



Fiber Optic Cable Solutions



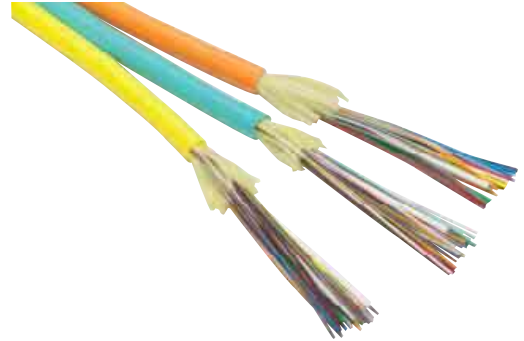
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Fiber Optic Cable Solutions

Introduction

ADC's TrueNet Fiber Optic Solutions offers a complete family of high performance singlemode and multimode cables, including Indoor/Outdoor cables, Compact Building cables, Armored versions, and patch cord/pigtail cables. All cable is produced by highly automated manufacturing processes and each fiber is tested to specifications after cabling to ensure consistent quality and dependability.



All multimode fibers exceed IEEE 802.3z standards for Gigabit Ethernet performance. Fiber cable solutions also support IEEE 802.3ae standards for 300 meter 10Gbps applications as well as 550 meter 10Gbps applications. Advanced construction techniques simplify termination and allow faster installation. Each fiber cable offers low attenuation for optimum signal reliability while offering excellent crush, cut and abrasion resistance. The following are the TrueNet fiber cable solutions; additional fiber cable options are available in ADC's Fiber Cable catalog.

Features

- Each fiber tested to specifications after cabling
- Each fiber type available in all standard ADC cable designs
- All multimode fiber types exceed Gigabit Ethernet industry standards (IEEE 802.3z)
- Ultra 50µm fiber is laser-optimized for 300 meter 10Gbps applications (IEEE 802.3ae)
- Ultra 50µm fiber for 550 meter 10Gbps applications is also available



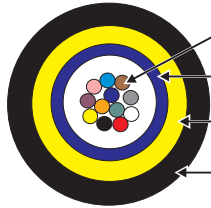
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Indoor/Outdoor Cable

Dry Loose Tube Cables:

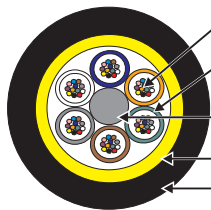
Riser and Plenum Listed OFNR/FT-4 and OFNP/FT-6 c(ETL)us

Indoor/Outdoor Dry Loose Tube (up to 12 fibers)



- 250 µm UV Colored Optical Fiber
- 3.0 mm (.12") Thermoplastic Tube Drygel Water Blocked
- Strength Member
- Flame Retardant Outer Jacket

Indoor/Outdoor Dry Loose Tube (up to 144 fibers)



- 250 µm UV Colored Optical Fiber
- 3.0 mm (.12") Thermoplastic Tube Drygel Water Blocked
- Central Strength Member
- Strength Member
- Flame Retardant Outer Jacket
- Rip Cord

Features

- Dry cable core and dry buffer tubes provide effective water blocking without the need for traditional gel filler
- Can be placed anywhere in the network, bypassing transition points from outdoor to indoor
- Installation times reduced because there is no need to clean gels
- Excellent flame retardancy
- Flexible design for easy installation
- Color-coded buffer tubes and fibers
- Wide operating temperature: -40° to +75° C (-40° to +167° F)

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

Ordering information follows on the next page.

6/10 • 102094AE TrueNet® Structured Cabling

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Indoor/Outdoor Cable

Dry Loose Tube Cables:

Riser and Plenum Listed OFNR/FT-4 and OFNP/FT-6 c(ETL)us

Guaranteed Ethernet Transmission Performance

	Fast Ethernet 100 Mbps	Gigabit Ethernet 1 Gbps	10 Gigabit Ethernet 10 Gbps
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/500 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

