NC 47U 6X8 GF SR WoS	Network Cabinet 47U 600 x 800 Additional Bay	Glass, Plain	Steel, Plain	760094045
NC 47U 8X6 GF SR WS	Network Cabinet 47U 800 x 600	Glass, Plain	Steel, Plain	760094052
NC 47U 8X6 GF SR WoS	Network Cabinet 47U 800 x 600 Additional Bay	Glass, Plain	Steel, Plain	760094060
NC 47U 8X8 GF SR WS	Network Cabinet 47U 800 x 800	Glass, Plain	Steel, Plain	760094078
NC 47U 8X8 GF SR WoS	Network Cabinet 47U 800 x 800 Additional Bay	Glass, Plain	Steel, Plain	760094086

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)


Cabinet Frame

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts


Cabinet with Glass Door

Network Primary 'Plus' Cabinet Builds

Product Number	Detailed Description	Front Door	Rear Door	Material ID
NC 42U 6X6 GF SR WS wE	Network Cabinet 42U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain	760078899
NC 42U 6X6 GF SR WoS wE	Network Cabinet 42U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760078907
NC 42U 6X8 GF SR WS wE	Network Cabinet 42U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain	760078915
NC 42U 6X8 GF SR WoS wE	Network Cabinet 42U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760078923
NC 42U 8X6 GF SR WS wE	Network Cabinet 42U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain	760078931
NC 42U 8X6 GF SR WoS wE	Network Cabinet 42U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760078949
NC 42U 8X8 GF SR WS wE	Network Cabinet 42U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain	760078956
NC 42U 8X8 GF SR WoS wE	Network Cabinet 42U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760078964
NC 45U 6X6 GF SR WS wE	Network Cabinet 45U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain	760099556
NC 45U 6X6 GF SR WoS wE	Network Cabinet 45U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760099564
NC 45U 6X8 GF SR WS wE	Network Cabinet 45U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain	760099572
NC 45U 6X8 GF SR WoS wE	Network Cabinet 45U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760099582
NC 45U 8X6 GF SR WS wE	Network Cabinet 45U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain	760099598
NC 45U 8X6 GF SR WoS wE	Network Cabinet 45U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760099606
NC 45U 8X8 GF SR WS wE	Network Cabinet 45U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain	760099614
NC 45U 8X8 GF SR WoS wE	Network Cabinet 45U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760099622

Product Number	Detailed Description	Front Door	Rear Door	Material ID
NC 47U 6X6 GF SR WS wE	Network Cabinet 47U 600 x 600 (Earthed)	Glass, Plain	Steel, Plain	760094094
NC 47U 6X6 GF SR WoS wE	Network Cabinet 47U 600 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760094102
NC 47U 6X8 GF SR WS wE	Network Cabinet 47U 600 x 800 (Earthed)	Glass, Plain	Steel, Plain	760094110
NC 47U 6X8 GF SR WoS wE	Network Cabinet 47U 600 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760094128
NC 47U 8X6 GF SR WS wE	Network Cabinet 47U 800 x 600 (Earthed)	Glass, Plain	Steel, Plain	760094136
NC 47U 8X6 GF SR WoS wE	Network Cabinet 47U 800 x 600 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760094144
NC 47U 8X8 GF SR WS wE	Network Cabinet 47U 800 x 800 (Earthed)	Glass, Plain	Steel, Plain	760094151
NC 47U 8X8 GF SR WoS wE	Network Cabinet 47U 800 x 800 (Earthed) Additional Bay	Glass, Plain	Steel, Plain	760094169

WS = Cabinet Frame, Side Panels, Vented Top Panel and Associated Hardware
WoS = Cabinet Frame, Vented Top Panel and Associated Hardware. Does not include side panels.

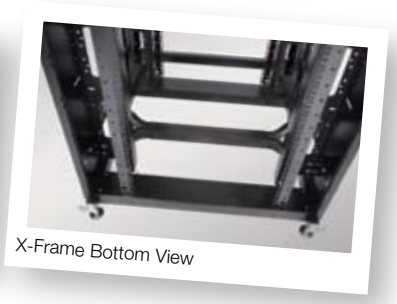
Hardware Included

Quantity	Description
4	earthing squids (fitted)
40	earthing cage nuts
40	M6 x 18 cheese head pozi front panel screws
40	plastic cup washers
4	adjustable feet
	All necessary attachment points (fitted)
	M6 primary earthing point (fitted)

Hardware Included with Additional Bay - 1 Baying Kit

Quantity	Description
8	baying brackets
4	M6 screws
4	M6 nuts


X-Frame Top View


X-Frame Bottom View

Accessories

Frames

Product Number	Detailed Description	Material ID
NC 42U 6X6 FRAME	Network Cabinet Frame 42U 600 x 600	760078972
NC 42U 6X8 FRAME	Network Cabinet Frame 42U 600 x 800	760078980
NC 42U 8X6 FRAME	Network Cabinet Frame 42U 800 x 600	760078998
NC 42U 8X8 FRAME	Network Cabinet Frame 42U 800 x 800	760079004
NC 45U 6X6 FRAME	Network Cabinet Frame 45U 600 x 600	760101139
NC 42U 6X8 FRAME	Network Cabinet Frame 45U 600 x 800	760101147
NC 42U 8X6 FRAME	Network Cabinet Frame 45U 800 x 600	760101154
NC 42U 8X8 FRAME	Network Cabinet Frame 45U 800 x 800	760101162
NC 47U 6X6 FRAME	Network Cabinet Frame 47U 600 x 600	760098608
NC 47U 6X8 FRAME	Network Cabinet Frame 47U 600 x 800	760098616
NC 47U 8X6 FRAME	Network Cabinet Frame 47U 800 x 600	760098624
NC 47U 8X8 FRAME	Network Cabinet Frame 47U 800 x 800	760098632

Front and Rear Doors

Product Number	Detailed Description	Material ID
DR GL 42U 600 SPL	42U x 600 Plain Glass Door - Single Point Lock	760079012
DR GL 42U 800 SPL	42U x 800 Plain Glass Door - Single Point Lock	760079020
DR ST 42U 600 SPL	42U x 600 Plain Steel Door - Single Point Lock	760079038
DR ST 42U 800 SPL	42U x 800 Plain Steel Door - Single Point Lock	760079046
DR VD 42U 600 2PL	42U x 600 Vent Double Door - 2 Point Lock	760079137
DR VD 42U 800 2PL	42U x 800 Vent Double Door - 2 Point Lock	760079145
DR GL 45U 600 1PL	45U x 600 Plain Glass Door - 1 Point Lock	760101758
DR GL 45U 800 1PL	45U x 800 Plain Glass Door - 1 Point Lock	760101766
DR ST 45U 600 1PL	45U x 600 Plain Steel Door - 1 Point Lock	760101774
DR ST 45U 800 1PL	45U x 800 Plain Steel Door - 1 Point Lock	760101782
DR VD 45U 600 2PL	45U x 600 Vent Double Door - 2 Point Lock	760101873
DR VD 45U 800 2PL	45U x 800 Vent Double Door - 2 Point Lock	760101881
DR GL 47U 600 1PL	47U x 600 Plain Glass Door - 1 Point Lock	760094177
DR GL 47U 800 1PL	47U x 800 Plain Glass Door - 1 Point Lock	760094185
DR ST 47U 600 1PL	47U x 600 Plain Steel Door - 1 Point Lock	760094193
DR ST 47U 800 1PL	47U x 800 Plain Steel Door - 1 Point Lock	760094201
DR VD 47U 600 2PL	47U x 600 Vent Double Door - 2 Point Lock	760094292
DR VD 47U 800 2PL	47U x 800 Vent Double Door - 2 Point Lock	760094300

Extended Rear Doors

Product Number	Detailed Description	Material ID
DR VS 50EXT 42U 600 3PL LH	Extended Door, 42U x 600 Wide, LH Hinged-Vented	760103267
DR VS 50EXT 42U 800 3PL LH	Extended Door, 42U x 800 Wide, LH Hinged-Vented	760096586
DR VS 50EXT 45U 600 3PL LH	Extended Door, 45U x 600 Wide, LH Hinged-Vented	760103275
DR VS 50EXT 45U 800 3PL LH	Extended Door, 45U x 800 Wide, LH Hinged-Vented	760103283

Accessories

Frames

Product Number	Detailed Description	Material ID
NC 42U 6X6 FRAME	Network Cabinet Frame 42U 600 x 600	760078972
NC 42U 6X8 FRAME	Network Cabinet Frame 42U 600 x 800	760078980
NC 42U 8X6 FRAME	Network Cabinet Frame 42U 800 x 600	760078998
NC 42U 8X8 FRAME	Network Cabinet Frame 42U 800 x 800	760079004
NC 45U 6X6 FRAME	Network Cabinet Frame 45U 600 x 600	760101139
NC 42U 6X8 FRAME	Network Cabinet Frame 45U 600 x 800	760101147
NC 42U 8X6 FRAME	Network Cabinet Frame 45U 800 x 600	760101154
NC 42U 8X8 FRAME	Network Cabinet Frame 45U 800 x 800	760101162
NC 47U 6X6 FRAME	Network Cabinet Frame 47U 600 x 600	760098608
NC 47U 6X8 FRAME	Network Cabinet Frame 47U 600 x 800	760098616
NC 47U 8X6 FRAME	Network Cabinet Frame 47U 800 x 600	760098624
NC 47U 8X8 FRAME	Network Cabinet Frame 47U 800 x 800	760098632

Front and Rear Doors

Product Number	Detailed Description	Material ID
DR GL 42U 600 SPL	42U x 600 Plain Glass Door - Single Point Lock	760079012
DR GL 42U 800 SPL	42U x 800 Plain Glass Door - Single Point Lock	760079020
DR ST 42U 600 SPL	42U x 600 Plain Steel Door - Single Point Lock	760079038
DR ST 42U 800 SPL	42U x 800 Plain Steel Door - Single Point Lock	760079046
DR VD 42U 600 2PL	42U x 600 Vent Double Door - 2 Point Lock	760079137
DR VD 42U 800 2PL	42U x 800 Vent Double Door - 2 Point Lock	760079145
DR GL 45U 600 1PL	45U x 600 Plain Glass Door - 1 Point Lock	760101758
DR GL 45U 800 1PL	45U x 800 Plain Glass Door - 1 Point Lock	760101766
DR ST 45U 600 1PL	45U x 600 Plain Steel Door - 1 Point Lock	760101774
DR ST 45U 800 1PL	45U x 800 Plain Steel Door - 1 Point Lock	760101782
DR VD 45U 600 2PL	45U x 600 Vent Double Door - 2 Point Lock	760101873
DR VD 45U 800 2PL	45U x 800 Vent Double Door - 2 Point Lock	760101881
DR GL 47U 600 1PL	47U x 600 Plain Glass Door - 1 Point Lock	760094177
DR GL 47U 800 1PL	47U x 800 Plain Glass Door - 1 Point Lock	760094185
DR ST 47U 600 1PL	47U x 600 Plain Steel Door - 1 Point Lock	760094193
DR ST 47U 800 1PL	47U x 800 Plain Steel Door - 1 Point Lock	760094201
DR VD 47U 600 2PL	47U x 600 Vent Double Door - 2 Point Lock	760094292
DR VD 47U 800 2PL	47U x 800 Vent Double Door - 2 Point Lock	760094300

Extended Rear Doors

Product Number	Detailed Description	Material ID
DR VS 50EXT 42U 600 3PL LH	Extended Door, 42U x 600 Wide, LH Hinged-Vented	760103267
DR VS 50EXT 42U 800 3PL LH	Extended Door, 42U x 800 Wide, LH Hinged-Vented	760096586
DR VS 50EXT 45U 600 3PL LH	Extended Door, 45U x 600 Wide, LH Hinged-Vented	760103275
DR VS 50EXT 45U 800 3PL LH	Extended Door, 45U x 800 Wide, LH Hinged-Vented	760103283

