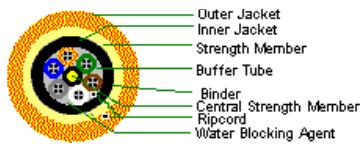


# Detailed Specifications & Technical Data

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## ENGLISH MEASUREMENT VERSION

I604866 Fiber - TrayOptic®



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Tray Optic Cable, 48-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)

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

#### Inner Jacket

Inner Jacket Ripcord: Yes

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
CPE - Chlorinated Polyethylene

Outer Jacket Ripcord: Yes

Outer Jacket Color: Orange

#### Strength Member

Strength Member Material: Fiberglass Yarn, Fiberglass Epoxy Rod

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

I604866 Fiber - TrayOptic®

### Overall Cable

Overall Cabling Fillers:	PVC
Overall Nominal Diameter:	0.540 in.

### Mechanical Characteristics (Overall)

Storage Temperature Range:	-40°C To +80°C
Operating Temperature Range:	-40°C To +70°C
Bulk Cable Weight:	129 lbs/1000 ft.
Min. Bend Radius/Minor Axis:	10.800 in.
Min. Bend Radius for Long Term Application:	8.100 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)

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
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

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

## I604866 Fiber - TrayOptic®

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
I604866	1 FT	0.000	ORANGE		REPLACED BY FD1Y048RG

Revision Number: 0 Revision Date: 08-04-2014

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