UL Type	Fibers	Diameter		Weight		Catalog Number*
		mm	in	kg/km	lb/1000'	
Dry loose tube: in/outdoor riser	6	6.5	.255	43	29	QXXXDLTIORYYY
	12	6.5	.255	43	29	
	24	10.1	.396	82	55	
	48	10.1	.396	82	55	
	72	11.9	.467	111	75	
	144	17.8	.700	252	169	
Dry loose tube: in/outdoor plenum	6	6.6	.26	48	32	QXXXDLTIOPYYY
	12	6.6	.26	48	32	
	24	6.2 x 12.6	.245 x .495	80	54	
	48	9.4	.37	82	55	
	72	11.7	.46	101	68	
	144	17.5	.69	315	212	

*Replace XXX with fiber count. Replace YYY with fiber type:

010 = Singlemode
062 = 62.5/125 μm Multimode
50E = 50/125 μm multimode

50U = 50/125 μm Ultra multimode laser
optimized to 300 m
5U5 = 50/125 μm Ultra multimode laser
optimized to 550 m

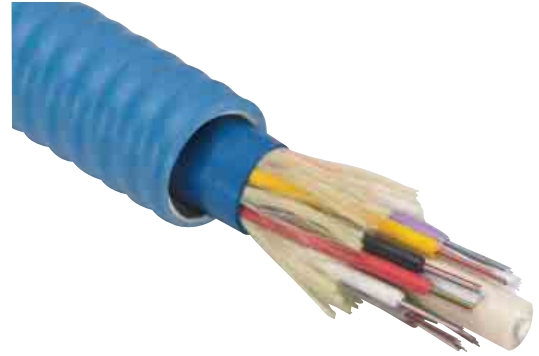


Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Plenum

ADC's line of indoor/outdoor armored loose tube cables are designed to meet all the rigors of the outside plant environment, and have the necessary fire ratings to be installed inside the building. These cables eliminate the messy gel filler of traditional loose tube style cables with super absorbent polymers. The installer can place the cable anywhere in the network, bypassing the traditional transition points required in most installations. Cables are available with fiber counts from 6 to 144.



Features

- No cleaning of gels, greatly reduces installation time
- Reduces labor costs by eliminating transition points at the demarcation
- Can be used outdoors or indoors in plenum areas

Applications

- Between buildings in a campus environment
- Plenum rated environments
- Raised computer floors
- Outside plant environments

Compliances

- Telcordia GR-20-CORE
- Telcordia GR-409-CORE
- EIA/TIA FOTPs
- ETL, (UL) 910, NEC OFCP, FT-6
- ISO/IEC 11801
- TIA/EIA 568-B.3



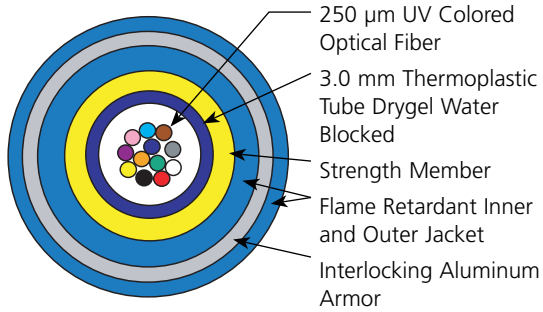
Fiber Optic Cable Solutions

Indoor/Outdoor Cable

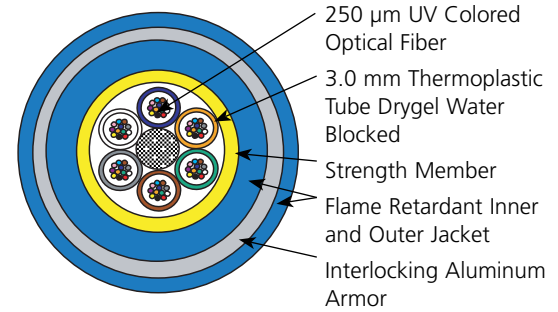
Armored Dry Loose Tube Cables: Plenum

Specifications

12 FIBER CABLE



72 FIBER CABLE



ENVIRONMENTAL CHARACTERISTICS

Storage Temperature: -40° to 85 °C (-40° to 180 °F)
Operating Temperature: -40° to 75 °C (-40° to 167 °F)
Installation Temperature: 0° to 60 °C (-32° to 140 °F)

