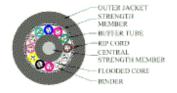


M9A504 Fiber - Loose Tube All Dielectric - Flooded Core/Single PE Jacket



X

For more Information please call

1-800-Belden1

Description:

FiberExpress Loose Tube Optical Fiber Cables are loose-tube buffered cables suited for outdoor applications such as lashed aerial or underground conduit.

nysical Characteristics (Overall)	
Fiber Type:	50/125/250 Micron
Number of Fibers:	72
Core Diameter:	50 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	2% Maximum
Primary Coating Material:	Acrylate
Primary Coating Diameter:	245 +/- 10
Secondary Coating Diameter:	250

Fiber Color Code Chart:

Color
Blue
Orange
Green
Brown
Slate
White

Buffer Tube Diameter: 1.9

Buffer Tube Material: PBT - Polybutylene Terephthalate

Buffer Tube Filling Material: Synthetic Thixotropic Gel

Buffer Tube Color Code Chart:

Color
Blue
Orange
Green
Brown
Slate
White
Red
Black
Yellow
Violet
Rose
Aqua

Core-clad Offset: 3 Microns Maximum

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
MDPE - Medium Density Polyethylene

Outer Jacket Nominal Wall Thickness: .060





M9A504 Fiber - Loose Tube All Dielectric - Flooded Core/Single PE Jacket

Outer Jacket Diameter:

Nom. Dia. (in.) .520

Outer Jacket Ripcord: Polyester

Outer Jacket Color: Black

Strength Member

Strength Member Material: Fiberglass Epoxy Rod, Aramid Yarn

Overall Cabling

Overall Nominal Diameter: 0.520 in.

Mechanical Characteristics (Overall)

-50°C To +80°C Storage Temperature Range: **Operating Temperature Range:** -40°C To +70°C Min. Bend Radius (Install)/Minor Axis: 10.400 in. Min. Bend Radius for Long Term Application: 7.800 in. Crush Resistance: Passes TIA/EIA 455-41, 2000 N/cm Impact Resistance: Passes TIA/EIA 455-25, 2000 Impacts w/1.6 N-m Solar Radiation Resistance: High Water Penetration: Passes TIA/EIA 455-82 Compound Flow: Passes TIA/EIA 455-81 Cyclic Flexing: Passes TIA/EIA 455-104 Max. Load for Installation: 600 lbs. Max. Load for Long Term Application: 180 lbs. **Proof Test:** 100 kpsi

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

 IEEE Specification:
 802.3Z

 Telecommunications Standards:
 568B

Suitability

Suitability - Indoor: Yes
Suitability - Outdoor: Yes

Suitability - Aerial: Yes
Sunlight Resistance: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Optical Characteristics (Overall)

 Maximum Attenuation @ 850nm:
 3.0 dB/km

 Maximum Attenuation @ 1300nm:
 1.0 dB/km

 Point Loss @ 850nm & 1300nm:
 0.2

 Minimum Bandwidth @ 850nm:
 500 MHz*km

 Minimum Bandwidth @ 1300nm:
 500 MHz*km

 Refractive Index @ 850nm:
 1.496

 Refractive Index @ 1300nm:
 1.491

Detailed Specifications & Technical Data





M9A504 Fiber - Loose Tube All Dielectric - Flooded Core/Single PE Jacket

 Numerical Aperature:
 0.200

 Maximum Gigabit Ethernet Length @ 850nm:
 600

 Maximum Gigabit Ethernet Length @ 1300nm:
 600

Notes (Overall)

Notes: Cable is flooded for moisture protection.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

Revision Number: 0 Revision Date: 05-14-2007

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