Accessories

Side Panels

Product Number	Detailed Description	Material ID
SP 42U 600D	Side Panel Kit of (2), 42U x 600	760079186
SP 42U 800D	Side Panel Kit of (2), 42U x 800	760079194
SP 45U 600D	Side Panel Kit of (2), 45U x 600	760101899
SP 45U 800D	Side Panel Kit of (2), 45U x 800	760101907
SP 47U 600D	Side Panel Kit of (2), 47U x 600	760094318
SP 47U 800D	Side Panel Kit of (2), 47U x 800	760094326

Divider Panels

Product Number	Detailed Description	Material ID
DP 42U 800D	42U x 800 Deep Divider Panel	760079210
DP 45U 800D	45U x 800 Deep Divider Panel	760102293
DP 47U 800D	47U x 800 Deep Divider Panel	760082834
DP 47U 1000D	47U x 1000 Deep Divider Panel	760082859

Top Panels

Product Number	Detailed Description	Material
TPV 6X6	600 W x 600 D Vent Top Panel	760079236
TPV 6X8	600 W x 800 D Vent Top Panel	760079244
TPV 8X6	800 W x 600 D Vent Top Panel	760079269
TPV 8X8	800 W x 800 D Vent Top Panel	760079277
TPP 6X6	600 W x 600 D Plain Top Panel	760079293
TPP 6X8	600 W x 800 D Plain Top Panel	760079301
TPP 8X6	800 W x 600 D Plain Top Panel	760079327
TPP 8X8	800 W x 800 D Plain Top Panel	760079335

Adjustable Feet

Product Number	Detailed Description	Material ID
ADJ FT	Adjustable Feet - Pack of 4	760079350
CASTOR	Castor Leveller Combination - Cable Only - Pack of 4	760079368
BDCLAMP	Bolt Down Clamps - Pack of 4	760079376



Bolt Down Clamps (BDCLAMP)

Accessories

Baying Kits

Product Number	Detailed Description	Material ID
BAYKIT	Baying Kit	760079400
HBT 600D	600 mm Deep Horizontal Baying Trim	760079418
HBT 800D	800 mm Deep Horizontal Baying Trim	760079426
6X6, 8X6 NC RAFT	600 W x 600 D and 800 W x 600 D Cable Frame Raft System	760079475
6X8, 8X8 NC RAFT	600 W x 800 D and 800 W x 800 D Cable Frame Raft System	760079483

100 mm Plinths

Product Number	Detailed Description	Material ID
6X8 NV 100M PLINTH	600 x 800 Non Vented 100 mm Plinth	760080150
8X6 NV 100M PLINTH	800 x 600 Non Vented 100 mm Plinth	760080176
8X8 NV 100M PLINTH	800 x 800 Non Vented 100 mm Plinth	760080184


600 mm Deep Horizontal Baying Trim (HBT 600D)


600 W x 600 D and 800 W x 600 D Cable Frame Raft System (6x6, 8x6 NC RAFT)


Baying Kit (BAYKIT)

Floor Tile Replacement Plinth

Product Number	Detailed Description	Material ID
6WR SDCB	600 W Raft / Split Door Cross Beam	760079491
8WR SDCB	800 W Raft / Split Door Cross Beam	760079509

Top Cable Management

Product Number	Detailed Description	Material ID
TOP SIDE BRUSH	Top Panel Side Brush Entry	760079541
TOP REAR BRUSH	Top Panel Rear Brush Entry	760079558

Accessories

Filler Panels

Product Number	Detailed Description	Material ID
1U FP 12PK	1U x 19 in Front Panel - Pack of 12	760079731
2U FP 12PK	2U x 19 in Front Panel - Pack of 12	760079749
3U FP 6PK	3U x 19 in Front Panel - Pack of 6	760079756
4U FP 6PK	4U x 19 in Front Panel - Pack of 6	760079764
5U FP 6PK	5U x 19 in Front Panel - Pack of 6	760079772
10U FP 2PK	10U x 19 in Front Panel - Pack of 2	760079780
2U VFP 12PK	2U x 19 in Vented Front Panel - Pack of 12	760079798
4U VFP 6PK	4U x 19 in Vented Front Panel - Pack of 6	760079806
MPP Various Sizes	Multi Pack of Panels 2x1U, 1x2U, 1x3U, 1x4U and 1x5U	760079814



Quick Release Blank Panel

Quick Release Blank Panels

Product Number	Detailed Description	Color	Material ID
QR-RKFP1U-B	1U x 19 in. Blank Panel, Quick Release	Black	760103473
QR-RKFP2U-B	2U x 19 in. Blank Panel, Quick Release	Black	760103481
QR-RKFP4U-B	4U x 19 in. Blank Panel, Quick Release	Black	760103499

Cantilever Shelves

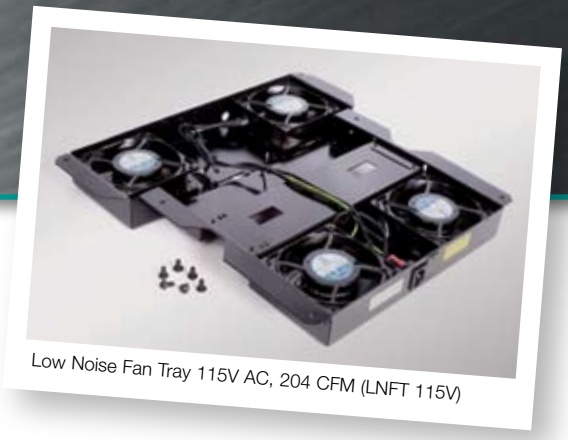
Product Number	Detailed Description	Material ID
CNTLVR SHLF 255D	19 in Cantilever Shelf 255 Deep	760079822
CNTLVR SHLF 400D	19 in Cantilever Shelf 400 Deep	760079830

Heavy Duty Shelves

Product Number	Detailed Description	Material ID
472 HD SHLF 100 kg	19 in x 472 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080010
627 HD SHLF 100 kg	19 in x 622 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080028
754 HD SHLF 100 kg	19 in x 754 Heavy Duty Shelf - 100 kg/220 lb Capacity	760080036

Sliding Shelves

Product Number	Detailed Description	Material ID
425 SLID SHLF 35 kg	19 in x 600 mm Sliding Shelf - 35 kg/77 lb Capacity	760080044
625 SLID SHLF 35 kg	19 in x 800 mm Sliding Shelf - 35 kg/77 lb Capacity	760080051
630 HD SLID SHLF 100 kg	19 in x 800 mm Heavy Duty Sliding Shelves - 100 kg/220 lb Capacity	760080077


Low Noise Fan Tray 115V AC, 204 CFM (LNFT 115V)

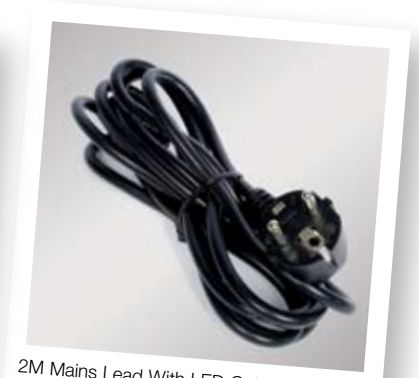
Accessories

Fan Trays

Product Number	Detailed Description	Material ID
SFT 230V	Standard Fan Tray 230V AC, 440 CFM	760080200
SFT 115V	Standard Fan Tray 115V AC, 440 CFM	760080218
LNFT 230V	Low Noise Fan Tray 230V AC, 204 CFM	760080226
LNFT 115V	Low Noise Fan Tray 115V AC, 204 CFM	760080234
MFT 90-250V	Monitored Fan Tray 90 - 250V AC, 508 CFM	760080242
LED CE22-13A UK	2M Mains Lead With LED CEE22 Plug And 13 Amp UK Plug	760080259
LED CE22-SCH GERFRN	2M Mains Lead With LED CEE22 Plug And Schuko (German/French) Plug	760080267
LED CE22-US	2M Mains Lead With LED CEE22 Plug And US Plug	760080275
REP-ADD SF 240V	Replacement / Additional Standard 240V Fan, 110 CFM	760080283
REP-ADD LNF 240V	Replacement / Additional Low Noise 240V Fan, 51 CFM	760080309
REP-ADD SF 115V	Replacement / Additional Standard 115V Fan	760080291
REP-ADD LNF 115V	Replacement / Additional Low Noise 115V Fan	760080317


Replacement / Additional Low Noise 240V Fan, 51 CFM (REP-ADD LNF 240V)


2M Mains Lead With LED CEE22 Plug and US Plug (LED CE22-US)


2M Mains Lead With LED CEE22 Plug And Schuko (German/French) Plug (LED CE22-SCH GERFRN)

Grounding Accessories

Product Number	Detailed Description	Material ID
EARTH SQUID	Earthing Squid Kit - Pack of 4	760080366
10 ACC LEADS	Kit of 10 Accessory Earthing Leads	760080374

Magnetic Lights

Product Number	Detailed Description	Material ID
LIGHT SCH 230V	Light Schuko Version 230V	760080473
LIGHT US 115V	Light US Version 115V	760080499


M6 x 18 Slotted Drive Screws And Cup Washers (M6X18 SSCRW-WSH)

Accessories

Hardware

Product Number	Detailed Description	Material ID
M6X12 SCREWS 100PK	M6 x 12 Whiztite Screws - Pack of 100	760080531
M6 NUTS 100PK	M6 Whiztite Nuts - Pack of 100	760080549
PLST RET PINS 100PK	Plastic Retention Pins - Pack of 100	760080556
M6X18 PSCRW-WSH 100PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 100	760080564
M6X18 SSCRW-WSH 100PK	M6 x 18 Slotted Drive Screws And Cup Washers - Pack of 100	760080572
M6X18 PSCRW-WSH 1000PK	M6 x 18 Pozi Drive Screws And Cup Washers - Pack of 1000	760080580
M6 CN 100PK	M6 Caged Nuts - Pack of 100	760080598
M6 CN 1000PK	M6 Caged Nuts - Pack of 1000	760080606
M6 CNWEC 100PK	M6 Caged Nut With Earth Continuity - Pack of 100	760080614

Channel Window Moulding

Product Number	Detailed Description	Material ID
CWM 50 10PK	50 mm Channel Window Moulding - Pack of 10	760081174
CWM 125 10PK	125 mm Channel Window Moulding - Pack of 10	760081182

125 mm Channel Cable Retention Bobbins

Product Number	Detailed Description	Material ID
CCRB 125 10PK	125 mm Channel Cable Retention Bobbins - Pack of 10	760081190


M6 x 18 Pozi Drive Screws And Cup Washers (M6X18 PSCRW-WSH)


M6 Caged Nuts (M6 CN)



366 mm Chassis Supports For Cable Cabinets (366 CHS SPT NC)



19 in x 366 Chassis Tray For Cable Cabinets (366 CHS TRAY)

Accessories

Chassis Supports

Product Number	Detailed Description	Material ID
366 CHS SPT NC	366 mm Chassis Supports For Cable Cabinets - 1 Pair	760079897
566 CHS SPT NC	19 in x 566 Chassis Supports -1 Pair (8 and 10)	760082818

Chassis Trays

Product Number	Detailed Description	Material ID
366 CHS TRAY	19 in x 366 Chassis Tray For Cable Cabinets	760079913
566 CHS TRAY 8-10D	19 in x 566 Chassis Tray For Cable Cabinets	760079962

Fiber Management Duct Kits

Product Number	Detailed Description	Material ID
FM DUCT 42U	42U Fiber Management Duct Kit	760103374
FM DUCT 45U	45U Fiber Management Duct Kit	760103366
FM DUCT 47U	47U Fiber Management Duct Kit	760103358

18-inch Ladder Support Kits

Product Number	Detailed Description	Material ID
LR BRACKET 18IN	Kit, Bracket, Extension, Ladder Rack Support	760104315

Ladder Extension Kit

Product Number	Detailed Description	Material ID
LR BRACKET EXT	Kit, Bracket, Extension, Ladder Rack Support	760104323

Front to Back Trough Kits

Product Number	Detailed Description	Material ID
F2B 162MM CM	Kit, Trough, Front to Back, 162W Cable Module	760106997
F2B 200MM CM	Kit, Trough, Front to Back, 200W Cable Module	760104331
F2B 250MM CM	Kit, Trough, Front to Back, 250.8W Cable Module	760107003
F2B 300MM CM	Kit, Trough, Front to Back, 300W Cable Module	760107011
F2B 352MM CM	Kit, Trough, Front to Back, 352.4W Cable Module	760107029

Side to Side Trough Kits

Product Number	Detailed Description	Material ID
S2S 600MM CAB	Kit, Trough, Side to Side, 600W Cabinet Top	760104349
S2S 800MM CAB	Kit, Trough, Side to Side, 800W Cabinet Top	760104356

Explanation of Cabinet Accessories

Divider Panels
Divider panels are full height steel panels, held in place between adjacent cabinets by the baying brackets provided. For use in bayed suites of cabinets, the divider panel restricts access to adjacent cabinets. Secure apertures, which can only be opened by having access to both sides, are provided at appropriate locations. Window moldings are provided for when the apertures are used. Divider panels can be used with open frame cabinets or additional bay cabinets. For use with all open frame cabinets and standard cabinet configurations.