MECHANICAL CHARACTERISTICS

Fiber Count	Diameter (in)	Weight lb/1000 ft	Maximum Bend Radius (in)		Maximum Tensile Load (lbf)	
			Short Term (Install)	Long Term	Short Term (Install)	Long Term
6	0.614	138	9.2	6.1	300	90
12	0.614	140	9.2	6.1	300	90
24	0.765	257	11.5	7.7	600	180
36	0.765	257	11.5	7.7	600	180
48	0.765	257	11.5	7.7	600	180
72	0.765	257	11.5	7.7	600	180
96	0.821	275	12.3	8.21	600	200
144	0.972	350	14.6	9.7	600	200



Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Plenum

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)



Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Plenum

Ordering Information

Fiber Count	Catalog Number*
6	Q006DLTIAPXXX
8	Q008DLTIAPXXX
12	Q012DLTIAPXXX
24	Q024DLTIAPXXX
36	Q036DLTIAPXXX
48	Q048DLTIAPXXX
72	Q072DLTIAPXXX
96	Q096DLTIAPXXX
144	Q144DLTIAPXXX

*Replace XXX 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

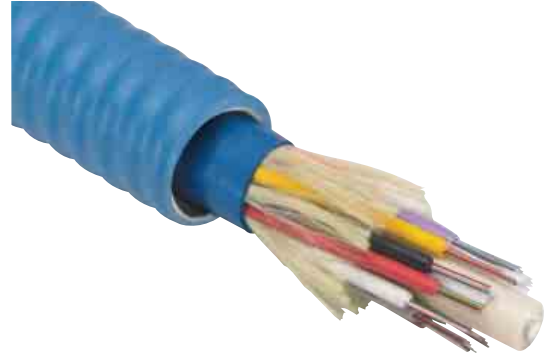


Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Riser

ADC's innovative line of indoor/outdoor armored loose tube cables are designed to meet all the rigors of the outside plant environment and have the necessary fire ratings to be installed inside the building. These cables eliminate the messy gel filler of traditional loose tube style cables with super absorbent polymers. The installer can place the cable anywhere in the network, bypassing the traditional transition points required in most installations. Cables are available with fiber counts from 2 to 144 fibers.



Features

- No cleaning of gels, greatly reduces installation time
- Reduces labor costs by eliminating transition points at the demarcation
- Can be used outdoors or indoors in riser areas

Compliances

- Telcordia GR-20-CORE
- Telcordia GR-409-CORE
- EIA/TIA FOTPs
- ETL, (UL) 1666, NEC OFCR, FT-4
- ISO/IEC 11801
- EIA/TIA 568B

Applications

- Between buildings in a campus environment
- Riser rated environments
- Outside plant environments



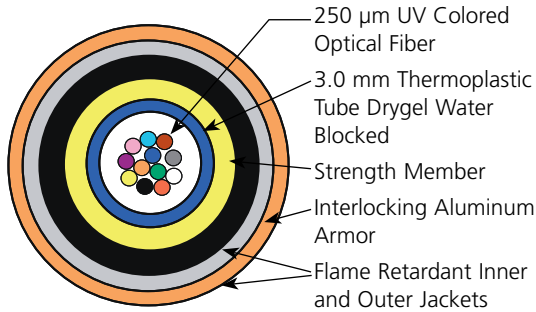
Fiber Optic Cable Solutions

Indoor/Outdoor Cable

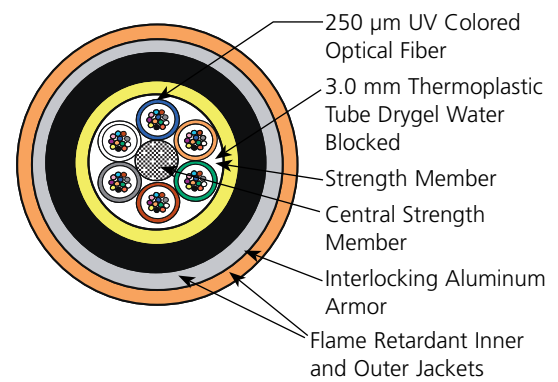
Armored Dry Loose Tube Cables: Riser

Specifications

12 FIBER CABLE



72 FIBER CABLE



ENVIRONMENTAL CHARACTERISTICS

Storage Temperature:	-40° to 85 °C (-40° to 185 °F)
Operating Temperature:	-40° to 75 °C (-40° to 167 °F)
Installation Temperature:	-20° to 60 °C (-4° to 140 °F)

