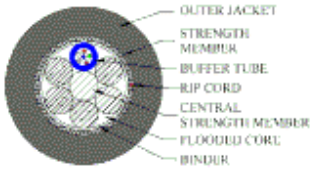
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

M9A510 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)

Fiber Type:	50/125/250 Micron
Number of Fibers:	6
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:

Number	Color
1	Blue

Core-clad Offset:	3 Microns Maximum

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
MDPE - Medium Density Polyethylene

Outer Jacket Nominal Wall Thickness:	.060

Outer Jacket Diameter:

Nom. Dia. (in.)
0.375

Outer Jacket Ripcord:	Polyester
Outer Jacket Color:	Black

Strength Member

Strength Member Material:	Fiberglass Epoxy Rod, Aramid Yarn

Overall Cabling

Overall Nominal Diameter:	0.375 in.

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Mechanical Characteristics (Overall)

Storage Temperature Range:	-50°C To +80°C
Operating Temperature Range:	-40°C To +70°C
Min. Bend Radius (Install)/Minor Axis:	7.500 in.
Min. Bend Radius for Long Term Application:	5.600 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
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

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