Plain Top Panels
For use where limited heat is generated in the cabinet or where heat must not be allowed to pass through the top of a cabinet. Supplied with all required fixings. Plain top panels can be used with open frame cabinets or can be used to replace the vented top panel supplied with all other standard cabinet configurations.

Adjustable Feet
For use where replacements are required for damaged feet or where additional feet are required on 1000 deep server cabinets, provision is made to allow two additional feet. Recommended for when 1000 deep cabinets are loaded up to the maximum of 1000 kg (2200 lbs). Each foot is capable of taking up to 250 kg load. Supplied as a kit of four. All open frame cabinets and standard cabinet configurations are supplied with four adjustable feet.

Castor Leveler Combination
For use where castors are required on network cabinets. This product is a castor with built in adjustable foot. This allows the cabinet to be easily moved and once positioned the built in adjustable foot can be used to level the cabinet. The foot can be bolted down using the bolt down clamp accessory. Supplied as a kit of four. Dynamic load rating for four castors is 260 kg. Static load rating is 500 kg The castor leveler combination can be used with all open frame network cabinets and standard network cabinet configurations.

Bolt Down Clamps
This is a kit of four clamps which fit over either the adjustable feet or the castor leveler combination. The clamps are bolted down using 8mm DIA bolts (not supplied). For use with all open frame and standard cabinet configurations.

Adjustable Foot Spacer
For server cabinet applications where adjustable feet and heavy duty castors are used an adjustable foot spacer kit is required. Supplied as a kit of four. These spacers add to the length of the adjustable feet, thereby compensating for the height of the heavy duty castors. For use with all open frame server cabinets and standard server cabinet configurations that have heavy duty castors fitted.

Heavy Duty Castors
For use where castors are required on server cabinets. These allow a partially loaded cabinet to be easily moved into position. Supplied as a kit of four plus fixings. Two of the castors are braked. Dynamic load rating for four castors is 488 kg. Static load rating is 1000 kg. For use with all open frame server cabinets and standard server cabinet configurations.

Baying Kit
This kit is designed to join two cabinets of the same depth together side by side; independent as to whether they are server or network cabinets. The baying kit fits to the front face of each of the cabinet vertical members therefore cabinets can be bayed or unbayed even when fully populated with equipment. Supplied as a kit of four pairs plus fixings. Additional bayed cabinets are supplied with a baying kit. For use with all open frame and standard cabinet configurations which are to be converted to additional bay configurations.

Horizontal Baying Trims
When two cabinets are bayed together a 50mm (2") full depth cable entry exists between the cabinet top panels. This cable entry can be used to feed cables in from overhead. If this cable entry is not required then a horizontal baying trim is required. This trim can be fitted after the cabinets are bayed together and without removing the cabinet top panels. Supplied as a single item. For use with all bayed standard cabinet configurations.

Raft System – Network Cabinets
The 'raft mounting system' (floor tile replacement plinth) replaces a 600 x 600mm raised floor tile with a raised plinth that allows any size of cabinet to sit on it. The raft permits the floor tile in front of and behind the cabinet to be easily removed so access to the false floor void can be easily gained. When using 800mm cabinets they must be used in bays (groups) of three. A bay of three 800mm wide cabinets has a total width of 2,400mm (3 x 800mm) and will therefore require four rafts (4 x 600mm = 2,400mm). The raft kits are supplied as single items plus fixings and the relevant mounting brackets to suit the depth of cabinet. For use with all open frame network cabinets and standard network cabinet configurations. Please note that 600mm deep cabinets with split rear doors will require the addition of a split door cross beam kit (760079491 or 760079509).

Raft System – Server Cabinets

The 'raft mounting system' (floor tile replacement plinth) replaces a 600 x 600mm raised floor tile with a raised plinth that allows any size of cabinet to sit on it. The raft permits the floor tile in front of and behind the cabinet to be easily removed so access to the false floor void can be easily gained. When using 800mm cabinets they must be used in bays (groups) of three. A bay of three 800mm wide cabinets has a total width of 2,400mm (3 x 800mm) and will therefore require four rafts (4 x 600mm = 2,400mm). The raft kits are supplied as single items plus fixings and the relevant mounting brackets to suit the depth of cabinet. For use with all open frame server cabinets and standard server cabinet configurations.

Raft / Plinth Split Door Cross Beam

The raft / plinth split door kit is required when 600mm deep cabinets fitted with split doors are mounted onto rafts or when any size of cabinet with split doors is fitted to a plinth kit. Supplied as a single item plus fixings. For use with all open frame and standard cabinet configurations.

Cable / PDU Mounting Panel

The rear section of 1000 deep server cabinets provides an ideal area for running cables or mounting PDU's. The PDU panel fits into this area and provides numerous mounting points for fitting PDU brackets and cable ties, the approximate width of the panel is 150mm (6") wide. The 9.6mm (3/8") square punched holes in the panel will accept standard M6 cage nuts. The panel runs the full height of the cabinet. Supplied as a single item plus fixings and mounting brackets. For use with all open frame 1000mm deep server cabinets and standard 1000mm deep server cabinet configurations.

Top Panel Side Brush Entry

For top cable entry applications cables can enter the cabinet on either side or the rear of the top cover. The top panel side brush entry provides a smooth curved edge for the cable to flow over plus a brush seal that minimizes dust ingression or air leakage to or from the cabinet. Supplied as a single item for one side of a top panel. For use with all open frame cabinets fitted with a top panel and all standard cabinet configurations.

Top Panel Rear Brush Entry

For top cable entry applications cables can enter the cabinet on either side or the rear of the top cover. The top panel rear brush entry provides a smooth curved edge for the cable to flow over plus a brush seal that minimizes dust ingression or air leakage to or from the cabinet. Supplied as a single item for the rear of a top panel. For use with all open frame cabinets fitted with a top panel and all standard cabinet configurations.

19" Cantilever Shelf 255 Deep

Fits to the standard 19" mounting rails. The shelf is 2U high and the cabinet mounting rails must be set to a minimum of 255mm (10") overall. Load rating is 20 kg (44 lbs). Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" Cantilever Shelf 400 Deep

Fits to the standard 19" mounting rails. The shelf is 2U high and the cabinet mounting rails must be set to a minimum of 400mm (15.75") overall. Load rating is 20 kg (44 lbs). Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" x 366 Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails must be set to a minimum of 400mm (15.75") overall and a maximum of 500mm (19.68"). Note that the depth of the network cabinet mounting rails can only be changed in increments of 25mm (1"); each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" x 566 Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails must be set to a minimum of 550mm (21.65") overall and a maximum of 700mm (27.56"). Note that the depth of the network cabinet mounting rails can only be changed in increments of 25mm (1"); each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

370mm Chassis Supports

These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 374mm (14.72") overall and a maximum of 517.93mm (20.39"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

470mm Chassis Supports
These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 474mm (18.66") overall and a maximum of 617.93mm (24.33"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

570mm Chassis Supports
These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 574mm (22.6") overall and a maximum of 717.93mm (28.26"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

670mm Chassis Supports
These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 674mm (26.53") overall and a maximum of 817.93mm (32.2"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

770mm Chassis Supports
These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 774mm (30.47") overall and a maximum of 917.93mm (36.14"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

870mm Chassis Supports
These supports offer an ideal method of supporting heavy loads in line with 'U' positions. Fits to the standard 19" mounting rails. The supports are 1U high and the cabinet mounting rails can be set to a minimum of 874mm (34.4") overall and a maximum of 1017.93mm (40.07"). Each pair of supports has a load rating of 50 kg (110 lbs). Supplied as a pair plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 366 Chassis Tray
The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760079897 and 760082818. Supplied as a single item plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" X 566 Chassis Tray
The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082818. Supplied as a single item plus fixings. For use with all open frame network cabinets and standard network cabinet configurations.

19" X 356 Chassis Tray
The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082735, 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 456 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 556 Chassis Tray

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The tray has a load rating of 50 kg (110 lbs). This chassis tray requires a suitable pair of chassis supports of equal or greater length than the tray (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this tray are 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19" X 472 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082743, 760082750, 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

19" X 627 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082768, 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

19" X 754 Heavy Duty Shelf

The supporting surface of the tray is in line with the bottom of the 'U' above it, therefore the tray can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. Each shelf has a load rating of 100 kg (220 lbs). This chassis tray requires two suitable pairs of chassis supports (mounted above and below the shelf) of equal or greater length than the shelf (the chassis supports fit between the front and rear 19" mounting rails). Suitable chassis supports for this shelf are 760082776 & 760082784. Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations.

19" X 425mm Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the 'U' above it, therefore the shelf can be used to support both 19" mounted equipment and non 19" mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 35 kg (77 lbs) and can be pulled out 330mm (13"). The cabinet mounting rails can be set to a minimum of 456mm (17.95") overall and a maximum of 586mm (23.07"). This maximum dimension can be increased by 35mm (1.38") if the shelf is set back from the front mounting rails. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19” X 625mm Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the ‘U’ above it, therefore the shelf can be used to support both 19” mounted equipment and non 19” mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 35 kg (77 lbs) and can be pulled out 480mm (18.9”). The cabinet mounting rails can be set to a minimum of 621.83mm (24.48”) overall and a maximum of 787mm (31”). This maximum dimension can be increased by 35mm (1.38”) if the shelf is set back from the front mounting rails. Supplied as a single item plus fixings. For use with all open frame cabinets and standard cabinet configurations.

19” x 630 Heavy Duty Sliding Shelf

The supporting surface of the shelf is in line with the bottom of the ‘U’ above it, therefore the shelf can be used to support both 19” mounted equipment and non 19” mounted systems. Slotted holes offer air passage and also provide simple fixing positions. The shelf has a load rating of 100 kg (220 lbs) and can be pulled out 627mm (24.68”). The cabinet mounting rails can be set to a minimum of 661mm (26”) overall and a maximum of 748mm (29.44”). Supplied as a single item plus fixings. For use with all open frame server cabinets and standard server cabinet configurations. When selecting the heavy duty sliding shelf it is strongly advised that the cabinet is bolted down using the bolt down clamp kit 760079376 100mm Plinth The 100mm plinth provides cable access under the cabinet especially in applications where a false or raised floor is not available. The kit consists of corner sections plus four infill panels. The infill panels can be removed to provide cable access and when bayed the plinth, with the side infill panels removed, creates a through run for cables between cabinets. Adjustable feet can be fitted to enable the finished product to be leveled; these feet are normally removed from the cabinet that will be fitted to the plinth. Castors cannot be used with the plinth. Please note that cabinets with split rear doors will require the addition of a split door cross beam kit (760079491 or 760079509). For use with all open frame cabinets and standard cabinet configurations

Fan Trays

Top mounted fan trays are available to aid the cooling of equipment. They are designed to give maximum airflow with minimum noise generated. These may be retrofitted to the fully vented top panel that is supplied with the cabinet as standard and occupy none of the useable ‘U’ height or restrict the top cable access points. The electrical connection for all fan trays is by means of a CEE22 mains inlet which must be ordered separately. 760080259 for UK plug, 760080267 for Schuko plug and 760080275 for US plug.

