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please call

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## General Description:

FiberExpress Tray Optic Cable, 12-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)

Product Family - Riser:

| Fiber Count | # Fibers/<br>Tubes | Type | OM1 MM<br>62.5/125<br>1 Gb | OM2 MM<br>50/125<br>1 Gb | OM3 MM<br>50/125<br>10 Gb 300m | OM4 MM<br>50/125 | OS2 - SM |
|-------------|--------------------|------|----------------------------|--------------------------|--------------------------------|------------------|----------|
| 2           | 2                  | PVC  | I100255                    | I1A0255                  | I1C0255                        | I1E0255          | I1W0255  |
| 4           | 4                  | PVC  | I100455                    | I1A0455                  | I1C0455                        | I1E0455          | I1W0455  |
| 6           | 6                  | PVC  | I100655                    | I1A0655                  | I1C0655                        | I1E0655          | I1W0655  |
| 8           | 4                  | PVC  | I400855                    | I4A0855                  | I4C0855                        | I4E0855          | I4W0855  |
| 12          | 6                  | PVC  | I601255                    | I6A1255                  | I6C1255                        | I6E1255          | I6W1255  |
| 18          | 6                  | PVC  | I601855                    | I6A1855                  | I6C1855                        | I6E1855          | I6W1855  |
| 24          | 6                  | PVC  | I602455                    | I6A2455                  | I6C2455                        | I6E2455          | I6W2455  |
| 36          | 6                  | PVC  | I603655                    | I6A3655                  | I6C3655                        | I6E3655          | I6W3655  |
| 48          | 12                 | PVC  | I604855                    | I6A4855                  | I6C4855                        | I6E4855          | I6W4855  |
| 60          | 12                 | PVC  | I606055                    | I6A6055                  | I6C6055                        | I6E6055          | I6W6055  |
| 72          | 12                 | PVC  | I607255                    | I6A7255                  | I6C7255                        | I6E7255          | I6W7255  |
| 2           | 2                  | CPE  | I100266                    | I1A0266                  | I1C0266                        | I1E0266          | I1W0266  |
| 4           | 4                  | CPE  | I100466                    | I1A0466                  | I1C0466                        | I1E0466          | I1W0466  |
| 6           | 6                  | CPE  | I100666                    | I1A0666                  | I1C0666                        | I1E0666          | I1W0666  |
| 8           | 4                  | CPE  | I400866                    | I4A0866                  | I4C0866                        | I4E0866          | I4W0866  |
| 12          | 5                  | CPE  | I601266                    | I6A1266                  | I6C1266                        | I6E1266          | I6W1266  |
| 18          | 6                  | CPE  | I601866                    | I6A1866                  | I6C1866                        | I6E1866          | I6W1866  |
| 24          | 6                  | CPE  | I602466                    | I6A2466                  | I6C2466                        | I6E2466          | I6W2466  |
| 36          | 6                  | CPE  | I603666                    | I6A3666                  | I6C3666                        | I6E3666          | I6W3666  |
| 48          | 12                 | CPE  | I604866                    | I6A4866                  | I6C4866                        | I6E4866          | I6W4866  |
| 60          | 12                 | CPE  | I606066                    | I6A6066                  | I6C6066                        | I6E6066          | I6W6066  |
| 72          | 12                 | CPE  | I607266                    | I6A7266                  | I6C7266                        | I6E7266          | I6W7266  |

Fiber Type: 62.5/125/250 Micron

Number of Fibers: 12

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

### Fiber Color Code Chart:

| Color  |
|--------|
| Blue   |
| Orange |
| Green  |
| Brown  |
| Gray   |
| White  |

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 |

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 |

**Related Documents:**
[Loose Tube Trayoptic Cable.pdf](#) - Loose Tube Trayoptic Cable
**Put Ups and Colors:**

| Item #  | Putup | Ship Weight | Color  | Notes | Item Desc             |
|---------|-------|-------------|--------|-------|-----------------------|
| I601266 | 1 FT  | 0.102 LB    | ORANGE |       | REPLACED BY FD1Y012RF |

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