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## General Description:

FiberExpress Tray Optic Cable, 2-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:             | 2                             |
| Core Diameter:                | 62.5 +/- 2.5                  |
| Core Non-Circularity:         | 5&#37; Maximum                |
| Clad Diameter:                | 125 +/- 2                     |
| Clad Non-Circularity:         | 1&#37; Maximum                |
| Primary Coating Material:     | Acrylate                      |
| Primary Coating Diameter:     | 245 +/- 10                    |
| 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  |

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

### Inner Jacket

### Outer Jacket

#### Outer Jacket Material:

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

|                     |        |
|---------------------|--------|
| Outer Jacket Color: | Orange |
|---------------------|--------|

### Overall Cable

|                           |           |
|---------------------------|-----------|
| Overall Cabling Fillers:  | PVC       |
| Overall Nominal Diameter: | 0.430 in. |

## Mechanical Characteristics (Overall)

|   |   |
|---|---|
| Storage Temperature Range:                  | -40°C To +70°C                                |
| Installation Temperature Range:             | -20°C To +60°C                                |
| Operating Temperature Range:                | -40°C To +70°C                                |
| Bulk Cable Weight:                          | 89 lbs/1000 ft.                               |
| Min. Bend Radius/Minor Axis:                | 8.600 in.                                     |
| Min. Bend Radius for Long Term Application: | 6.500 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) |

#### Plenum/Non-Plenum

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

### Optical Characteristics (Overall)

|   |            |
|---|------------|
| Maximum Attenuation @ 850nm:              | 3.5 dB/km  |
| Maximum Attenuation @ 1300nm:             | 1.2 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 |

#### Fiber Coding MLT EMEA:

| Fiber/Tube No. | Color  |
|----------------|--------|
| 1              | Blue   |
| 2              | Orange |
| 3              | Green  |
| 4              | Brown  |
| 5              | Slate  |
| 6              | White  |
| 7              | Red    |
| 8              | Black  |
| 9              | Yellow |
| 10             | Violet |
| 11             | Rose   |
| 12             | Aqua   |

#### Related Documents:

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

#### Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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