Earthing Squid Kit

This kit enables a non grounded network cabinet to be up graded to a grounded one. Full instructions included with kit. All server cabinets and open frames are grounded as standard. For use with all non grounded standard network cabinet configurations. Kit of 10 Accessory Earthing Leads. This kit contains 10 earthing leads, all of which have a captive M6 nut at each end plus 10 earthing cage screws and 20 M6 x 12 screws. This kit has been designed to provide additional earthing leads for accessories.

Magnetic Lights

This magnetically attached light is ideal for use in any environment with steel cabinets. Using high output low power consumption fluorescent tubes. The 240V unit will require a mains lead and plug. For use with all open frame cabinets and standard cabinet configurations.

125mm Channel Window Molding

The 125mm channel window moldings clips into the apertures provided on both sides of the 19” panel mounts of 800mm wide cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	28	56
45U	28	56
47U	32	64

For use with all 800mm wide open frame cabinets and standard cabinet configurations.

50mm Channel Window Molding

The 50mm channel window moldings clips into the apertures provided on one side of the 19” panel mounts of 600mm wide network cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	28	56
45U	28	56
47U	32	64

For use with all 800mm wide open frame cabinets and standard cabinet configurations.

50mm Channel Window Molding

The 50mm channel window moldings clips into the apertures provided on one side of the 19" panel mounts of 600mm wide network cabinets. They provide a smooth curved surface around the apertures through which cables can be passed. The moldings can be fitted to both the front and rear of each aperture, if desired. Supplied in packs of ten moldings. The maximum number of window moldings is as follows:

Height	Front Only	Front & Rear
42U	7	14
45U	7	14
47U	8	16

For use with all 600mm wide open frame network cabinets and standard network cabinet configurations.

200mm Rear Extension Frames

This unit simply attaches to the rear of a cabinet thereby increasing the overall depth of a 1000mm deep cabinet by 200mm (i.e. a 1000mm deep cabinet becomes 1200mm). Additional vertical members allow the 19" mounting rails to be moved further back in the 1000mm deep cabinet. The load rating of the cabinet remains unchanged at 1000 kg (2200 lbs). Compatible with all accessories such as PDU mounting panels, split rear doors etc. Additional cable entry points are provided at the top and bottom of the extension frame. For use with all 1000mm deep open frame server cabinets and standard 1000mm server cabinet configurations.

Blanking Plates - Pack of 14

These blanking plates close off the window apertures that exist each side of the 19" panel mounts of 800mm wide cabinets. This is often needed to control the recirculation of hot air within a cabinet. Supplied as a pack of fourteen plus fixings. One pack will blank off all of the cable apertures at the front or rear of a 42U or 45U 800mm wide cabinet. For use with all 42U or 45U 800mm wide open frame cabinets and standard 42U or 45U 800mm cabinet configurations.

Blanking Plates - Pack of 16

These blanking plates close off the window apertures that exist each side of the 19" panel mounts of 800mm wide cabinets. This is often needed to control the recirculation of hot air within a cabinet. Supplied as a pack of fourteen plus fixings. One pack will blank off all of the cable apertures at the front or rear of a 47U 800mm wide cabinet. For use with all 47U 800mm wide open frame cabinets and standard 47U 800mm cabinet configurations.

Side Mounted Cable Modules

The side cable modules will fit either to the left, right or between cabinets and provide a means off bringing in large volumes of cable without directly entering the cabinet itself. 1U spaced plastic fingers within the module allow the cable to be managed easily before passing through brush entry apertures to the 19" equipment area. This has the benefit of keeping the cabinet itself clear of unnecessary cable that would otherwise obstruct airflow within the cabinet. Additional 2U x 19" apertures are provided within the cable module to enable equipment such as 19" PDU's to be fitted. The 19" apertures are adjustable front and rear on a 25mm (1U) pitch depending on where the cable is to be managed and the depth of any 19" equipment added. 200mm wide cable modules will fit to a 600mm wide open frame cabinet thereby enabling 800mm doors to be fitted. Other versions of the cable module are available with separate doors fitted front and back and use the same handles / locks as the main body of the cabinet. Baying kits and horizontal baying trims are not required when using a side cable module. Standard cabinet side panels can be used with the cable modules.

Bottom Blanking Plate

A bottom blanking plate when fitted to a cabinet ensures that air must be pulled through the front vented door, this can help to reduce re-circulation of air and is essential when a chimney top is fitted. For use with all 600mm wide x 1000mm deep standard cabinet configurations.

Extended Rear Door – Vented

The extended rear door can be used when an additional 50mm (2") of cabling space is needed at the rear of a cabinet. An infill panel is included to enable the door to be used when a 600 wide cabinet and 200mm side cable module has been specified. For use with all open frame cabinets and standard cabinet configurations.

600 Wide x 1000 Deep Chimney Top

The chimney top can help to dissipate up to 11KW of heat from within the cabinet, The chimney is telescopic to help reduce the risk of re-circulation of air. A plain door and bottom blanking plate should be fitted when using a chimney top panel. For use with all 600 wide x 1000 deep open frame server cabinets and standard 600 wide x 1000 deep server cabinet configurations.

Latch Bracket Kit

Latch bracket kits are required when doors are to be fitted to open frame cabinets. They act as the central latching point for single and three point latching doors. They are not required for three point latching doors if two point latching is sufficient. Supplied as a pair of brackets suitable for 600/800 or 1000 deep cabinets plus fixings. For use with all open frame cabinets.

PACKAGING & SHIPPING INFORMATION

Copper Cable Packaging and Shipping 355
Fiber Optic Cable Packaging and Shipping 356

Copper Packaging & Shipping

Product Number	Reels (1K)		We-Tote Box		Reels (3K)		Reels (4K)	
	Reels/Layer	Reels/Pallet	Reels/Layer	Reels/Pallet	Reels/Layer	Reels/Pallet	42.5x24x24	Pallet Qty.
	2091B 9		27	8	16	4	8	
1091B	9	27	8	16	4	8		
3091B	9	27	8	16	4	8		
2291B	5	15						
1291B	5	15						
3291B	5	15						
2071E	9	27	10	30	4	12		
1071E	9	27	10	30	4	12		
3071E	9	27	10	30	4	12		
1571A	9	27			4	12		
2061F	16	48	12	36	5	15		
1061C	16	48	12	36	5	15		
3061A	16	48	12	36	5	15		
2061B-25pr	1	3					1	1
1061F-25pr	4	8					1	1
3061B-25pr	4	8					1	1
2010B			12	36				
1010A			12	36				

Shipping Information

Packaging and Shipping

Packaging and Shipping

Fiber optic cable is packaged for shipment on wooden or composite reels. Each package contains only one continuous length of cable. The packaging is designed to prevent damage to the cable during shipping and handling. Fiber cable reels are protected with a "reel wrap", the highest technology available today. This wrap is stronger, lighter and more environmentally friendly than other methods of lagging. In addition, reel wrap is simple to remove from the reel and readily disposable. All reel sizes between 35 and 88 inches will be blocked and palletized to help ensure safe arrival to the customer. Reels larger than 88 inches are placed on the rolling edge and securely fastened to the trailer during shipment.

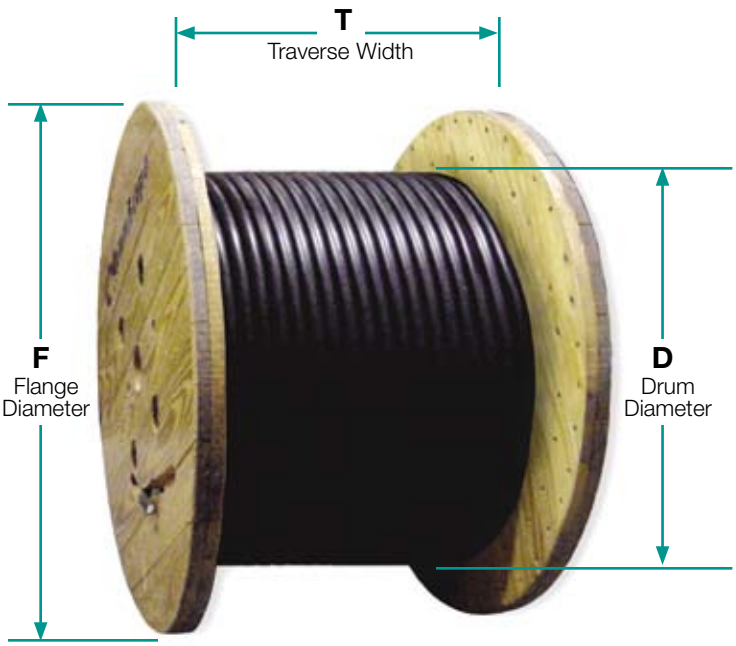
Each reel is plainly marked to indicate the direction in which it should be rolled to prevent loosening of the cable on the reel.

Method of Shipment

CommScope's customary method of shipment of fiber optic cable from Claremont, North Carolina to the purchaser's site will vary depending on factors such as the size and number of cable reels, and the destination location. Shipper options include Federal Express, UPS, BAX, LTL motor freight carriers and CommScope's own fleet of trucks, "Cable Transport". Some trucks within CommScope's fleet are equipped with "Cargo Master" equipment for ease in unloading cable reels onlocation where no loading dock is available. CommScope has red arm Cargo Masters, which can lift anything 2,500 pounds or less. CommScope also has white arm Cargo Masters which will lift anything up to 8,000 pounds that is on an 84" reel or smaller. These specially equipped trucks are available by request.

International Packaging

Products shipped outside the continental United States are protected with reel wrap, lagged with wood, and blocked and palletized (for reel sizes between 35 and 88 inches) or placed on the rolling edge and securely fastened to international shipping containers.