MECHANICAL CHARACTERISTICS

Fiber Count	Diameter (in)	Weight lb/1000 ft	Maximum Bend Radius (in)		Maximum Tensile Load (lbf)	
			Short Term (Install)	Long Term	Short Term (Install)	Long Term
6	0.614	138	9.2	6.1	300	90
12	0.614	140	9.2	6.1	300	90
24	0.765	257	11.5	7.7	600	180
36	0.765	257	11.5	7.7	600	180
48	0.765	257	11.5	7.7	600	180
72	0.765	257	11.5	7.7	600	180
96	0.821	275	12.3	8.21	600	200
144	0.972	350	14.6	9.7	600	200



Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Riser

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)



Fiber Optic Cable Solutions

Indoor/Outdoor Cable

Armored Dry Loose Tube Cables: Riser

Ordering Information

Fibers	Diameter		Weight		Catalog Number*
	mm	in	kg/km	lb/1000'	
6	14.5	0.57	214	144	Q006DLTIARXXX
8	14.5	0.57	214	144	Q008DLTIARXXX
12	14.5	0.57	214	144	Q012DLTIARXXX
24	20.8	0.82	856	261	Q024DLTIARXXX
36	20.8	0.82	856	261	Q036DLTIARXXX
48	20.8	0.82	856	261	Q048DLTIARXXX
72	20.8	0.82	856	261	Q072DLTIARXXX
96	22.1	0.87	919	280	Q096DLTIARXXX
144	25.9	1.02	1502	458	Q144DLTIARXXX

*Replace XXX with fiber type:

010 = Singlemode

062 = 62.5/125 µm Multimode

50E = 50/125 µm Multimode

50U = 50/125 µm Ultra Multimode laser optimized to 300 m

5U5 = 50/125 µm Ultra Multimode laser optimized to 550 m



Fiber Optic Cable Solutions

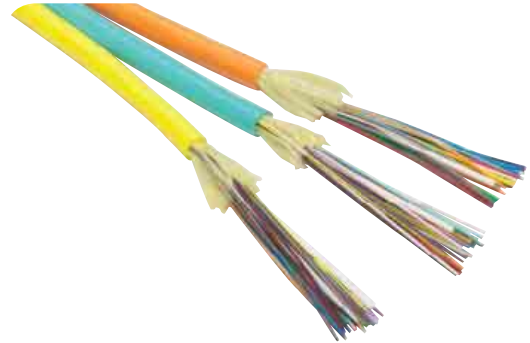
Compact Building™ Cable

OFNP/FT-6 c(UL)us Plenum Cable

6/10 • 102094AE TrueNet® Structured Cabling

Features

- 900µm tight buffered fibers designed for one-pass mechanical stripping
- Constructions above 24 fibers feature 12 fiber subunits
- All-dielectric construction includes aramid yarn tensile strength members
- Easy-to-strip outer jacket
- Features TrueNet technology to improve cable performance (up to 24 fibers)



Applications

- Between main cross-connects and telecommunications room
- Horizontal cable runs from cross-connect to telecommunications room
- Areas requiring (UL) listed flame retardant cables
- Horizontal cable runs from telecommunications rooms to consolidation points

Compliances

- Telcordia GR-409-CORE, EIA/TIA FOTPs
- TIA/EIA 568-B
- (UL) 910, NEC OFNP, FT-6

