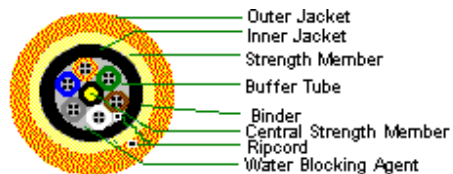


I604866 Fiber - TrayOptic®



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:	48
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

Fiber Color Code Chart:

Color
Blue
Orange
Green
Brown
Gray
White
Red
Black
Yellow
Violet
Pink
Aqua

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
3	Green
4	Brown
5	Gray
6	White

Core-clad Offset:	1.5 microns Maximum
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Inner Jacket

Inner Jacket Ripcord:	Yes
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Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
CPE - Chlorinated Polyethylene

Outer Jacket Ripcord:	Yes
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Outer Jacket Color:	Orange
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Strength Member

Strength Member Material:	Fiberglass Yarn, Fiberglass Epoxy Rod
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Overall Cable

Overall Cabling Fillers:	PVC
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Overall Nominal Diameter:	0.540 in.
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Mechanical Characteristics (Overall)

Storage Temperature Range:	-40°C To +80°C
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Operating Temperature Range:	-40°C To +70°C
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Bulk Cable Weight:	129 lbs/1000 ft.
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Min. Bend Radius (Install)/Minor Axis:	10.800 in.
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Min. Bend Radius for Long Term Application:	8.100 in.
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Crush Resistance:	Passes TIA/EIA 455-41; 2000 N/cm
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Impact Resistance:	Passes TIA/EIA 455-25; 2000 Impacts @ 1.6 N-m
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Solar Radiation Resistance:	High
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Water Penetration:	Passes TIA/EIA 455-82
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Compound Flow:	Passes TIA/EIA 455-81
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Max. Load for Installation:	600 lbs.
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Max. Load for Long Term Application:	180 lbs.
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Proof Test:	100 kpsi
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Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

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

C(UL) Flame Test:	FT4
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IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Aerial:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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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 Aperture:	.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
I604866	1 FT	0.000	ORANGE		T-OPT OM1 48F OFNR LT
I604866 003X	1 FT	0.000 LB	ORANGE		62.5UM TRAYOPTIC CPE

Revision Number: 0 Revision Date: 03-18-2009

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