Fiber Optic Cable Packaging

Outside Plant All Dry Stranded Loose Tube Non-Armored (LN) Cables Gel-Free Buffer Tube

Flange x Drum x Traverse	Reel Weight (lbs)	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	5,937	4,767	3,731	2,902	1,455	NA
42 x 24 x 25**	109	10,094	8,175	6,999	5,304	2,649	2,110
42 x 22 x 29.75	118	13,419	11,098	8,867	6,998	3,387	2,647
48 x 22 x 32.5	176	22,201	18,055	14,358	11,772	5,464	4,070
54 x 24 x 28	370	24,914	20,663	16,836	12,673	6,378	4,946
60 x 30 x 32	433	33,291	27,618	22,505	16,981	8,628	6,649
66 x 30 x 32	506	43,769	35,933	28,917	22,608	11,279	8,370
72 x 36 x 36	627	55,918	45,930	36,503	28,513	14,249	10,499
78 x 36 x 36	758	60,000	57,205	46,547	36,096	17,807	13,559
84 x 40 x 40	913	N/A	60,000	59,343	46,438	23,743	17,278
88 x 40 x 40	958	N/A	N/A	60,000	48,882	26,066	19,256
96 x 44 x 46	984	N/A	N/A	N/A	60,000	N/A	26,116

All Units in Feet 2" Flange Clearance **with flange ring

Outside Plant All Dry Stranded Loose Tube Armored (LA) Cables Gel-Free Buffer Tube

Flange x Drum x Traverse	Reel Weight (lbs)	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	4,968	3,666	3,169	2,470	1,455	N/A
42 x 24 x 25**	109	7,954	6,265	5,405	4,524	2,649	2,110
42 x 22 x 29.75	118	10,182	8,045	7,104	5,513	3,387	2,647
48 x 22 x 32.5	176	16,888	14,088	11,732	9,661	5,464	4,070
54 x 24 x 28	370	19,400	15,681	13,572	10,601	6,378	4,946
60 x 30 x 32	433	26,036	21,061	17,822	14,134	8,628	6,649
66 x 30 x 32	506	34,140	27,281	22,529	18,368	11,279	8,370
72 x 36 x 36	627	43,250	34,544	28,844	23,433	14,249	10,499
78 x 36 x 36	758	54,167	42,888	36,499	29,161	17,807	13,559
84 x 40 x 40	913	60,000	54,357	46,890	37,678	23,743	17,278
88 x 40 x 40	958	N/A	60,000	53,492	43,608	26,066	19,256
96 x 44 x 46	984	N/A	N/A	60,000	58,745	36,252	26,116

All Units in Feet 2" Flange Clearance **with flange ring

Fiber Optic Cable Packaging

Outside Plant Stranded Loose Tube Armored (LA) Cables Arid Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1	290-432F 12@6@1
35 x 16.5 x 18**	70	3,249	2,774	2,061	1,699	1,365	1,635	NA	NA
42 x 24 x 24**	109	5,501	4,686	3,790	2,785	2,220	2,220	1,717	1,713
42 x 22 x 29.75	118	7,203	6,298	4,728	3,840	3,197	3,197	2,208	2,270
48 x 22 x 32.5	176	11,869	10,704	7,861	6,154	4,750	4,750	3,921	4,019
54 x 24 x 28	370	13,508	11,514	8,854	7,135	5,732	5,732	4,328	4,456
60 x 30 x 32	433	18,041	15,543	11,710	9,576	7,619	7,619	5,874	5,855
66 x 30 x 32	506	23,794	20,932	15,571	12,361	10,116	10,116	7,500	7,472
72 x 36 x 36	627	30,383	26,521	20,078	15,541	12,865	12,865	9,459	9,670
78 x 36 x 36	758	38,211	32,579	25,397	19,248	15,381	15,381	11,621	12,648
84 x 40 x 40	913	48,919	41,707	31,419	25,459	20,420	20,420	14,639	15,844
88 x 40 x 40	958	55,644	47,916	35,456	27,860	22,578	22,578	17,404	17,740
96 x 44 x 46	984	60,000	60,000	50,639	38,413	31,457	31,457	23,913	24,298

All Units in Feet 2" Flange Clearance **with flange ring

Outside Plant Stranded Loose Tube Non-Armored (LN) Cables Arid Core

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1	290-432F 12@6@1
36 x 22 x 29.75**	80	3,823	3,302	2,462	1,796	1,455	1,455	NA	NA
42 x 24 x 24**	109	6,989	6,181	4,513	3,261	2,649	2,649	2,110	2,099
42 x 22 x 29.75	118	8,994	7,968	6,122	4,582	3,387	3,387	2,647	2,709
48 x 22 x 32.5	176	14,329	13,027	9,798	7,101	5,464	5,464	4,070	4,585
54 x 24 x 28	370	16,800	14,803	10,781	8,036	6,378	6,378	4,946	5,059
60 x 30 x 32	433	22,463	19,637	14,344	10,691	8,628	8,628	6,649	6,781
66 x 30 x 32	506	28,856	25,652	19,541	14,401	11,279	11,279	8,370	9,145
72 x 36 x 36	627	36,908	32,593	24,853	18,322	14,249	14,249	10,499	11,427
78 x 36 x 36	758	47,051	40,711	30,736	22,336	17,807	17,807	13,559	13,778
84 x 40 x 40	913	59,221	51,818	39,551	29,119	23,743	23,743	17,278	17,518
88 x 40 x 40	958	NA	58,744	44,069	32,995	26,066	26,066	19,256	20,545
96 x 44 x 46	984	NA	60,000	60,000	45,289	36,252	36,252	26,116	27,682

All Units in Feet 2" Flange Clearance **with flange ring

Outside Plant Central Tube Cables

Flange x Drum x Traverse	Reel Weight (lbs)	RCN 2-24F	CN 2-24F	CN 26-48F	CN 50-96F	CA 2-24F	CA 26-48F	CA 50-96F
35 x 16.5 x 18*	70	4,756	5,305	3,302	2,462	4,266	3,249	2,408
42 x 24 x 24*	109	8,757	8,999	6,181	4,513	7,971	5,501	4,023
42 x 29 x 29.75	118	11,231	12,205	7,968	6,122	10,207	7,203	5,437
48 x 22 x 32.5	176	18,238	19,475	13,027	9,798	16,719	11,869	8,924
54 x 24 x 28	370	20,913	22,255	14,803	10,781	19,466	13,508	10,466
60 x 30 x 32	433	27,909	29,581	19,637	14,344	25,764	18,041	13,975
66 x 30 x 32	506	37,565	39,500	25,652	19,541	33,798	23,794	18,181
72 x 36 x 36	627	39,000	50,234	32,593	24,853	42,863	30,383	23,221
78 x 36 x 36	758	NA	61,977	39,000	30,736	53,702	38,211	28,922

*Denotes Composite Reel All Units in Feet 2" Flange Clearance

Figure 8 Armored (M LA) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	MLA 2-72F 6@1	MLA 74-144F 12@1	MLA 146-216F 12@6@1	MLA 218-288F 15@9@1
35 x 16.5 x 18**	70	1,560	1,117	1,117	NA
42 x 24 x 24**	109	2,604	1,791	1,791	1,590
42 x 22 x 29.75	118	3,382	1,987	1,987	1,518
48 x 22 x 32.5	176	5,806	3,088	3,088	2,689
54 x 24 x 28	370	6,448	3,603	3,603	2,886
60 x 30 x 32	433	8,575	4,762	4,762	3,860
66 x 30 x 32	506	11,549	6,322	6,322	4,928
72 x 36 x 36	627	14,689	8,291	8,291	6,306
78 x 36 x 36	758	18,044	9,912	9,912	7,747
84 x 40 x 40	913	23,170	13,069	13,069	9,873
88 x 40 x 40	958	26,620	14,450	14,450	12,952
96 x 44 x 46	984	NA	20,419	20,419	16,261

All Units in Feet 2" Flange Clearance **with flange ring

Figure 8 Armored Non-Armored (M LN) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	MLN 2-60F 5@1	MLN 2-72F 6@1	MLN 74-144F 12@1	MLN 146-216F 12@6@1	MLN 218-288F 15@9@1
35 x 16.5 x 18**	70	1,956	1,743	1,152	1,152	NA
42 x 24 x 24**	109	3,489	3,151	2,087	2,087	1,892
42 x 22 x 29.75	118	4,488	4,117	2,117	2,117	1,713
48 x 22 x 32.5	176	7,767	6,711	3,431	3,431	2,750
54 x 24 x 28	370	8,659	7,531	3,965	3,965	3,246
60 x 30 x 32	433	11,370	10,272	5,217	5,217	4,313
66 x 30 x 32	506	15,170	13,418	6,820	6,820	5,429
72 x 36 x 36	627	19,599	16,966	8,905	8,905	6,914
78 x 36 x 36	758	24,070	21,192	11,129	11,129	8,929
84 x 40 x 40	913	30,229	26,869	14,509	14,509	11,268
88 x 40 x 40	958	34,000	30,460	15,929	15,929	13,814
96 x 44 x 46	984	NA	NA	22,219	22,219	17,246

All Units in Feet 2" Flange Clearance**with flange ring

Outside Plant Drop Cables

Flange x Drum x Traverse	Reel Weight (lbs)	DN 2-12F
22 x 12 x 12	12	1,500
30 x 12 x 12	18	3,954
35 x 16.5 x 18	70	7,886
42 x 24 x 25	109	14,008
42 x 22 x 29.75	118	19,138
48 x 22 x 32.5	176	33,540
54 x 24 x 28	370	39,240
60 x 30 x 32	433	40,000
66 x 30 x 32	506	NA
72 x 36 x 36	627	NA
78 x 36 x 36	758	NA

All Units in Feet 2" Flange Clearance

Fiber Optic Cable Packaging

Outside Plant Double Jacketed Single Armored (L2) Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	2,408	2,115	1,737	1,450	NA	NA	NA
42 x 24 x 24**	109	4,023	3,859	3,271	2,721	2,155	2,155	1,717
42 x 22 x 29.75	118	5,437	5,266	4,060	3,375	2,761	2,761	2,208
48 x 22 x 32.5	176	8,924	8,698	6,990	6,073	4,769	4,769	3,921
54 x 24 x 28	370	10,466	9,540	7,885	6,520	5,593	5,593	4,328
60 x 30 x 32	433	13,975	12,822	10,516	8,594	7,457	7,457	5,874
66 x 30 x 32	506	18,181	16,857	13,410	11,227	9,269	9,269	7,500
72 x 36 x 36	627	23,221	21,628	17,120	14,486	11,839	11,839	9,459
78 x 36 x 36	758	28,922	27,141	22,035	19,043	15,103	15,03	11,621
84 x 40 x 40	913	35,467	33,424	27,539	23,636	19,063	19,063	14,639
88 x 40 x 40	958	41,212	39,012	31,317	27,128	22,223	22,223	15,661
96 x 44 x 46	984	55,872	53,242	43,228	36,663	29,684	29,684	23,913

All Units in Feet 2" Flange Clearance *24 Fibers Per Tube **with flange ring

Outside Plant Triple Jacketed Double Armored (L3) Cables

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	1,191	NA	NA	NA	NA	NA	NA
42 x 24 x 24**	109	2,155	2,105	1,661	1,325	1,231	1,231	NA
42 x 22 x 29.75	118	2,761	2,717	2,150	1,770	1,676	1,676	NA
48 x 22 x 32.5	176	4,769	4,164	3,443	2,875	2,748	2,748	NA
54 x 24 x 28	370	5,593	4,926	3,968	3,330	2,827	2,827	NA
60 x 30 x 32	433	7,457	6,626	5,245	4,457	3,826	3,826	3,152
66 x 30 x 32	506	9,269	8,337	7,340	5,882	5,154	5,154	4,358
72 x 36 x 36	627	11,839	10,717	9,278	7,521	6,643	6,643	5,498
78 x 36 x 36	758	15,103	13,834	11,407	9,464	8,480	8,480	6,578
84 x 40 x 40	913	19,063	17,586	14,743	12,126	10,676	10,676	8,718
88 x 40 x 40	958	22,223	19,595	16,586	12,796	12,232	12,232	10,141
96 x 44 x 46	984	29,684	27,797	22,430	19,074	17,192	17,192	13,329

All Units in Feet 2" Flange Clearance

Plenum Loose Tube Non-Armored Interlock Armored Cable

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1
35 x 16.5 x 18**	70	1,405	1,191	NA	NA	NA
42 x 24 x 24**	109	2,584	2,155	2,110	1,673	1,280
42 x 22 x 29.75	118	3,324	2,761	2,647	2,098	1,725
48 x 22 x 32.5	176	5,383	4,769	4,070	3,376	2,816
54 x 24 x 28	370	6,263	5,593	4,946	3,877	3,249
60 x 30 x 32	433	8,495	7,457	6,649	5,138	4,362
66 x 30 x 32	506	10,000	9,269	8,370	6,662	5,768
72 x 36 x 36	627	14,066	10,000	10,000	8,458	7,174
78 x 36 x 36	758	17,596	15,103	13,559	10,000	8,401

