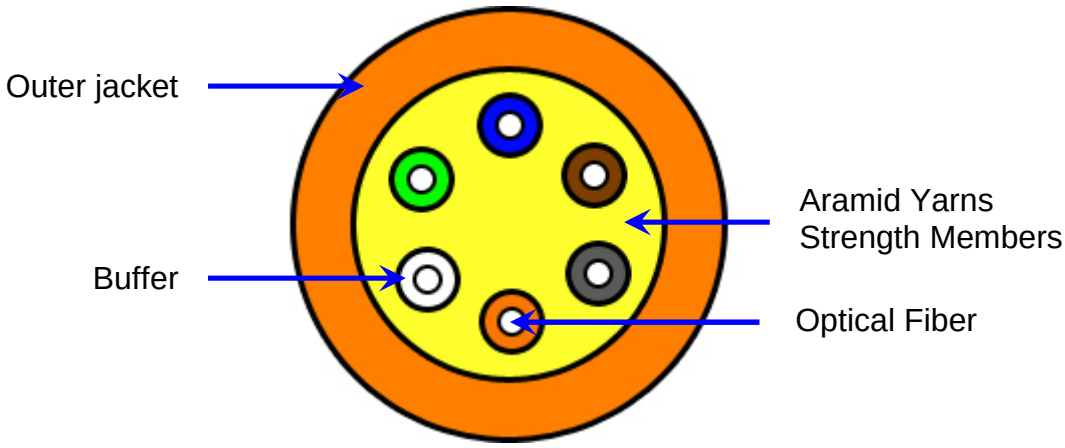
Indoor Distribution Fiber Optic Cables, Riser (4-24 Fibers)



4-24 Fibers

Description:

AMP Netconnect distribution cables are designed for routing between communications closets, intrabuilding backbones and connectorized communications cables cable meet TIA/EIA 568-C and ISO/IEC 11801 standard requirements for optical fiber cable performance, and are designed to exceed all of the performance requirements for current and proposed applications such as 100BASE-F, 155/622 Mbps ATM ,AMP Netconnect distribution cables has been designed to meet or exceed the requirements of 10Gigabit while still supporting legacy LED and VCSEL The system fulfills the specifications of IEEE 802.3z,Gigabit Ethernet, IEEE 802.3ae, 10Gigabit and 40/100Gbps Ethernet. The cables are available with Singlemode OS2, 62.5/125µm Extended Grade OM1 or 50/125µm OM2, or 50/125µm Laser Optimized (XG) OM3 and OM4

Specification (Text in brackets [ ] requires a choice.)

The optical fiber cable shall contain [4,6,8,12,24] tight-buffered [OM1, OM2, OM3, OM4 or OS2] fibers surrounded by aramid yarns strength members, and OFNR jacket, TIA/EIA 598-C color coded fibers for easy identification per EIA 359-A. UL/CSA rated for OFNR performance. The cable jacket shall be [yellow for singlemode or orange for multimode]. The cable shall meet the applicable performance requirements listed in the following tables.

Part Numbers

Description	Part Number				
	OS2	OM1	OM2	OM3	OM4
Fiber Optic Cables, 4F	Y-502985-4	Y-502985-5	Y-502985-2	Y-502985-8	Y-1859417-5
Fiber Optic Cables, 6F	Y-502989-4	Y-502989-5	Y-502989-2	Y-502989-8	Y-1859418-5
Fiber Optic Cables, 8F	Y-502990-4	Y-502990-5	Y-502990-2	Y-502990-8	Y-1859419-5
Fiber Optic Cables, 12F	Y-502991-4	Y-502991-5	Y-502991-2	Y-502991-8	Y-1859420-5
Fiber Optic Cables, 24F	Y-1859421-4	Y-1859421-1	Y-1859421-2	Y-1859421-3	Y-1859421-5

Y denotes Length: 1 = 1Km, 2 = 2Km, 3 = 3Km, 4 = 4Km.

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Performance Specifications

AMP Netconnect distribution fiber optic cables are designed and tested in accordance with TIA/EIA 568-C.3, IEEE 802.3 Standard ,ISO/IEC 11801, Telcordia (Bellcore) GR-409-CORE, ITU G.652D, ICEA 596, ICEA 696 Performance specifications are measured in accordance with EIA Fiber Optic Test Procedures (EIA/TIA-455 documents) and the test procedures of IEC 60793, IEC 60794.

Mechanical Specification:

Fiber Count	Nominal O.D. mm (in)	Nominal Weight Kg/Km	Min. Bending Radius		Rated Tensile Load		Temperature	
			Installation mm (in)	Long term mm (in)	Installation N	Long Term N	Storage	Operation/Installation
4-fiber	4.8	19	96	48	1400	600	-40 ºc to +70 ºc	-20 ºc to +70 ºc
6-fiber	4.8	21	96	48	1514	757		
8-fiber	5.4	26	108	54	1514	757		
12-fiber	6.2	32	124	62	1514	757		
24-fiber	8.8	60	176	88	1514	757		

Performance Characteristics (meet or exceed TIA/EIA 568-C.3 and ISO/IEC 11801 requirements)

Application	OM4 50/125µm (850/1300)	OM3 50/125µm (850/1300)	OM2 50/125µm (850/1300)	OM1 62.5/125µm (850/1300)	OS2 Singlemode (1310/1383/1550)
Typical Attenuation (dB/Km)	2.4/0.6	2.4/0.6	2.6/1.1	2.9/0.9	0.36/0.36/0.23
Maximum Attenuation (dB/Km)	3.5/1.5	3.5/1.5	3.5/1.5	3.5/1.0	0.4/0.4/0.4
Macro Bending Attenuation (dB)**	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.05
OFL Bandwidth (MHz×km)	3500/500	1500/500	500/500	200/600	N/A
850nm Laser Bandwidth (MHz×km)	4700	2000	N/A	N/A	N/A
1000Base-SX,Gigabit Ethernet,@850nm	900m	900m	550m	220m	-
1000Base-LX,Gigabit Ethernet,@1300nm	550m	550m	550m*	550m*	5000m
10GBase-SR,10Gbps,@850nm	550m	300m	82m	33m	-
10GBASE-LX4,10Gbps,WDM,@1310nm	300m	300m	300m	300m	10000m
10GBASE-LR,10Gbps,@1310nm	-	-	-	-	10000m
10GBASE-ER,10Gbps,@1550nm	-	-	-	-	40000m
40GBASE-SR4,40Gbps,@850nm	150m	100m	-	-	-
40GBASE-LR4,40Gbps,@1310nm	-	-	-	-	10000m
100GBASE-SR10,100Gbps,@850nm	100m	-	-	-	-
100GBASE-LR4,100Gbps,@1310nm	-	-	-	-	10000m
100GBASE-ER4,100Gbps,@1550nm	-	-	-	-	40000m

* To reach 550m on traditional fiber OM2, OM3 Mode Conditioning Lunch Patch Cord is required

** Macro Bending with 100 truns on a 75mm diameter at 850nm and 1300nm for multimode fiber cable
Macro Bending with 100 turns on a 60mm diameter at 1550nm and 1625nm for singlemode fiber cable

Technical Details

Approvals	
RoHS Compliant –	RoHS
Tensile Load –	IEC 60794-1-2-E1A
Crush –	IEC 60794-1-2-E3
Repeat Bending –	IEC 60794-1-2-E6
Cable Bend –	IEC 60794-1-2-E11A
Temperature Cycling –	IEC 60794-1-2-F1
Cable Torsion –	IEC 60794-1-2-E7

Specifications subject to change without notice. Revised 07/11

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