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

Ordering information follows on the next page

Fiber Optic Cable Solutions

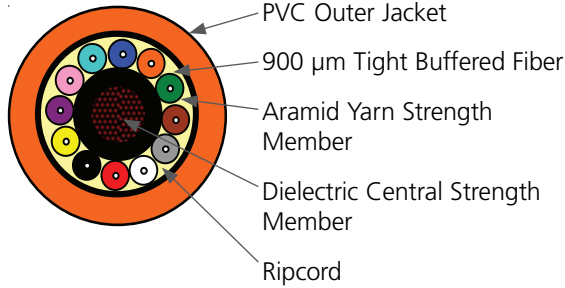


Fiber Optic Cable Solutions

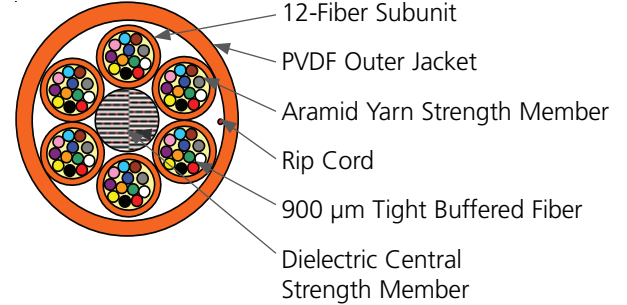
Compact Building™ Cable

OFNP/FT-6 c(UL)us Plenum Cable

12-Fiber Cable



72-Fiber Cable



Guaranteed Ethernet Transmission Performance

	Fast Ethernet 100 Mbps	Gigabit Ethernet 1 Gbps	10 Gigabit Ethernet 10 Gbps
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
	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		Minimum Bend Radius				Catalog Number*
	mm	in	kg/km	lb/1000'	Loaded		Installed		
	mm	in	kg/km	lb/1000'	mm	in	mm	in	
4	4.1	0.16	34	23	81.3	3.2	40.6	1.6	6004AIPCBCYYY
6	4.8	0.19	43	29	96.5	3.8	48.3	1.9	6006AIPCBCYYY
8	5.3	0.21	59	40	106.7	4.2	53.3	2.1	6008AIPCBCYYY
12	6.4	0.25	73	49	127	5.0	63.5	2.5	6012AIPCBCYYY
18	6.4	0.25	73	49	127	5.0	63.5	2.5	6018AIPCBCYYY
24	7.4	0.29	125	84	147.3	5.8	73.7	2.9	6024AIPCBCYYY
36	13.5	0.53	171	115	269.2	10.6	134.6	5.3	6036PTFCBCYYY
48	16.3	0.69	261	176	325.1	12.8	162.6	6.4	6048PTFCBCYYY
72	19.1	0.75	322	216	381	15	190.5	7.5	6072PTFCBCYYY
96	22.9	0.90	325	218	457.2	18	228.6	9.0	6096PTFCBCYYY
144	23.4	0.92	474	319	467.4	18.4	233.7	9.2	Q144PTHCBYYY

*Replace YYY with fiber type:

010 = Singlemode

062 = 62.5/125 µm Multimode

50E = 50/125 µm multimode

50U = 50/125 µm Ultra multimode laser optimized to 300 m

5U5 = 50/125 µm Ultra multimode laser optimized to 550 m



Fiber Optic Cable Solutions

Compact Building™ Cable

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

Compliances

- Telcordia GR-409-CORE, EIA/TIA FOTP's
- TIA/EIA 568-B
- (UL) 1666, NEC OFCR, FT-4

Applications

- Backbone distribution cabling
- Raised floor installations
- Industrial environments

