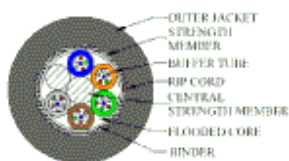


## M9A501 Fiber - Loose Tube All Dielectric - Flooded Core/Single PE Jacket



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.

**Physical Characteristics (Overall)**

<b>Fiber Type:</b>	50/125/250 Micron
<b>Number of Fibers:</b>	30
<b>Core Diameter:</b>	50 +/- 2.5
<b>Core Non-Circularity:</b>	5% Maximum
<b>Clad Diameter:</b>	125 +/- 2
<b>Clad Non-Circularity:</b>	2% Maximum
<b>Primary Coating Material:</b>	Acrylate
<b>Primary Coating Diameter:</b>	245 +/- 10
<b>Secondary Coating Diameter:</b>	250

**Fiber Color Code Chart:**

Color
Blue
Orange
Green
Brown
Slate
White

<b>Buffer Tube Diameter:</b>	1.9
<b>Buffer Tube Material:</b>	PBT - Polybutylene Terephthalate
<b>Buffer Tube Filling Material:</b>	Synthetic Thixotropic Gel

**Buffer Tube Color Code Chart:**

Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate

<b>Core-clad Offset:</b>	3 Microns Maximum
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**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
MDPE - Medium Density Polyethylene

<b>Outer Jacket Nominal Wall Thickness:</b>	.060
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**Outer Jacket Diameter:**

Nom. Dia. (in.)
0.375

<b>Outer Jacket Ripcord:</b>	Polyester
<b>Outer Jacket Color:</b>	Black

**Strength Member**

**M9A501 Fiber - Loose Tube All Dielectric - Flooded Core/Single PE Jacket**

<b>Strength Member Material:</b>	Fiberglass Epoxy Rod, Aramid Yarn
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**Overall Cabling**

<b>Overall Cabling Fillers:</b>	Polyethylene
<b>Overall Nominal Diameter:</b>	0.375 in.

**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-50°C To +80°C
<b>Operating Temperature Range:</b>	-40°C To +70°C
<b>Min. Bend Radius (Install)/Minor Axis:</b>	7.500 in.
<b>Min. Bend Radius for Long Term Application:</b>	5.625 in.
<b>Crush Resistance:</b>	Passes TIA/EIA 455-41, 2000 N/cm
<b>Impact Resistance:</b>	Passes TIA/EIA 455-25, 2000 Impacts w/1.6 N-m
<b>Solar Radiation Resistance:</b>	High
<b>Water Penetration:</b>	Passes TIA/EIA 455-82
<b>Compound Flow:</b>	Passes TIA/EIA 455-81
<b>Cyclic Flexing:</b>	Passes TIA/EIA 455-104
<b>Max. Load for Installation:</b>	600 lbs.
<b>Max. Load for Long Term Application:</b>	180 lbs.
<b>Proof Test:</b>	100 kpsi

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>IEEE Specification:</b>	802.3Z
<b>Telecommunications Standards:</b>	568B

**Suitability**

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Suitability - Aerial:</b>	Yes
<b>Sunlight Resistance:</b>	Yes

**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	No
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**Optical Characteristics (Overall)**

<b>Maximum Attenuation @ 850nm:</b>	3.0 dB/km
<b>Maximum Attenuation @ 1300nm:</b>	1.0 dB/km
<b>Point Loss @ 850nm &amp; 1300nm:</b>	0.2
<b>Minimum Bandwidth @ 850nm:</b>	500 MHz*km
<b>Minimum Bandwidth @ 1300nm:</b>	500 MHz*km
<b>Refractive Index @ 850nm:</b>	1.496
<b>Refractive Index @ 1300nm:</b>	1.491
<b>Numerical Aperature:</b>	0.200
<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	600
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	600

**Notes (Overall)**

**Notes:** Cable is flooded for moisture protection.

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**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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