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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:	4
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
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### Inner Jacket

Inner Jacket Ripcord:	Polyester
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### 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
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### 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

<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
<b>Refractive Index @ 850nm:</b>	1.496
<b>Refractive Index @ 1300nm:</b>	1.491
<b>Numerical Aperature:</b>	.275
<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	300
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	550

### Related Documents:

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
I100466	1 FT	0.102 LB	ORANGE		T-OPT OM1 4F OFNR LT

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