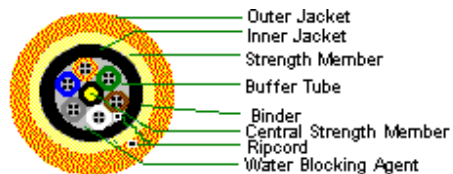


## I602466 Fiber - TrayOptic®



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)

<b>Fiber Type:</b>	62.5/125/250 Micron
<b>Number of Fibers:</b>	24
<b>Core Diameter:</b>	62.5 +/- 2.5
<b>Core Non-Circularity:</b>	5% Maximum
<b>Clad Diameter:</b>	125 +/- 2
<b>Clad Non-Circularity:</b>	1% Maximum
<b>Primary Coating Material:</b>	Acrylate
<b>Primary Coating Diameter:</b>	245 +/- 10

#### Fiber Color Code Chart:

Color
Blue
Orange
Green
Brown
Gray
White

<b>Buffer Tube Diameter:</b>	1.9
<b>Buffer Tube Material:</b>	Flame Retardant Thermoplastic
<b>Buffer Tube Filling Material:</b>	Synthetic Thixotropic Gel

#### Buffer Tube Color Code Chart:

Number	Color
1	Blue
2	Orange
3	Green
4	Brown

<b>Core-clad Offset:</b>	1.5 microns Maximum
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### Inner Jacket

<b>Inner Jacket Ripcord:</b>	Polyester
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### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
CPE - Chlorinated Polyethylene

<b>Outer Jacket Ripcord:</b>	Polyester
<b>Outer Jacket Color:</b>	Orange

**Strength Member**

<b>Strength Member Material:</b>	Fiberglass Epoxy Rod, Aramid Yarn
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**Overall Cable**

<b>Overall Cabling Fillers:</b>	PVC
<b>Overall Nominal Diameter:</b>	0.440 in.

**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-40°C To +80°C
<b>Operating Temperature Range:</b>	-40°C To +70°C
<b>Bulk Cable Weight:</b>	83 lbs/1000 ft.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	8.800 in.
<b>Min. Bend Radius for Long Term Application:</b>	6.600 in.
<b>Crush Resistance:</b>	Passes TIA/EIA 455-41; 2000 N/cm
<b>Impact Resistance:</b>	Passes TIA/EIA 455-25; 2000 Impacts @ 1.6 N-m
<b>Solar Radiation Resistance:</b>	High
<b>Water Penetration:</b>	Passes TIA/EIA 455-82
<b>Compound Flow:</b>	Passes TIA/EIA 455-81
<b>Max. Load for Installation:</b>	600 lbs.
<b>Max. Load for Long Term Application:</b>	180 lbs.
<b>Proof Test:</b>	100 kpsi

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>NEC/UL Specification:</b>	OFNR
<b>CEC/C(UL) Specification:</b>	OFNR
<b>IEEE Specification:</b>	802.3Z
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2006
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

**Flame Test**

<b>C(UL) Flame Test:</b>	FT4
<b>IEEE Flame Test:</b>	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	No
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**Optical Characteristics (Overall)**

<b>Maximum Attenuation @ 850nm:</b>	3.25 dB/km
<b>Maximum Attenuation @ 1300nm:</b>	1.0 dB/km
<b>Point Loss @ 850nm &amp; 1300nm:</b>	0.2
<b>Minimum Bandwidth @ 850nm:</b>	200 MHz*km
<b>Minimum Bandwidth @ 1300nm:</b>	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
I602466	1 FT	0.101 LB	ORANGE		T-OPT OM1 24F OFNR LT

Revision Number: 2    Revision Date: 03-18-2009

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