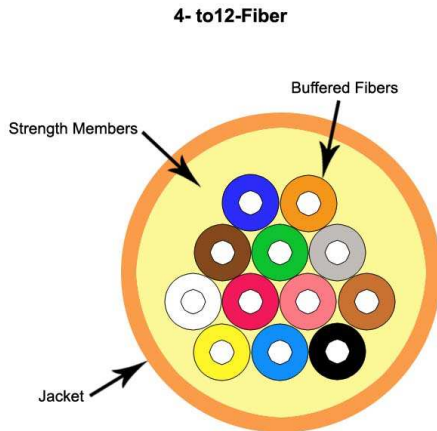


INDOOR FIBER OPTIC CABLE



DESCRIPTION

MK-FOUR™ distribution fiber cables are designed for routing between communications closets, as intrabuilding backbone cables and connectorized communication cables. Distribution cables may be used as interbuilding backbone cables if installed in conduit.

STANDARD COMPLIANCE

MK-FOUR™ cables are designed and tested to conform to the fiber and cable performance requirements of the TIA 568, ISO 11801, and ICEA-596 Standards. Accordingly, the cables meet or exceed all of the performance requirements for current and proposed applications such as IEEE802.3 Ethernet (including 10 Gigabit Ethernet), ATM, Fibre Channel, FDDI and others. The cables are available in riser constructions and with singlemode, 50/125µm (850nm laser-optimized 50/125µm) or 62.5/125µm fiber.

SPECIFICATIONS

The optical fiber cable shall be all-dielectric and shall consist of 4 - 12 Core 900µm tight-buffered singlemode, 50/125µm, 62.5/125µm fibers surrounded by aramid strength members and a PVC outer jacket. Higher fiber counts shall have two or more subunits and may have a central member. The cable shall have a UL rating. The cable jacket color yellow (for singlemode), orange (for multimode). The cable shall comply with the performance requirements listed in the Performance Characteristics table. The cable shall be UL listed. The temperature ratings for storage, shipping, installation and operation shall comply with the Temperature Ratings table.

MATERIALS

Optical fibers are silica glass surrounded by acrylate coating. The tight-buffer material is a flame rated PVC. Strength members are aramid yarns. Central members are glass-reinforced plastic (GRP). Cable and subunit jackets are flame-rated PVC.

PERFORMANCE SPECIFICATIONS

MK-FOUR™ interconnect tight-buffered cables are designed and tested in accordance with TIA 568, ISO 11801, ICEA 596, Telcordia (Bellcore) GR-409-CORE and UL 1666/910. 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 SPECIFICATIONS

Fiber Count	Nominal O.D. mm (in.)	Minimum Bend Radius		UL/ NEC Rating	Nominal Weight kg/ km (lbs./ 1000ft.)	Rated Tensile Load	
		Install mm (in.)	Long Term mm (in.)			Install N (lbf)	Long Term N (lbf)
4-Fiber	4.8 (0.19)	82 (3.2)	40 (1.5)	Riser (OFNR)	20 (14)	667 (150)	167 (38)
6-Fiber	4.8 (0.19)	98 (3.8)	49 (1.9)	Riser (OFNR)	22 (15)	667 (150)	167 (38)
8-Fiber	4.9 (0.19)	108 (4.2)	54 (2.1)	Riser (OFNR)	24 (16)	667 (150)	167 (38)
12-Fiber	6.2 (0.24)	124 (4.8)	62 (2.4)	Riser (OFNR)	36 (24)	667 (150)	167 (38)

PERFORMANCE CHARACTERISTICS

	Multimode 50/125µm (850nm/ 1300nm)	Multimode 62.5/125µm (850nm/ 1300nm)	Singlemode (1310nm/ 1550nm)
Maximum Attenuation	3.5/ 1.5 dB/ km	3.5/ 1.5 dB/ km	0.7/ 0.7 dB/ km
OFL Bandwidth	500/ 500 MHz/ km	200/ 500 MHz/ km	Not Applicable

TEMPERATURE RATINGS

UL/ NEC Rating	Operation	Installation	Storage/ Shipping
Riser (OFNR)	-20°C to +50°C (-22°F to +122°F)	-20°C to +50°C (-22°F to +122°F)	-40°C to +65°C (-40°F to +149°F)