

TrueNet® Fiber Optic Cable

Compact Building Cables: Armored Plenum



ADC's armored plenum compact building cables are designed for use in backbone or horizontal cabling applications. Constructions above 24 fibers are available with 12 fibers subgroups (up to 144 fibers total).

Features:

- Interlocking aluminum armor
- TrueNet® technology to improve cable performance (up to 144 fibers)
- Constructions above 24 fibers feature 12 fiber subunits

Applications:

- Backbone distribution cabling
- Raised floor installations
- Industrial environments

Compliances:

- Telcordia GR-409-CORE, EIA/TIA FOTP's
- ANSI/TIA 568-C
- NFPA 262, NEC OFCP, FT-6

SPEC SHEET



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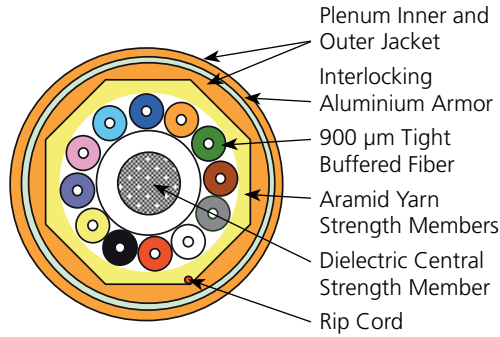


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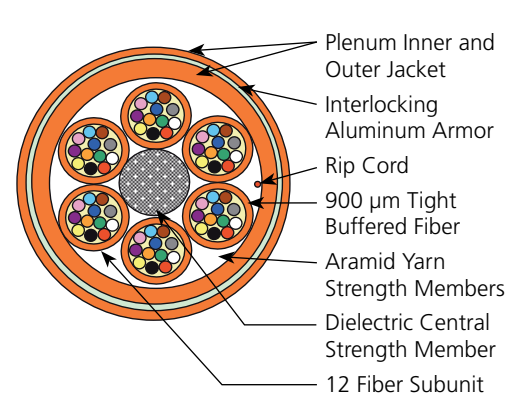
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Specifications

12 Fiber Cable



72 Fiber Cable



ENVIRONMENTAL CHARACTERISTICS

Storage Temperature:	-40° to 70° C (-40° to 158° F)
Operating Temperature:	-20° to 70° C (-4° to 158° F)
Installation Temperature:	0° to 70° C (32° to 158° F)

MECHANICAL CHARACTERISTICS

Part Number	Diameter		Weight		Minimum Bend Radius				Maximum Pulling Load			
					Loaded		Installed		Short Term		Long Term	
	mm	in	Kg/km	lb/1000ft	mm	in	mm	in	N	lbf	N	lbf
6004LFPCBAYYY	14.5	0.57	201	135	218	8.6	145	5.7	1000	224	300	67
6006LFPCBAYYY	14.5	0.57	210	141	218	8.6	145	5.7	1000	224	300	67
6008LFPCBAYYY	14.5	0.57	223	150	218	8.6	145	5.7	1000	224	300	67
6012LFPCBAYYY	14.5	0.57	240	161	218	8.6	145	5.7	1800	403	600	135
6018LFPCBAYYY	14.5	0.57	240	161	218	8.6	145	5.7	1800	403	600	135
6024LFPCBAYYY	15.7	0.62	310	208	236	9.3	157	6.2	1800	403	600	135
6036LFPCBAYYY	22.1	0.87	449	302	332	13.1	221	8.7	2700	604	1000	224
6048LFPCBAYYY	24.6	0.97	628	422	369	14.6	246	9.7	2700	604	1000	224
6072LFPCBAYYY	25.9	1.02	710	477	389	15.3	259	10.2	2700	604	1000	224
6096LFPCBAYYY	29.7	1.17	778	523	446	17.6	297	11.7	2700	604	1000	224
6144LFPCBAYYY	32.2	1.27	987	663	483	19.1	322	12.7	2700	604	1000	224

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Optical Performance

	Maximum Attenuation (dB/km)	Typical Attenuation (dB/km)	Guaranteed Minimum bandwidth (MHz/km)
Multimode	850 nm/1300 nm	850 nm/1300 nm	850 nm/1300 nm
62.5/125	3.5/1.5	3.0/1.0	200 ¹ /500 ¹
50/125 μm	3.0/1.5	2.5/1.0	700 ¹ /500 ¹
50/125 μm ultra 300	3.0/1.5	2.5/1.0	2000 ² /500 ¹
50/125 μm ultra 550	3.0/1.5	2.5/1.0	4700 ² /500 ¹
	1310 nm/1550 nm	1310 nm/1550 nm	1310 nm/1550 nm
Singlemode	1.0/1.0	0.4/0.3	NA

¹Bandwidth specified by overfilled launch (OFL)

²Bandwidth specified by laser-based launch

Guaranteed Ethernet Transmission Performance

	Fast Ethernet 100Mbps	Gigabit Ethernet 1Gbps	10 Gigabit Ethernet 10Gbps
Multimode	850 nm/1300 nm	850 nm/1300 nm	850 nm/1300 nm
62.5/125 μm	300 m/2 km	275 m/550 m	33 m/300 m ¹
50/125 μm	300 m/2 km	750 m/2000 m	150 m/300 m ¹
50/125 μm ultra 300	300 m/2 km	1100 m/550 m	300 m/300 m ¹
50/125 μm ultra 550	300 m/2 km	1100 m/550 m	550 m/300 m ¹
	1310 nm/1550 nm	1310 nm/1550 nm	1310 nm/1550 nm
Singlemode	2 km/NA	5 km/NA	10 km/40 km

¹10 Gigabit Ethernet distance guarantees at 1300 nm are achieved via four 3.125 Gbps channels multiplexed with WDM technology (10GBASE-LX4)

Ordering Information

Fibers	Diameter		Weight		Catalog Number*
	mm	in	kg/km	lb/1000 ¹	
4	14.5	0.57	201	135	6004LFPCBAYYY
6	14.5	0.57	210	141	6006LFPCBAYYY
8	14.5	0.57	223	150	6008LFPCBAYYY
12	14.5	0.57	240	161	6012LFPCBAYYY
18	14.5	0.57	240	161	6018LFPCBAYYY
24	15.7	0.62	310	208	6024LFPCBAYYY
36	22.1	0.87	449	302	6036LFPCBAYYY
48	24.6	0.97	628	422	6048LFPCBAYYY
72	25.9	1.02	710	477	6072LFPCBAYYY
96	29.7	1.17	778	523	6096LFPCBAYYY
144	32.2	1.27	987	663	6144LFPCBAYYY

*Replace YYY with fiber type:

010 = Singlemode

062 = 62.5/125 µm multimode

50E = 50/125 µm multimode/orange jacket

50U = 50/125 µm ultra multimode laser optimized to 300 meters

5U5 = 50/125 µm ultra multimode laser optimized to 550 meters

Note: Steel armor available by special quote

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Website: www.adc.com

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