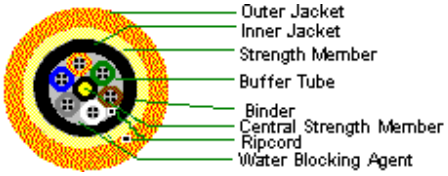
# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

**I100266 Fiber - TrayOptic®**




For more Information please call

1-800-Belden1

## Description:

This cable has been upgraded with a water-blocking agent. The Industrial series of products utilize Gigabit Ethernet Grade fiber to handle tomorrow^s Gigabit Ethernet light sources and expanded bandwidth requirements.

## Physical Characteristics (Overall)

| | |
|---|---|
| **Fiber Type:** | 62.5/125/250 Micron |
| **Number of Fibers:** | 2 |
| **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 |
| **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

| | |
|---|---|
| **Inner Jacket Ripcord:** | Polyester |

### Outer Jacket

**Outer Jacket Material:**

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

| | |
|---|---|
| **Outer Jacket Ripcord:** | Polyester |
| **Outer Jacket Color:** | Orange |

### Strength Member

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

### Overall Cable

| | |
|---|---|
| **Overall Cabling Fillers:** | PVC |
| **Overall Nominal Diameter:** | 0.440 in. |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Storage Temperature Range:** | -40°C To +80°C |
| **Operating Temperature Range:** | -40°C To +70°C |

| | |
|---|---|
| **Bulk Cable Weight:** | 83 lbs/1000 ft. |
| **Min. Bend Radius (Install)/Minor Axis:** | 8.800 in. |
| **Min. Bend Radius for Long Term Application:** | 6.600 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 |
| **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 |

### 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:** | 3.25 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 |
| **Maximum Gigabit Ethernet Length @ 1300nm:** | 550 |

## Related Documents:

Loose Tube Trayoptic Cable.pdf - Loose Tube Trayoptic Cable

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---|---|---|---|---|---|
| I100266 | 1 FT | 0.102 LB | ORANGE | | T-OPT OM1 2F OFNR LT |

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