All Units in Feet 2" Flange Clearance

Indoor/Outdoor Plenum-Rated Loose Tube Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1
35 x 16.5 x 18**	70	5,468	5,299	3,823	2,902	2,343
42 x 24 x 24**	109	9,987	8,991	6,989	5,303	2,947
42 x 22 x 29.75	118	12,553	12,192	8,993	6,997	5,251
48 x 22 x 32.5	176	20,863	19,450	14,329	11,770	8,664
54 x 24 x 28	370	23,800	22,224	16,800	12,670	9,717
60 x 30 x 32	433	31,493	29,546	22,463	16,978	13,027
66 x 30 x 32	506	41,969	39,445	28,855	22,604	17,119
72 x 36 x 36	627	53,424	50,172	36,907	28,509	21,559
78 x 36 x 36	758	67,367	61,892	47,050	36,089	27,043

All Units in Feet 2" Flange Clearance

Fiber Optic Cable Packaging

Plenum-Rated Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	4,090	8,991	22,563	28,000	NA	NA	NA	NA	NA	NA	NA
4	3,050	6,998	17,584	28,000	NA	NA	NA	NA	NA	NA	NA
6	2,522	5,802	14,170	26,713	NA	28,000	NA	NA	NA	NA	NA
8	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA
12	1,696	3,899	9,444	18,048	28,000	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,069	15,879	17,289	23,123	28,000	NA	NA	NA
24	NA	NA	NA	9,097	13,942	15,669	20,392	28,000	NA	NA	NA

Plenum-Rated Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	NA	NA	7,700	8,067	10,988	17,918	19,605	26,276	28,000	NA	NA
24	NA	NA	5,616	6,181	7,968	13,027	14,803	19,637	25,652	28,000	NA
36	NA	NA	4,481	4,772	6,385	10,820	12,337	16,589	21,158	26,779	28,000
48	NA	NA	3,780	4,023	5,437	8,924	10,466	13,975	18,181	23,227	28,000
60	NA	NA	2,858	3,193	3,982	6,878	7,926	10,562	13,478	16,872	20,721
72	NA	NA	2,378	2,657	3,313	5,488	6,408	8,461	11,067	14,307	17,888
96	NA	NA	1,668	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
144	NA	NA	1,405	1,612	2,104	3,387	3,757	4,998	6,483	8,484	10,545

Riser-Rated Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	3,553	8,168	20,028	28,000	NA	NA	NA	NA	NA	NA	NA
4	2,522	5,802	14,170	26,713	NA	28,000	NA	NA	NA	NA	NA
6	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA
8	1,976	4,287	10,420	19,855	28,000	28,000	NA	NA	NA	NA	NA
12	1,640	3,525	8,866	16,947	27,859	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,820	16,918	18,657	24,907	28,000	NA	NA	NA
24	NA	NA	NA	9,097	13,890	15,669	20,392	28,000	NA	NA	NA

Riser-Rated Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	NA	NA	5,610	6,273	8,058	13,136	15,714	20,784	26,930	28,000	NA
24	NA	NA	4,396	4,600	6,211	9,912	11,586	15,357	19,768	25,111	28,000
36	NA	NA	3,970	4,531	5,522	9,036	10,625	14,161	18,409	23,479	28,000
48	NA	NA	3,303	3,790	4,728	7,861	8,854	11,710	15,571	20,078	25,397
60	NA	NA	2,517	2,785	3,840	6,154	7,135	9,576	12,361	15,541	19,248
72	NA	NA	2,063	2,215	3,186	4,849	5,707	7,591	10,072	12,815	16,187
96	NA	NA	1,608	1,661	2,150	3,443	3,968	5,245	7,340	9,278	11,407
144	NA	NA	1,300	1,327	1,713	2,883	3,341	4,469	5,902	7,327	9,224

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Cable Packaging

LSZH Distribution Single Unit Cables

Fiber	18x12x12	22x12x12	30x12x12	35x16.5x18	42x20.5x21	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
2	4,090	8,991	22,563	28,000	NA	NA	NA	NA	NA	NA	NA	NA
4	2,419	5,278	12,881	24,443	NA	28,000	NA	NA	NA	NA	NA	NA
6	1,976	4,287	10,420	19,855	28,000	28,000	NA	NA	NA	NA	NA	NA
8	1,583	3,418	8,294	15,862	25,520	27,646	28,000	NA	NA	NA	NA	NA
12	1,228	2,626	6,326	12,375	20,194	21,514	28,000	NA	NA	NA	NA	NA
18	NA	NA	NA	10,069	15,863	17,289	23,123	28,000	NA	NA	NA	NA
24	NA	NA	NA	8,393	12,977	14,595	18,966	28,000	NA	NA	NA	NA

LSZH Distribution Multi Unit Cables

Fiber	30x12x12	35x16.5x18	42x20.5x21	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
18	NA	NA	3,469	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141
24	NA	NA	2,942	3,271	4,060	6,990	7,885	10,516	13,410	17,120	22,035
36	NA	NA	2,444	3,125	3,919	6,262	7,282	9,536	12,302	15,784	20,524
48	NA	NA	2,066	2,220	3,197	4,750	5,732	7,619	10,116	12,865	15,381
60	NA	NA	1,718	2,043	2,655	4,085	4,547	5,963	8,176	10,536	12,816
72	NA	NA	1,402	1,669	2,162	3,466	3,864	5,122	6,639	8,431	11,188

Plenum-Rated Armored Distribution Single Unit Cables

Fiber	35x16.5x18	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	FT	FT
2-12	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
18-24	1,752	3,203	3,997	6,369	7,246	9,706	13,258	16,947	20,824

Plenum-Rated Armored Distribution Multi Unit Cables

Fiber	35x16.5x18	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	FT	FT
18	NA	2,099	2,709	4,585	5,059	6,781	9,145	11,427	13,778
24	NA	1,773	2,264	4,004	4,439	5,836	7,443	9,638	13,778
36	NA	2,110	2,647	4,070	4,946	6,649	8,370	10,499	13,559
48	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	12,600
60	NA	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
72	NA	NA	NA	NA	2,527	3,314	4,560	5,915	7,656
96	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
144	NA	NA	NA	NA	NA	2,626	3,348	4,276	5,248

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Cable Packaging

Riser-Rated Armored Distribution Single Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
2-12	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
18-24	2,115	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141

Riser-Rated Armored Distribution Multi Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	1,191	2,155	2,761	4,769	5,593	7,457	9,269	11,839	15,103
24	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
36	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
48	NA	1,717	2,208	3,921	4,328	5,874	7,500	9,459	11,621
60	NA	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
72	NA	NA	NA	2,429	2,527	3,314	4,560	5,915	7,656
96	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
144	NA	NA	NA	NA	NA	2,215	3,249	4,162	5,115

LSZH Armored Distribution Single Unit Cables

Fiber	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
2-8	3,249	5,501	7,203	11,869	13,508	18,041	23,794	28,000	NA
12	2,529	4,600	6,211	9,912	11,586	15,357	19,768	25,111	28,000
18-24	2,115	3,859	5,266	8,695	9,540	12,822	16,857	21,628	27,141

LSZH Armored Distribution Multi Unit Cables

Fiber	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
18	1,673	2 098	3,376	3,877	5,138	6,662	8,458	10,508
24	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
36	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
48	1,236	1,621	2,429	2,844	3,713	5,007	6,477	8,274
60	NA	NA	NA	NA	3,152	4,358	5,498	6,578
72	NA	NA	NA	NA	2,706	3,445	4,386	5,898

Reel Weights (lbs.)

18x12x12	22x12x12	30x12x12	35x16.5x18	42x24x24	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72x36x36	78x36x36	84x40x40	88x40x40
8.5	12	18	70	109	118	176	370	433	506	627	758	913	958

Fiber Optic Cable Packaging

Riser-Rated Loose Tube Non-Armored Cables (All-Dry)

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1
35 x 16.8 x 18**	70	3,809	3,749	2,832	1752	2,412	NA
42 x 24 x 25**	109	7,099	6,365	5,325	3,203	4,028	2,776
42 x 22 x 29.75	118	8,964	8,762	6,906	3,997	5,337	3,919
48 x 22 x 32.5	176	15,290	14,225	10,944	6,369	8,779	6,263
54 x 24 x 28	370	17,006	15,869	12,510	7,246	9,871	7,101
60 x 30 x 32	433	22,704	21,280	16,791	9,706	12,963	9,536
66 x 30 x 32	506	30,282	28,650	22,375	13,258	17,021	12,302
72 x 36 x 36	627	38,643	36,199	28,247	16,947	21,814	15,785
78 x 36 x 36	758	47,451	44,706	34,482	20,824	28,507	20,525
84 x 40 x 40	627	62,192	57,166	44,521	25,671	35,537	25,793
88 x 40 x 40	758	69,771	64,450	50,962	29,315	41,301	40,383

All Units in Feet 2" Flange Clearance **with flange ring

Riser Loose Tube Non-Armored Interlock Armored Cable

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
35 x 16.5 x 18**	70	1,191	NA	NA	NA	NA	NA	NA
42 x 24 x 24**	109	2,155	2,110	1,673	1,322	1,236	1,191	NA
42 x 22 x 29.75	118	2,761	2,647	2,098	1,766	1,621	NA	NA
48 x 22 x 32.5	176	4,769	4,070	3,376	2,958	2,429	NA	NA
54 x 24 x 28	370	5,593	4,946	3,877	3,319	2,844	2,772	2,319
60 x 30 x 32	433	7,457	6,649	5,138	4,444	3,713	3,627	3,067
66 x 30 x 32	506	9,269	8,370	6,662	5,863	5,007	4,461	3,839
72 x 36 x 36	627	10,000	10,000	8,458	7,499	6,477	5,804	4,871
78 x 36 x 36	758	15,103	13,559	10,000	9,433	8,162	7,205	6,179

All Units in Feet 2" Flange Clearance

Riser-Rated Heavy Duty Cables

Flange x Drum x Traverse	Reel Weight (lbs)	2-60F 5@1	62-72F 6@1	74-96F 8@1	98-120F 10@1	122-144F 12@1	146-216F 12@6@1	218-288F 15@9@1
42 x 22 x 29.75	118	6,298	5,522	4,582	3,313	2,700	2,700	2,162
48 x 22 x 32.5	176	10,704	9,036	7,101	5,488	4,687	4,687	3,466
54 x 24 x 28	370	11,514	10,625	8,036	6,408	5,038	5,038	3,865
60 x 30 x 32	433	15,543	14,161	10,691	8,461	6,757	6,757	5,122
66 x 30 x 32	506	20,932	18,409	14,401	11,067	9,107	9,107	6,639
72 x 36 x 36	627	26,521	23,479	18,322	14,307	11,656	11,656	8,431
78 x 36 x 36	758	32,579	29,225	22,336	17,888	14,049	14,049	11,188

All Units in Feet 2" Flange Clearance

Fiber Optic Cable Packaging

Plenum-Rated Indoor/Outdoor Distribution Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2	3,050	6,998	10,000	NA	NA	NA	NA	NA	NA	NA	NA
4	2,522	5,802	10,000	NA	NA	NA	NA	NA	NA	NA	NA
6	2,073	4,772	10,000	NA	NA	NA	NA	NA	NA	NA	NA
8	1,696	3,899	9,444	10,000	NA	NA	NA	NA	NA	NA	NA
12	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA
18	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA
24	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NA	NA

Plenum-Rated Indoor/Outdoor Distribution Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
36	NA	1,737	3,319	3,271	4,060	6,990	7,885	10,000	NA	NA	NA
48	NA	1,455	2,519	2,649	3,387	5,464	6,378	8,628	10,000	NA	NA
60	NA	NA	2,004	2,105	2,717	4,164	4,926	6,626	8,337	10,000	NA
72	NA	NA	1,663	1,661	2,150	3,443	3,968	5,245	7,340	9,278	10,000
96	NA	NA	1,066	1,236	NA	NA	2,844	3,713	5,007	6,477	8,274
144	NA	NA	1,026	NA	NA	NA	2,378	3,137	4,333	5,659	6,767

Plenum-Rated Indoor/Outdoor Distribution Armored Single Unit Cables

Fiber	18x12x12 FT	22x12x12 FT	30x12x12 FT	35x16.5x18 FT	42x20.5x21 FT	42x24x24 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT
2-8	NA	NA	NA	3,249	4,479	5,501	7,203	10,000	NA	NA	NA
12	NA	NA	NA	2,529	3,877	4,600	6,211	9,912	10,000	NA	NA
18	NA	NA	NA	2,529	2,938	4,600	6,211	9,912	10,000	NA	NA
24	NA	NA	NA	2,115	2,519	3,859	5,266	8,695	9,540	10,000	NA

Plenum-Rated Indoor/Outdoor Distribution Armored Multi Unit Cables

Fiber	30x12x12 FT	35x16.5x18 FT	42x24x25 FT	42x22x29.75 FT	48x22x32.5 FT	54x24x28 FT	60x30x32 FT	66x30x32 FT	72X36X36 FT	78X36X36 FT
36	NA	NA	1,322	1,766	2,958	3,319	4,444	5,863	7,499	9,433
48	NA	NA	1,280	1,725	2,816	3,249	4,362	5,768	7,174	8,401
60	NA	NA	1,191	NA	NA	2,772	3,627	4,461	5,804	7,205
72	NA	NA	NA	NA	NA	NA	2,706	3,445	4,386	5,898
96-144	NA	NA	NA	NA	NA	NA	NA	2,396	2,986	3,801

GLOSSARY

Glossary of Terms

The following glossary offers explanations for a number of terms used in this catalog. It additionally provides explanations for a number of other terms frequently used within the networking and cabling industries.

