

# TrueNet® Fiber Optic Cable

Compact Building Cables: 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

## 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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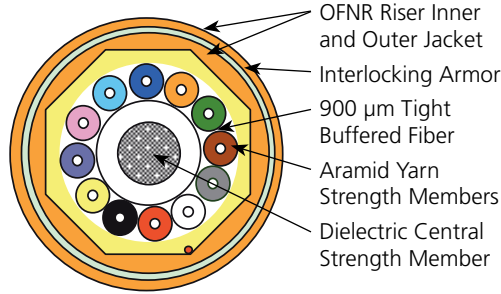


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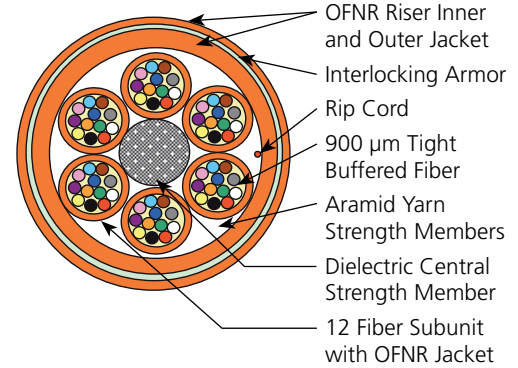
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## Specifications

### 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

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
6036LFRCAYYY	25.9	1.02	650	437	518	20.4	259	10.2	2700	604	1000	224
6048LFRCAYYY	28.4	1.12	740	497	568	22.4	284	11.2	2700	604	1000	224
6072LFRCAYYY	29.7	1.17	868	583	594	23.4	297	11.7	2700	604	1000	224
6096LFRCAYYY	31.0	1.22	918	617	620	24.4	310	12.2	2700	604	1000	224
6144LFRCAYYY	32.2	1.27	929	624	644	25.4	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)
<b>Multimode</b>	<b>850 nm/1300 nm</b>	<b>850 nm/1300 nm</b>	<b>850 nm/1300 nm</b>
62.5/125	3.5/1.5	3.0/1.0	200 <sup>1</sup> /500 <sup>1</sup>
50/125 μm	3.0/1.5	2.5/1.0	700 <sup>1</sup> /500 <sup>1</sup>
50/125 μm ultra 300	3.0/1.5	2.5/1.0	2000 <sup>2</sup> /500 <sup>1</sup>
50/125 μm ultra 550	3.0/1.5	2.5/1.0	4700 <sup>2</sup> /500 <sup>1</sup>
	<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	NA

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

<sup>2</sup>Bandwidth specified by laser-based launch

### Guaranteed Ethernet Transmission Performance

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

<sup>1</sup>10 Gigabit Ethernet distance guarantees at 1300 nm are achieved via four 3.125 Gbps channels multiplexed with WWDM technology (10GBASE-LX4)

## Ordering Information

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

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

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

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

SPEC SHEET



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

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