6/10 • 102094AE TrueNet® Structured Cabling

Fiber Optic Cable Solutions



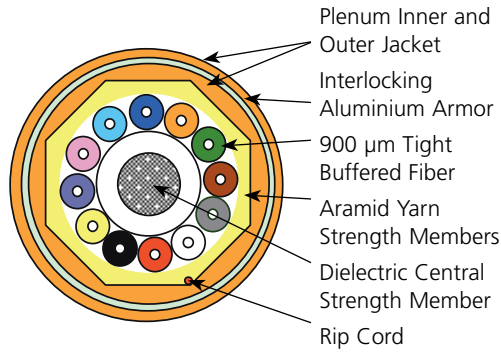
Fiber Optic Cable Solutions

Compact Building™ Cable

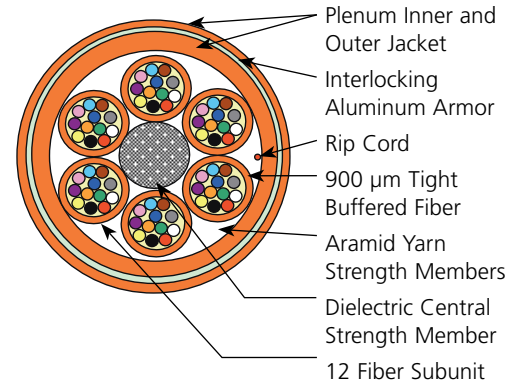
Armored Plenum

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
6004AIPCBAYYY	14.5	0.57	201	135	290	11.6	145	5.8	1000	224	300	67
6006AIPCBAYYY	14.5	0.57	210	141	290	11.6	145	5.8	1000	224	300	67
6008AIPCBAYYY	14.5	0.57	223	150	290	11.6	145	5.8	1000	224	300	67
6012AIPCBAYYY	14.5	0.57	240	161	290	11.6	145	5.8	1800	403	600	135
6018AIPCBAYYY	14.5	0.57	240	161	290	11.6	145	5.8	1800	403	600	135
6024AIPCBAYYY	15.7	0.62	310	208	314	12.4	157	6.2	1800	403	600	135
6036PTFCBAYYY	22.1	0.87	449	302	442	17.4	221	8.7	2700	604	1000	224
6048PTFCBAYYY	24.6	0.97	628	422	492	19.4	246	9.7	2700	604	1000	224
6072PTFCBAYYY	25.9	1.02	710	477	518	20.4	259	10.2	2700	604	1000	224
6096PTFCBAYYY	29.7	1.17	778	523	594	23.4	297	11.7	2700	604	1000	224
Q144PTHCBAYYY	32.2	1.27	987	663	644	25.4	322	12.7	2700	604	1000	224



Fiber Optic Cable Solutions

Compact Building™ Cable

Armored Plenum

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)

6/10 • 102094AE TrueNet® Structured Cabling

Fiber Optic Cable Solutions



Fiber Optic Cable Solutions

Compact Building™ Cable

Armored Plenum

Ordering Information

Fibers	Diameter		Weight		Catalog Number*
	mm	in	kg/km	lb/1000'	
4	14.5	0.57	201	135	6004AIPCBAYYY
6	14.5	0.57	210	141	6006AIPCBAYYY
8	14.5	0.57	223	150	6008AIPCBAYYY
12	14.5	0.57	240	161	6012AIPCBAYYY
18	14.5	0.57	240	161	6018AIPCBAYYY
24	15.7	0.62	310	208	6024AIPCBAYYY
36	22.1	0.87	449	302	6036PTFCBAYYY
48	24.6	0.97	628	422	6048PTFCBAYYY
72	25.9	1.02	710	477	6072PTFCBAYYY
96	29.7	1.17	778	523	6096PTFCBAYYY
144	32.2	1.27	987	663	Q144PTHCBAYYY

*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

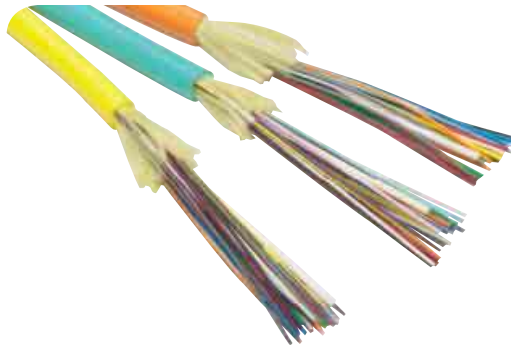
Note: Steel armor available by special quote



Fiber Optic Cable Solutions

Compact Building™ Cable

OFNR/FT-4 c(UL)us Riser Cable



6 / 1 0 • 1 0 2 0 9 4 A E TrueNet® Structured Cabling

Features

- 900 µm tight buffered fibers designed for one-pass mechanical stripping
- Constructions above 24 fibers feature subunits
- All-dielectric construction includes aramid yarn tensile strength members
- Features AirES® technology to improve cable performance (up to 24 fibers)

Compliances

- Telcordia GR-409-CORE, EIA/TIA FOTP standards
- TIA/EIA 568-B
- (UL) 1666, NEC OFNR, FT-4

Applications

- Designed for use in backbone or horizontal cable applications
- Vertical cable runs from cross-connects to telecommunication rooms
- Vertical cable runs from telecommunication rooms to consolidation points

Armored constructions are available. Please contact your ADC representative.

