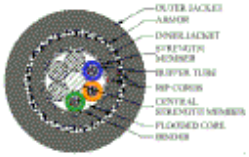
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

M9A397 Fiber - Loose Tube Armored - Flooded Core/Single Armor/Double Jacket



For more Information please call

1-800-Belden1

Description:

FiberExpress Loose Tube (Campus) Armor Optical Fiber Cable Series is made up of rugged fiber cables for applications in hostile environments. This series of cables has corrugated steel armor which provides added protection for direct burial applications

Physical Characteristics (Overall)

Fiber Type:	50/125/250 Micron
Number of Fibers:	36
Core Diameter:	50 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	1% 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
Red
Black
Yellow
Violet
Rose
Aqua

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
2	Orange
3	Green

Core-clad Offset:	1.5 Microns Maximum

Inner Jacket

Inner Jacket Nominal Wall Thickness:	0.03
Inner Jacket Ripcord:	Yes

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
MDPE - Medium Density Polyethylene

Outer Jacket Nominal Wall Thickness:	.060

Outer Jacket Diameter:

Nom. Dia. (in.)
0.610

Outer Jacket Ripcord:	Aramid
Outer Jacket Color:	Black

Strength Member

Strength Member Material:	Fiberglass Epoxy Rod, Aramid Yarn

Armor

Armor Type:	Corrugated
Armor Material:	Steel

Overall Cabling

Overall Cabling Fillers:	Polyethylene
Overall Nominal Diameter:	0.610 in.

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:	12.200 in.
Min. Bend Radius for Long Term Application:	9.150 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
Twist Bend:	Passes TIA/EIA 455-85
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 - Burial:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.0 dB/km

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Maximum Attenuation @ 1300nm:	1.0 dB/km
Point Loss @ 850nm & 1300nm:	.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:	.2
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