

M9A384 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: 24

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 Material: Engineering Thermoplastic

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 |
| 2 | Orange |
| 3 | Green |
| 4 | Brown |

Core-clad Offset: 1.5 Microns Maximum

Inner Jacket

Inner Jacket Nominal Wall Thickness: 0.030

Inner Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Black |

Outer Jacket

Outer Jacket Material:

M9A384 Fiber - Loose Tube Armored - Flooded Core/Single Armor/Double Jacket
Outer Jacket Material

MDPE - Medium Density Polyethylene

Outer Jacket Nominal Wall Thickness: .060

Outer Jacket Diameter:
Nom. Dia. (in.)

0.530

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

Armor Thickness: .006

Overall Cabling

Overall Cabling Fillers: Polyethylene

Overall Nominal Diameter: 0.530 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: 10.600 in.

Min. Bend Radius for Long Term Application: 8 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

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Telecommunications Standards: 568B

M9A384 Fiber - Loose Tube Armored - Flooded Core/Single Armor/Double Jacket**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: | 3.5 dB/km |
| 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 Aperture: | .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

© 2010 Belden, Inc
 All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.