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

Ordering information follows on the next page.

Fiber Optic Cable Solutions

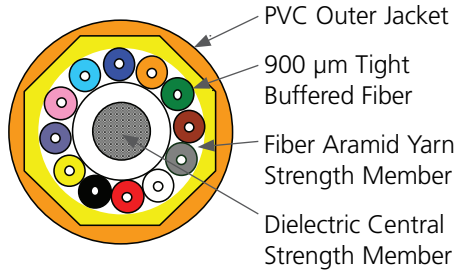


Fiber Optic Cable Solutions

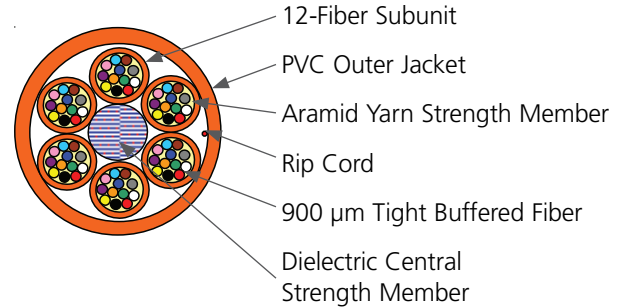
Compact Building™ Cable

OFNR/FT-4 c(UL)us Riser Cable

12-Fiber Cable



72-Fiber Cable



Guaranteed Ethernet Transmission Performance

	Fast Ethernet 100 Mbps	Gigabit Ethernet 1 Gbps	10 Gigabit Ethernet 10 Gbps
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		Minimum Bend Radius				Catalog Number*
	mm	in	kg/km	lb/1000'	Loaded		Installed		
	mm	in	kg/km	lb/1000'	mm	in	mm	in	
4	4.6	0.18	37	21	91.4	3.6	45.7	1.8	6004AIRCBCYYY
6	5.3	0.21	43	24	106.7	4.2	53.3	2.1	6006AIRCBCYYY
8	6.1	0.24	59	38	121.9	4.8	61.0	2.4	6008AIRCBCYYY
12	7.4	0.29	73	43	147.3	5.8	73.7	2.9	6012AIRCBCYYY
18	7.4	0.29	73	43	147.3	5.8	73.7	2.9	6018AIRCBCYYY
24	8.1	0.32	125	66	162.6	6.4	81.3	3.2	6024AIRCBCYYY
36	17.0	0.67	262	176	340.4	13.4	170.2	6.7	6036LFRBCBCYYY
48	19.6	0.77	307	206	396.2	15.6	195.6	7.7	6048LFRBCBCYYY
72	21.1	0.83	414	278	421.6	16.6	210.8	8.3	6072LFRBCBCYYY
96	22.4	0.88	399	268	447.0	17.6	223.5	8.8	6096LFRBCBCYYY
144	23.9	0.94	430	289	477.5	18.8	238.8	9.4	6144LFRBCBCYYY

*Replace YYY with fiber type:

010 = Singlemode

062 = 62.5/125 μm Multimode

50E = 50/125 μm multimode

50U = 50/125 μm Ultra multimode laser optimized for 300 m

5U5 = 50/125 μm Ultra multimode laser optimized for 550 m

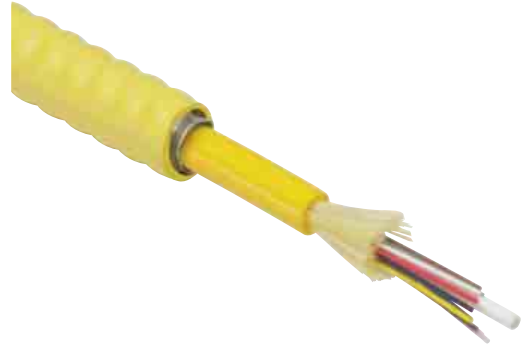


Fiber Optic Cable Solutions

Compact Building™ Cable

Armored Riser

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



Features

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

Compliances

- Telcordia GR-409-CORE, EIA/TIA FOTP's
- TIA/EIA 568-B
- (UL) 1666, NEC OFCR, FT-4