10BASE-T
10 Mbps Ethernet using 2-pairs of Category 3 cable.

100BASE-T4
100 Mbps Fast Ethernet using 4-pairs of Category 3 cable.

100BASE-TX
100 Mbps Fast Ethernet using 2-pairs of Category 5 cable.

100VG-AnyLAN
100 Mbps LAN using Demand Priority Protocol originally developed by Hewlett Packard and AT&T for Category 3 cable.

1000BASE-T
1000 Mbps (1 Gbps) Ethernet using 4-pairs of Category 5e cable.

1000BASE-TX
A low cost alternative to 1000BASE-T developed by TIA for Category 6 cabling.

1000BASE-SX
1000 Mbps (1 Gbps) Ethernet operating on multimode fiber with short wave lasers (850 nm).

1000BASE-LX
1000 Mbps (1 Gbps) Ethernet operating on multimode fiber with long wave lasers (1300 nm).

10GBASE-T
10 Gbps Ethernet using 4-pairs of Category 6 or better cabling.

10GBASE-LR
10 Gigabit Ethernet operating at long wavelength (1300 nm) on single-mode optical fiber. 10GBASE-LR is the LAN version, 10GBASE-LW is the WAN version. Up to 10 Km reach.

10GBASE-LX4
10 Gigabit Ethernet operating at long wavelength (1300 nm) on multimode or single-mode optical fiber. Designed to overcome the imperfections of legacy multimode fiber, by utilizing 4 lasers and 4 detectors operating at different wavelengths. Up to 300 m reach on multimode, 10 Km on single-mode.

10GBASE-SR
10 Gigabit Ethernet operating at short wavelength (850 nm) on laser optimized (OM3) multimode fiber. The lowest cost transceiver alternative, taking advantage of the advances in multimode fiber terchnology that eliminate the imperfections of legacy multimode. Up to 300 m reach on laser optimized (OM3) multimode fiber (up to 550 m supported on enhanced OM3 fiber).

Ad hoc cabling
Cabling scheme where different types of cabling components from different vendors are linked together to form a cabling system.

Alien Crosstalk
Signal coupling between adjacent cabling componets (cables, connectors) or between adjacent links or channels.

Analogue transmission
A method of signal transmission in which the shape of the signal is a continuously variable and directly measurable physical quantity such as voltage.

Application
A system, with its associated transmission method which is supported by telecommunications cabling.

Application layer
The uppermost layer (layer 7) of the open systems interconnection (OSI) model. This layer is concerned with support to the user application and is responsible for managing the communication between applications, e.g. Email, File transfer, etc.

ASCII
The American Standard Code for Information Interchange. A widely-used 7 or 8 bit binary code used to represent alphabetic and numeric characters in computer understandable form.

Asynchronous
Two or more signals sourced from independent clocks, therefore having different frequency and phase relations.

Asynchronous data transfer
A method of data transfer in which each alphabetic or numeric character (represented by 7 or 8 bits) is preceded by 'start' and 'stop' bits to delineate the 7/8 bit pattern from the ideal pattern which otherwise occupies the (digital) transmission medium.

Asynchronous transfer mode (ATM)
A high-speed cell-based switching and multiplexing technology based on segmentation of voice, data and video into fixed packets (cells). These cells are transferred along switched paths and are not received on a regular basis (hence the term asynchronous).

Attenuation
The effect of signal dwindling, experienced with accumulating line length or distance of radio transmission.

Backbone(s)
The part of a premises distribution system that includes a main cable route and facilities for supporting the cable from the equipment room to the upper floors, or along the same floor to the wiring closets.

Balanced circuit
A circuit where equal and opposite signals are generated and sent on to two conductors. The better the balance of a circuit, the lesser is its emissions and the greater is its noise immunity (hence the better is its EMC performance).

Balanced twisted pair cable
A cable consisting of one or more metallic symmetrical cable elements (twisted pairs or quads).

Balun
An adapter used to convert balanced to unbalanced signals in order to connect legacy equipment or video devices to structured cabling.

Bandwidth
The range of frequencies that can be used for transmitting information on a channel. It indicates the transmission-carrying capacity of a channel. Thus, the larger the bandwidth, the greater the amount of information that can pass through the circuit. Measured in hertz or bits per second or MHz-Km (for fiber).

Bit error rate (BER)
A measure of quality of a digital transmission line, either quoted as a percentage, or more usually as a ratio, typically 1 error in 10E8 or 10E9 bits carried. The lower the number of errors, the better the quality of the line.

Bridge(s)
A device used to link two subnetworks using the same communications method and sometimes the same kind of transmission medium.

Building backbone cable
A cable that connects the building distributor to a floor distributor. Building backbone cables may also connect floor distributors in the same building.

Building distributor
A distributor in which the building backbone cable(s) terminate(s) and at which connections to the campus backbone cable(s) may be made.

Building entrance facility
A facility that provides all necessary mechanical facility and electrical services, that complies with all relevant regulations, for the entry of telecommunications cables into a building.

BUS
Consists of a common transmission path with a number of nodes attached to it. Sometimes referred to as linear network topology.

Cable fill
The ratio of cable installed into a conduit/trunking against the theoretical maximum capacity of the conduit/trunking.

Cable routing diagram
A detailed drawing showing the layout of the cable routes.

Cabling
A system of telecommunications cables, cords and connecting hardware that can support the connection of information technology equipment.

Campus
A premises containing more than one building adjacent or near to one another.

Campus backbone cabling
A cable that connects the campus distributor to the building backbone distributor(s). Campus backbone cables may also connect building cabling distributors directly.

Carrier sense multiple access/collision (CSMA/CD)
Network access method in which nodes contend for the right to send data. If two or more nodes attempt to transmit at the same time, they abort their transmission until a random time period of microseconds has transpired and then attempt to resend.

Category 3
Industry standard for cable and connecting hardware products with transmission characteristics specified to 16 MHz, designed to support digital transmission of 10 Mbps.

Category 5
Industry standard for cable and connecting hardware products with transmission characteristics specified to 100 MHz, designed to support digital transmission of 100 Mbps.

Category 5e
Enhanced Category 5 specifications for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 1000 Mbps.

Category 6
Industry standard for cable and connecting hardware products with transmission characteristics specified to 250 MHz, designed to support digital transmission in excess of 1000 Mbps.

Category 6A
Specification currently in draft to become an industry standard for cable and connecting hardware products with transmission characteristics specified to 500 MHz, designed to support digital transmission of 10 Gbps.

Category 7
Industry standard for cable and connecting hardware products with transmission characteristics specified to 600 MHz, and requiring individually shielded pair cables. May require either a switched RJ-45 or a non-RJ-45 connector.

Ceiling distribution
Distribution system that uses the space between the false or suspended ceiling and the structural ceiling for housing horizontal cable routes.

Cell relay
A fast packet switching technique which uses fixed-length cells. Generic name for ATM, SMDS and BISDN.

CENELEC
European committee for electrotechnical standardization.

CENELEC EN50173
The European standard for generic cabling for customer premises.

CENELEC EN50174
A proposed European cabling systems planning & installation standard being developed by CENELEC.

Channel
The end-to-end transmission path connecting any two pieces of application-specific equipment. Equipment cables and work area cables are included in the channel.

Churn
The relocation of an individual or a group of individuals within a building such that the workspace or services to the workspace require change.

Client/server
A technique by which processing can be distributed between nodes requesting information (clients) and those maintaining data (servers).

Coaxial Cable (Coax)
A cable with a center conductor surrounded by a thick insulation, surrounded by an outer conductor made of metal braid. An outer jacket insulation is optional.

Collapsed backbone
This architecture is a backbone topology where wiring concentrators located at floor levels are attached in a star configuration to a central high performance switching concentrator.

Consolidation point
An interconnection point in horizontal cabling, typically used to support the re-arrangement of furniture cloisters.

Cords
A short length of copper wire or fiber optic cable with connectors on each end. Used to connect equipment to cabling, or to connect cabling segments (cross-connection).

Cross-connect
A facility enabling the termination of cable elements and their connection, primarily by means of patch cords or jumpers.

Crosstalk
An electromagnetic coupling between two physically isolated circuits in a system. This coupling causes a signal on one circuit to induce a noise voltage on adjacent circuits, thereby causing signal interference.

CSMA/CD
See Carrier Sense Multiple Access/Collision Detect.

Customer premises equipment (CPE)
Customer owned equipment used to terminate or process information from the public network (i.e. Multiplexer or PABX).

Data circuit terminating equipment (DCE)
The equipment terminating and controlling the transmission line, and often marking the end point of the public data network. Data terminal equipment's (DTEs) such as computers are connected directly to DCE.

Data terminating equipment (DTE)
The term used to describe any type of computer or other equipment, when connected to a data communications network.

Datalink layer
Layer 2 of the OSI model. This layer is responsible for error free transmission of bits on a physical interface. Also known as the link layer. The best known layer 2 protocol is HDLC (High Level Data Link Control).

Decibel (dB)
A unit used to measure relative increase or decrease in power, voltage or current, using a logarithmic scale.

Digital transmission
A technique in which all information is converted into binary digits for transmission.

Distributor
The term used for the functions of a collection of components (i.e. patch panels, patch cords) used to connect cables.

EIA/TIA
North American Standards organization.

EIA/TIA 568B
North American commercial building telecommunications wiring standard.

EIA/TIA 569A
North American commercial building standard for telecommunications pathways and spaces. Its purpose is to standardize specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.

EIA/TIA 606
North American administration standard for the telecommunications infrastructure of commercial buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.

Electromagnetic compatibility (EMC)
The ability of a system, equipment or device to operate satisfactorily in its environment without introducing unacceptable electromagnetic disturbance, or being affected by that environment.

Electromagnetic flux
Electric and magnetic fields (commonly referred to as emissions) generated by equipment or system.

Electromagnetic interference (EMI)
The interference in signal transmission or reception caused by the radiation of electric and magnetic fields.

Equipment cable
A cable connecting equipment to a distributor.

Equipment room
A room dedicated for housing distributors and application-specific equipment.

Ethernet
A LAN originally developed by DEC, Xerox and Intel. It uses the CSMA/CD protocol.

