

# 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
- TIA/EIA 568-B
- (UL) 1666, NEC OFCR, FT-4

SPEC SHEET



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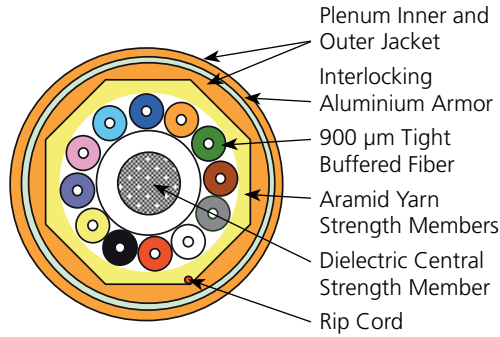


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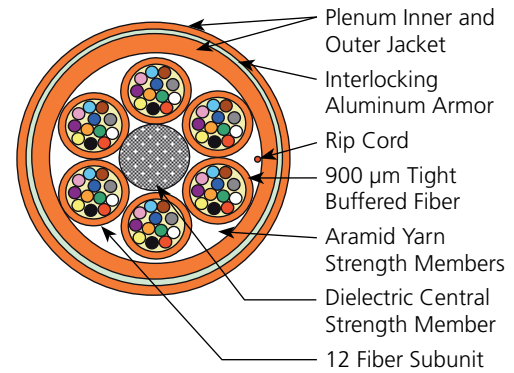
## Compact Building Cables: Armored Plenum

### Specifications

#### 12 FIBER CABLE



#### 72 FIBER CABLE



#### ENVIRONMENTAL CHARACTERISTICS

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

#### MECHANICAL CHARACTERISTICS

Number of Fibers	4-8	12-18	24	36	48	72	96	144
<b>Diameter mm (in)</b>	<b>14.5 (0.57)</b>	<b>14.5 (0.57)</b>	<b>15.7 (0.62)</b>	<b>22.1 (0.87)</b>	<b>24.6 (0.97)</b>	<b>25.9 (1.02)</b>	<b>29.7 (1.17)</b>	<b>32.2 (1.27)</b>
<b>Maximum Tensile Load N (ibf)</b>								
<b>Short Term (install):</b>	1000 (224)	1800 (403)	1800 (403)	2700 (604)	2700 (604)	2700 (604)	2700 (604)	2700 (604)
<b>Long Term:</b>	300 (67)	600 (135)	600 (135)	1000 (224)	1000 (224)	1000 (224)	1000 (224)	1000 (224)
<b>Minimum Bend Radius cm (in)</b>								
<b>Short Term (install):</b>	14.5 (5.8)	14.5 (5.8)	15.7 (6.2)	22.1 (8.7)	24.6 (9.7)	25.9 (10.2)	29.7 (11.7)	32.2 (12.7)
<b>Long Term:</b>	29.0 (11.6)	29.0 (11.6)	31.4 (12.4)	44.2 (17.4)	49.2 (19.4)	51.8 (20.4)	59.4 (23.4)	64.4 (25.4)

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OPTICAL PERFORMANCE	Maximum Attenuation (dB/km)	Typical Attenuation (dB/km)	Bandwidth <sup>1</sup> (MHz/km)	ISO/IEC Type
<b>Multimode</b>	<b>850 nm/1300 nm</b>	<b>850 nm/1300 nm</b>	<b>850 nm/1300 nm</b>	
<b>62.5/125</b>	3.5/1.5	3.0/1.0	200/500	OM1
<b>50/125</b>	3.5/1.5	3.0/1.0	500/500	OM2
<b>50/125 laser optimized to 300 meters</b>	3.5/1.5	3.0/1.0	1500/500 <sup>2</sup>	OM3
<b>50/125 laser optimized to 550 meters</b>	3.5/1.5	3.0/1.0	4700 <sup>2</sup> /500 <sup>1</sup>	OM3
	<b>1310 nm/1550 nm</b>	<b>1310 nm/1550 nm</b>	<b>1310 nm/1550 nm</b>	
<b>Singlemode</b>	1.0/1.0	0.4/0.3	N/A	OS1

<sup>1</sup>Bandwidth measurements specified overfilled launch conditions (OFL)

<sup>2</sup>Bandwidth measurements specified by laser launch

TRANSMISSION PERFORMANCE— Guaranteed Minimum Link Lengths	Gigabit Ethernet Link Length (SX/LX)	10 Gigabit Ethernet Link Length (SR/LX4) <sup>3</sup>
<b>Multimode</b>		
<b>62.5/125</b>	300 m/550 m	35 m/300 m
<b>50/125</b>	750 m/2000 m	150 m/300 m
<b>50/125 laser optimized to 300 meters</b>	900 m/550 m	300 m/300 m
<b>50/125 laser optimized to 550 meters</b>	1040 m/550 m	550 m/300 m <sup>1</sup>
		<b>(LR/ER)</b>
<b>Singlemode</b>	NA/5000 m	10 km/40 km

<sup>3</sup>10 Gigabit Ethernet distance guarantees at the long wavelength are achieved via four 3.125 Gbps channels multiplexed with Wideband Wave Division Multiplexing (WWDM) technology.

## Ordering Information

Fibers	Diameter		Weight		Catalog Number*
	mm	in	kg/km	lb/1000 <sup>1</sup>	
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  $\mu$ m multimode

50E = 50/125  $\mu$ m multimode/orange jacket

50U = 50/125  $\mu$ m multimode laser optimized to 300 meters

5U5 = 50/125  $\mu$ m multimode laser optimized to 550 meters

Note: Steel armor available by special quote

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### Web Site: [www.adc.com](http://www.adc.com)

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Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our Web site.

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