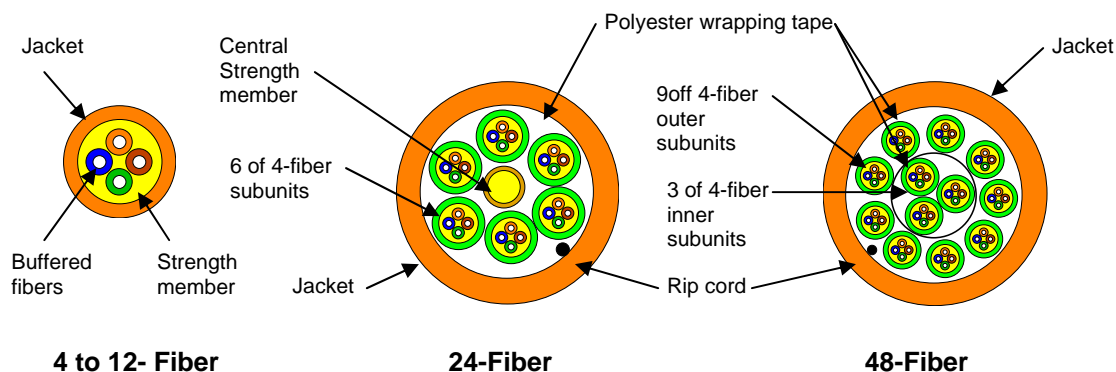


Distribution Fiber Optic Cables, LSZH (4-48 Fibers)



Description:

AMP NETCONNECT distribution cables are designed for routing between communications closets, as intrabuilding backbone cables and for connectorized communication cables. Distribution cables may be used as interbuilding backbone cables if installed in conduit buried below the frost line.

Standards Compliance:

AMP NETCONNECT cables are designed and tested to conform to the fiber and cable performance requirements of the TIA 568 and ISO 11801 Standards. Accordingly, the cables meet or exceed all of the performance requirements for current and proposed applications such as IEEE 802.3 Ethernet (including 10 Gigabit Ethernet), ATM, Fiber Channel, FDDI and others. The cables are available in Low Smoke Zero Halogen (LSZH) constructions and with Singlemode, 50/125µm, XG (850nm laser-optimized 50/125µm) or 62.5/125µm fiber

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

The optical fiber cable shall be all-dielectric and shall consist of [four, six, eight, twelve, twenty-four, or forty-eight] 900µm tight-buffered [singlemode, 50/125µm, 850nm laser-optimized 50/125µm, 62.5/125µm] fibers surrounded by aramid strength members and a LSZH outer jacket. Higher fiber counts shall have six or more subunits and may have a central member. The nominal cable dimensions shall be [insert table or values from the Mechanical Specifications table below]. The cable shall comply with the performance requirements listed in the Performance Characteristics table [insert table or values from the Performance Characteristics table]. The cable shall be AMP NETCONNECT part number [insert tables or part numbers from the Part Numbers tables below].

Shipping and Packaging:

The cable will be shipped on a wooden reel.

Materials:

Optical fibers are silica glass surrounded by acrylate coating. The tight-buffer material is a LSZH. Strength members are aramid Reinforcement member which are in jacket or in Central members. Cable jacket is LSZH material which is complied with Water absorption IEC 811-1, Smoke Emission IEC 1034, Acid Gas Emission IEC 754-1, Toxicity NES 713 and Fire propagation IEC 332-1 & 332-3 and mechanical properties of cable are tested according to IEC 794-1.

Part Numbers:

Distribution Cable, (4 to 48 Fibers)

Description	Part number					
	4-Fiber	6-Fiber	8-Fiber	12-Fiber	24-Fiber	48-Fiber
XG Fiber	Y-0599144-3	Y-0599145-3	Y-0599146-3	Y-0599148-3	Y-0599151-3	Y-0599603-3
50/125 µm Multimode	Y-0599144-7	Y-0599145-7	Y-0599146-7	Y-0599148-7	Y-0599151-7	Y-0599603-7
62.5/125 µm Multimode	Y-0599144-5	Y-0599145-5	Y-0599146-5	Y-0599148-5	Y-0599151-5	Y-0599603-5
Singlemode	Y-0599144-4	Y-0599145-4	Y-0599146-4	Y-0599148-4	Y-0599151-4	Y-0599603-4

Y denotes length: 1 = 1 Km, 2 = 2 Km per reel.

Distribution Fiber Optic Cables, LSZH (4-48 Fibers)



Performance Specifications:

AMP NETCONNECT Distribution tight-buffered cables are designed and tested in accordance with TIA-568-B.3 and ISO 11801. Performance specifications are measured in accordance with the Fiber Optic Test Procedures (EIA/TIA-455 documents) and the test procedures of IEC 60793 and IEC 60794.

Mechanical Specification:

Fiber Count	Nominal O.D. mm (in)	Nominal Weight Kg/Km (lb/Kft)	Min. Bending Radius		Rated Tensile Load		Operation Temperature
			Installation mm (in)	Long term mm (in)	Installation N (lb)	Long Term N (lb)	
4-fiber	4.7(0.18)	24(16)	70(2.8)	70 (2.8)	500 (112)	300(67)	
6-fiber	6.0(0.24)	33 (22)	90 (3.5)	90 (3.5)	1000(225)	600 (135)	
8-fiber	6.0 (0.24)	35(23.3)	90 (3.5)	90(3.5)	1000(225)	600(135)	-20 °c
12-fiber	7.5(0.29)	46 (30.6)	100 (3.9)	100(3.9)	1000(225)	600(135)	to
24-fiber	17.0(0.67)	184(122.6)	150	150	1760(400)	600(135)	+70 °c
48-fiber	17.0(0.67)	246(164)	100	100	2600(585)	1600(360)	

Performance Characteristics:

	XG Fiber (850/1300)	50/125 µm MM (850/1300)	62.5/125 µm MM (850/1300)	Singlemode (1310/1550)
Typical Attenuation	2.6/0.7 dB/km	2.6/0.7 dB/km	3.0/0.8 dB/km	0.4/0.3 dB/km
OFL Bandwidth	1500/500 MHz·km	500/500 MHz·km	200/600 MHz·km	Not Applicable
850nm Laser Bandwidth	2000 MHz·km	Not Applicable	Not Applicable	Not Applicable
1000BASE-SX Distance	2-900m	2-600m	2-300m	-
1000BASE-LX Distance	2-550m	2-600m	2-550m	2-5000m
10GBASE-SR Distance	2-300m	2-82m	2-33m	NST
10GBASE-LX4 Distance	2-300m	2-300m	2-300m	2-10000m

Specifications subject to change without notice.

Revised 05/07.

All stated mechanical specification are considered nominal and are subject to normal manufacturing tolerances.

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