Fast Ethernet
A 100 Mbps LAN based on CSMA/CD protocol. See 100BASE-T.

Fiber
See Optical Fiber.

Fiber channel
This is an ANSI standard describing point to point and switched point to point physical interface, transmission protocol, signalling protocol, services and command set mapping of a high performance serial link for uses between mainframe computers and computer peripherals.

Fiber distributed data interface (FDDI)
An American National Standards Institute standard for fiber-based token passing access protocol that operates at a 100 Mbps data transfer rate.

Flood wiring
The concept of wiring for future growth, by providing full coverage of information outlets.

Flood distributor
The distributor used to connect between the horizontal cable and other cabling subsystems or equipment (see telecommunications closet).

Foil screened twisted pair cable (F/UTP)
A cable that uses a metallic foil to surround the conductors in a twisted pair cable.

Full duplex
Simultaneous two-way communication on the same link or cabling channel.

Full duplex Ethernet
Full duplex Ethernet allows nodes to transmit and receive data at the same time, doubling throughput between workstation and switch.

Generic cabling
A structured telecommunications cabling system, capable of supporting a wide range of applications. Generic cabling can be installed without prior knowledge of the required applications. Application-specific hardware is not a part of generic cabling.

Grid Computing
Grid computing makes spare CPU horsepower available across the network to large jobs that require it, by harnessing the capabilities of dispersed devices across the network.

Half duplex
Two-way transmission on a single link or cabling channel, one direction at a time.

Horizontal cable
A cable connecting the floor distributor to the telecommunications outlet(s).

Horizontal runs
See horizontal subsystem.

Horizontal subsystem
The part of the premises distribution system installed on one floor that includes the cabling and distribution components connecting the riser backbone or equipment wiring to the information outlet.

Hub
A concentrator or repeater in a star topology at which node connections meet.

Hybrid cable
An assembly of two or more different types of cable units, cables or categories covered by an overall sheath. It may be covered by an overall shield.

IEC 60332
The international standard covering fire performance of cables.

IEEE
Institute of Electrical and Electronic Engineers in the USA. This organization is also involved in producing Local Area Network standards such as Ethernet.

Individual pair screened
Where each twisted pair in one overall cable has its own screen.

InfiniBand™ architecture
A high bandwidth switched network topology currently being developed for Storage Area Networks (SANS).

Integrated services digital network (ISDN)
Integrated voice and data network based on digital communications technology and standards interfaces.

Intelligent buildings
Buildings that maximize the efficiency of its occupants and allow effective management of resources with minimum life-time costs (Source: European Intelligent Building Group).

Interconnect
A location at which equipment cables are terminated and interconnected to the cabling subsystems without using a patch cord or jumper.

Interface cards
See Network Interface Cards.

Interference
A signal impairment caused by the interaction of another unwanted signal.

ISO
International Standards Organization.

ISO seven layer model
A 7 layer hierarchical reference structure model developed by the ISO for defining, specifying and relating communications protocol.

ISO/IEC IS 11801
The international standard for generic cabling for customer premises.

ISO/IEC 14763-1
The international standard for basic administration of generic cabling.

Jumper
A cable unit or cable element without connectors used to make a connection on a cross-connect.

Keying
A mechanical feature of a connector system which guarantees correct orientation of a connection or prevents the connection to a jack or optical fiber adapter of the same type intended for another purpose.

Permanent link
The transmission path between two mated interfaces of generic cabling, excluding equipment cables, work area cables and cross-connections.

Local area network(s) (LANs)
A LAN allows users to share information and computer resources. Typically, a local area network is limited to a single building.

Multimedia
A means of conveying information with components in different media such as voice, music, text, graphics, image and video.

Multimode fiber
Optical fibers that have a large core and that permit non-axial rays or modes to propagate through the core.

Network architecture
Network topology and design.

Network interface cards (NICs)
The piece of equipment that is installed into the expansion port of a personal computer and allows communication between the PC and the network.

Network layer
The network layer is layer 3 of the OSI model. This layer sets up an end-to-end connection across a network determining which permutation of individual links to be used. Thus the network layer performs overall routing functions.

Node(s)
A piece of communications equipment on the network.

Noise
The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise become.

Open system interconnection (OSI)
A conceptual model specified by CCITT recommendations in the X200 series. The model describes the 7-layer process of communication between co-operating computers. The model provides a standard for the development of communication protocols allowing for computers of different manufacturers to be interconnected.

Optical fiber
A transmission medium consisting of a core of glass or plastic surrounded by a protective cladding. Signals are transmitted as light pulses, introduced into the fiber by a light transmitter (i.e. Laser or an LED).

Outlets
A term used to describe the sockets provided in the work location of a structured cabling system. These are usually 8-pin modular sockets which can support a variety of services (i.e. voice, video and data).

PABX
Private Automatic Branch Exchange. A private switching system that switches calls both internally within a building or premises and outside to the telephone network.

Packet switching
A type of exchange or network which conveys a string of information from origin to destination by cutting it up into a number of packets and carrying each independently. A packet-switched effect could be achieved by sending individual pages of a book through the post separately. The receiving device re-assembles the message. Thus a direct connection between origin and destination does not exist at any point.

Patch cord(s)
Flexible cable unit or element with connector(s), used to establish connections on a patch panel.

Patch panel(s)
Termination and administration hardware designed to accommodate the use of patch cords. It facilitates administration for moves and changes.

Pathway(s)
Designated cable routes and/or support structures in a false floor or ceiling.

Peripheral(s)
Additions to a system, a resource (i.e. printer, scanner, etc).

Physical layer
Layer 1 of the open systems interconnection (OSI) model. The physical layer protocol is the hardware and software in the line terminating device which converts the databits needed by the datalink layer into the electrical pulses, modem tones, optical signals or other means which will transmit the data.

Physical topology
Physical cabling layout (i.e. ring, bus, star wired etc).

Ports
A computer interface capable of transmitting and or receiving information.

PowerSum
A method of testing and measuring crosstalk in multi-pair cables that accounts for the sum of crosstalk affecting a pair when all other pairs are active. This is the only method of specifying crosstalk performance that is suited to cables with more than four pairs.

Presentation
Layer 6 of the OSI model. Responsible for identifying the syntax of layer the data being transmitted.

Proprietary
Systems that are not standards specific and therefore are not interoperable with standards based equipment.

Proprietary networks
Networks that are not designed or installed to standard based guidelines and do not relate specifically to any relevant standard.

Protocol(s)
A rule of procedure by which computer devices intercommunicate. Thus a protocol is the equivalent of a human language, with punctuation and grammatical rules.

Public network interface
A point of demarcation between public and private network. In many cases the public network interface is the point of connection between the network provider's facilities and the customer premises cabling.

Raceway
Any distribution method designed for holding cables, (i.e. conduit, metal or plastic trunking, cable trays, etc).

Redundancy risers
A fail-safe method of splitting and routing riser/backbone cables via two or more riser cores. Also known as diverse routing.

Ring
A closed loop network topology.

Riser(s)
The term used to describe a space utilized by backbone cabling to house communications cabling and other building services. This space should preferably be specified, or allowed for, at the time of the building design.

Router(s)
An intermediate system between two or more networks capable of forwarding data packets at the network layer (layer 3).

Scaleable
The ability to adapt to different bit rates.

Screened cable
See foil screened twisted pair cable.

Serial communications
See serial data transmission.

Serial data transmission
Data transmission between computer devices using only a single circuit path. Whole bytes of information (8 bits) are sent in sequential pattern. Compares with parallel transmission. Parallel transmission is often used internally within computing devices because of the higher processing speeds which are possible, but for long-distance telecommunication, serial transmission is more economic in terms of line plant.

Serial port(s)/transmission
Normally a DB 9-pin connector located on the mother board of a PC. A technique in which each bit of information is sent sequentially on a single channel.

Server(s)
Host computer(s).

Session layer
Layer 5 of the OSI model. Responsible for establishment and control of dialogues between users on different machines. Synchronization for reliable data transfer and token management to control use of the connection are services provided by this layer.

Shielded twisted pair cable (STP)
An electrically conducting cable comprising one or more elements each of which is individually shielded. There may be an overall shield in which case the cable is referred to as a shielded twisted pair cable with an overall shield.

Signal to noise ratio (SNR)
The ratio of the signal magnitude to the noise magnitude and is usually expressed in dB. The higher the SNR of a system, the better is its performance.

Simplex
A transmission means allowing only one direction of transmission. (i.e. public broadcast radio.)

Single-mode
Optical fiber with a small core diameter in which only single-mode is capable of propagation. 8.3 micron is the common standard core size.

Splice
A joining of conductors or fibers, generally from separate cables.

Star
A physical point to point network topology.

Star physical topology
See Star.

Star quad
A cable element which comprises four insulated conductors twisted together. Two diametrically facing conductors from a transmission pair.

Star topology
See Star.

Storage Area Network (SAN)
A high speed network or subnetwork of shared storage devices.

STP
See shielded twisted pair cable.

Structured cabling
Flexible cabling scheme which allows rapid reconfiguration for office moves through patching.

Switching
A function carried out by a switching hub, alleviating traffic by making virtual connections between transmitting and receiving nodes.

Synchronization
The method by which the bit patterns appearing on digital line systems may be properly clocked and interpreted - allowing the beginning of particular patterns and frame formats to be correctly identified.

Synchronous
Signals that are sourced from the same timing reference and hence are identical in frequency.

Synchronous data transfer
Data transfer employing synchronized transmit and receive clocks, rather than using start and stop bits to distinguish character patterns from idle line operation.

Telecommunications
A branch of technology concerned with the transmission, emission and reception of signs, signals, writing, images and sounds; that is, information of any nature by cable, radio, optical or other electromagnetic systems.

Telecommunications closet
An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling. The telecommunications closet is a recognized cross-connect point between the backbone and horizontal cabling subsystems.

Telecommunications outlet
A socket where the horizontal cable terminates. The telecommunications outlet provides the interface to the work area cabling.

Thick coax
The transmission medium used for Ethernet or IEEE 802.3 10BASE-2 LANs. It is a 50 ohm thick coax cable (commonly referred to as the thick yellow cable).

Token ring
The transmission medium used for IEEE 802.3 10BASE-2 LANs (sometimes referred to as CheaperNet). It is a 50 ohm thin coax cable.

Token ring LAN
A 4 or 16 Mbps LAN standard based on token passing access protocol originally developed by IBM. Sometimes referred to as IEEE 802.5 or ISO 8802-5 standard.

Topology
The physical or logical configuration of a telecommunications system.

TP-PMD
Twisted Pair Physical Medium Dependant. A twisted pair version of the FDDI standard that allows 100 Mbps transmission over Category 5 copper cable.

Transducer
A sensing device that converts a signal from one form to another (i.e. mechanical to electrical).

Transport layer
Layer 4 of the OSI model. The transport layer provides for end-to-end data relaying service across any type of data network and is responsible for end-to-end reliability.

Twinaxial cable (TWINAX)
Twinaxial cable is similar to coax except that the center of the cable contains a twisted pair rather than a single conductor.

Twisted pair(s)
A cable element which consists of two insulated conductors twisted together in a determined fashion to form a balanced transmission line.

Unshielded twisted pair cable
An electrically conducting cable comprising one or more pairs none of which is shielded.

U/UTP
See unshielded twisted pair cable.

VCSEL
Vertical Cavity Surface Emitting Laser

Video conferencing
Real time communications via video between two or more users at separate locations.

Wide area networks (WANS)
Networks that are linked across a large geographical area generally using leased lines from a public operator.

Wireless LAN
Local area network that communicates using radio technology.

Work area
A building space where the occupants interact with telecommunications terminal equipment. A user's work area which is typically 9 sq. meter or 100 sq. ft.

Work area cable
A cable connecting the telecommunications outlet to the terminal equipment.

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