



For more Information
please call

1-800-Belden1



General Description:

FiberExpress Tray Optic Cable, 48-Fiber, OM1 OFNR, Loose Tube, Indoor & Outdoor Rated with UV Resistant Orange CPE Jacket, Industrial Grade, Water-blocked with Gigabit Ethernet Grade fiber.

Physical Characteristics (Overall)

| | |
|---------------------------|---------------------|
| Fiber Type: | 62.5/125/250 Micron |
| Number of Fibers: | 48 |
| Core Diameter: | 62.5 +/- 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 |

Fiber Color Code Chart:

| Color |
|--------|
| Blue |
| Orange |
| Green |
| Brown |
| Gray |
| White |
| Red |
| Black |
| Yellow |
| Violet |
| Pink |
| Aqua |

| | |
|-------------------------------|-------------------------------|
| Buffer Tube Diameter: | 1.9 |
| Buffer Tube Material: | Flame Retardant Thermoplastic |
| Buffer Tube Filling Material: | Synthetic Thixotropic Gel |

Buffer Tube Color Code Chart:

| Number | Color |
|--------|--------|
| 1 | Blue |
| 2 | Orange |
| 3 | Green |
| 4 | Brown |
| 5 | Gray |
| 6 | White |

| | |
|-------------------|---------------------|
| Core-clad Offset: | 1.5 microns Maximum |
|-------------------|---------------------|

Inner Jacket

| | |
|-----------------------|-----|
| Inner Jacket Ripcord: | Yes |
|-----------------------|-----|

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------|
| CPE - Chlorinated Polyethylene |

| | |
|-----------------------|--------|
| Outer Jacket Ripcord: | Yes |
| Outer Jacket Color: | Orange |

Strength Member

| | |
|---------------------------|---------------------------------------|
| Strength Member Material: | Fiberglass Yarn, Fiberglass Epoxy Rod |
|---------------------------|---------------------------------------|

Overall Cable

| | |
|---------------------------|-----------|
| Overall Cabling Fillers: | PVC |
| Overall Nominal Diameter: | 0.540 in. |

Mechanical Characteristics (Overall)

| | |
|---|---|
| Storage Temperature Range: | -40°C To +80°C |
| Operating Temperature Range: | -40°C To +70°C |
| Bulk Cable Weight: | 129 lbs/1000 ft. |
| Min. Bend Radius/Minor Axis: | 10.800 in. |
| Min. Bend Radius for Long Term Application: | 8.100 in. |
| Crush Resistance: | Passes TIA/EIA 455-41; 2000 N/cm |
| Impact Resistance: | Passes TIA/EIA 455-25; 2000 Impacts @ 1.6 N-m |
| Solar Radiation Resistance: | High |
| Water Penetration: | Passes TIA/EIA 455-82 |
| Compound Flow: | Passes TIA/EIA 455-81 |
| 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**

| | |
|---------------------------------------|---|
| NEC/(UL) Specification: | OFNR |
| CEC/C(UL) Specification: | OFNR |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| 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 |
| Other Specification: | Suitable for installation in trays per NFPA 70. |

Flame Test

| | |
|-------------------|--|
| C(UL) Flame Test: | FT4 |
| IEEE Flame Test: | 1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU) |

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Aerial: | Yes |
| Suitability - Burial: | Yes |
| Sunlight Resistance: | Yes |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Optical Characteristics (Overall)

| | |
|-------------------------------|------------|
| Maximum Attenuation @ 850nm: | 3.25 dB/km |
| Maximum Attenuation @ 1300nm: | 1.0 dB/km |
| Point Loss @ 850nm & 1300nm: | 0.2 |
| Minimum Bandwidth @ 850nm: | 200 MHz*km |
| Minimum Bandwidth @ 1300nm: | 500 MHz*km |

Refractive Index @ 850nm: 1.496

Refractive Index @ 1300nm: 1.491

Numerical Aperature: .275

Maximum Gigabit Ethernet Length @ 850nm: 300 meters

Maximum Gigabit Ethernet Length @ 1300nm: 550 meters

Related Documents:

[Loose Tube Trayoptic Cable.pdf](#) - Loose Tube Trayoptic Cable

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------|-------|-------------|--------|-------|-----------------------|
| I604866 | 1 FT | 0.000 | ORANGE | | REPLACED BY FD1Y048RG |

Revision Number: 0 Revision Date: 08-04-2014

© 2017 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.