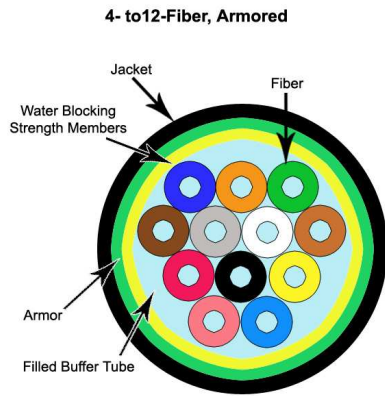


OUTDOOR DIELECTRIC FIBER OPTIC CABLE



DESCRIPTION

MK-FOUR™ outdoor cable is designed for industrial and campus-type environments or between buildings in aerial, duct or direct buried installations.

STANDARD COMPLIANCE

MK-FOUR™ fiber cable is designed and tested to conform to the fiber and cable performance requirements of the TIA 568, ISO 11801, and ICEA-640 Standards. Accordingly, the cable meets or exceeds all the performance requirements for current and proposed applications such as IEEE802.3 Ethernet (including 10 Gigabit Ethernet), ATM, Fibre Channel, FDDI and others. The cable is available in armored single tube, dielectric stranded tube and armored stranded tube constructions and with 9/125µm, 50/125µm or 62.5/125µm fiber.

SPECIFICATIONS

The armored optical fiber cable shall consist of 9/125µm, 50/125µm or 62.5/125µm strain free fibers and colored fibers shall be encased in a colored buffer tube filled with a water-barrier filling compound. Single tube constructions shall have a single buffer tube, water-blocking strength members, corrugated steel tape armor or music wire and a medium-density polyethylene (MDPE) outer jacket. The cable jacket shall be black.

MATERIALS

Optical fibers are silica glass surrounded by acrylate coating. The filling compound is a hygroscopic gel. The buffer tubes are thermoplastic and the central members are glass-reinforced plastic (GRP). The strength members are aramid and/ or fiberglass yarns. Water blocking materials are impregnated with super absorbent polymers. Cable jacket is black polyethylene. Armor is plastic-coated steel tape or music wire.

PERFORMANCE SPECIFICATIONS

MK-FOUR™ fiber optic cable is designed and tested in accordance with TIA 568, ISO 11801 and ICEA 640. 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

Cable Type	Fiber Count	Nominal O.D. mm (in.)	Nominal Weight kg/ km (lbs./ 1000ft.)	Rated Tensile Load		Minimum Bend Radius	
				Install N (lbf)	Long Term N (lbf)	Install mm (in.)	Long Term mm (in.)
Armored	4-Fiber	10.7 (0.42)	120 (78)	2700 (600)	890 (200)	214 (8.4)	107 (4.2)
	6-Fiber	10.7 (0.42)	120 (78)	2700 (600)	890 (200)	214 (8.4)	107 (4.2)
	8-Fiber	10.7 (0.42)	120 (78)	2700 (600)	890 (200)	214 (8.4)	107 (4.2)
	12-Fiber	10.7 (0.42)	120 (78)	2700 (600)	890 (200)	214 (8.4)	107 (4.2)

PERFORMANCE CHARACTERISTICS

	Multimode 50/125µm (850nm/ 1300nm)	Multimode 62.5/125µm (850nm/ 1300nm)	Singlemode (1310nm/ 1550nm)
Maximum Attenuation	3.5/ 1.0 dB/ km	3.5/ 1.0 dB/ km	0.5/ 0.5 dB/ km
Min Bandwidth	400/ 400 MHz/ km	200/ 500 MHz/ km	Not Applicable
1000BASE-SX Distance	2-600m	2-300m	2-5000m
1000BASE-LX Distance	2-600m	2-550m	2-5000m

TEMPERATURE RATINGS

Operation	Installation	Storage/ Shipping
-40°C to +70°C (-40°F to +160°F)	-20°C to +60°C (-22°F to +140°F)	-40°C to +70°C (-40°F to +160°F)