Applications

- Backbone distribution cabling
- Raised floor installations
- Industrial environments



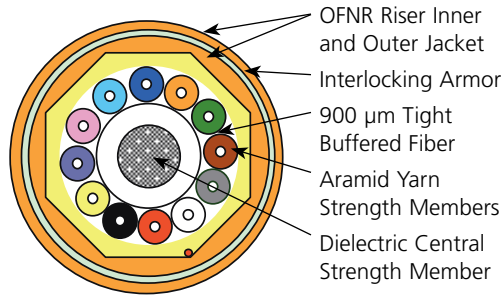
Fiber Optic Cable Solutions

Compact Building™ Cable

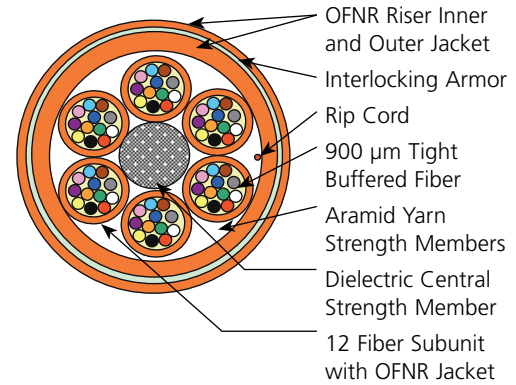
Armored Riser

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
6004AIRCBAYYY	14.5	0.57	198	133	290	11.6	145	5.8	1000	224	300	67
6006AIRCBAYYY	14.5	0.57	202	136	290	11.6	145	5.8	1000	224	300	67
6008AIRCBAYYY	14.5	0.57	223	150	290	11.6	145	5.8	1000	224	300	67
6012AIRCBAYYY	15.7	0.62	250	168	314	12.4	157	6.2	1800	403	600	135
6018AIRCBAYYY	15.7	0.62	250	168	314	12.4	157	6.2	1800	403	600	135
6024AIRCBAYYY	17.0	0.67	302	203	340	13.4	170	6.7	1800	403	600	135
6036LFRCBAYYY	25.9	1.02	650	437	518	20.4	259	10.2	2700	604	1000	224
6048LFRCBAYYY	28.4	1.12	740	497	568	22.4	284	11.2	2700	604	1000	224
6072LFRCBAYYY	29.7	1.17	868	583	594	23.4	297	11.7	2700	604	1000	224
6096LFRCBAYYY	31.0	1.22	918	617	620	24.4	310	12.2	2700	604	1000	224
6144LFRCBAYYY	32.2	1.27	929	624	644	25.4	322	12.7	2700	604	1000	224



Fiber Optic Cable Solutions

Compact Building Cable

Armored Riser

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)



Fiber Optic Cable Solutions

Compact Building Cable

Armored Riser

Ordering Information

Fibers	Diameter		Weight		Catalog Number*
	mm	in	kg/km	lb/1000'	
4	14.5	0.57	198	133	6004AIRCBAYYY
6	14.5	0.57	202	136	6006AIRCBAYYY
8	14.5	0.57	223	150	6008AIRCBAYYY
12	15.7	0.62	250	168	6012AIRCBAYYY
18	15.7	0.62	250	168	6018AIRCBAYYY
24	17.0	0.67	302	203	6024AIRCBAYYY
36	25.9	1.02	650	437	6036LFRCBAYYY
48	28.4	1.12	740	497	6048LFRCBAYYY
72	29.7	1.17	868	583	6072LFRCBAYYY
96	31.0	1.22	918	617	6096LFRCBAYYY
144	32.2	1.27	929	624	6144LFRCBAYYY

*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