

PACKAGING & SHIPPING INFORMATION



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Copper Cable Packaging

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				

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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.

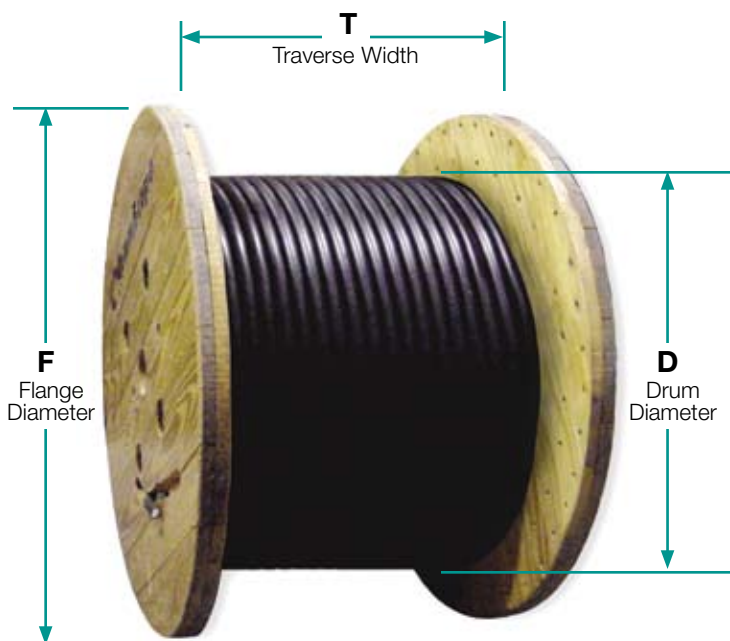
Each reel is plainly marked to indicate the direction in which it should be rolled to prevent loosening of the cable on the reel.

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 on location 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

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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

Fiber Optic Cable Packaging

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

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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	15,103	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

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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	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	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	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	FT	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	42x24x25	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	FT	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	42x22x29.75	48x22x32.5	54x24x28	60x30x32	66x30x32	72X36X36	78X36X36
	FT	FT	FT	FT	FT	FT	FT	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

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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

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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 technology 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 components (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).

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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).

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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.

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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.

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Star quad

A cable element which comprises four insulated conductors twisted together. Two diametrically facing conductors form 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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