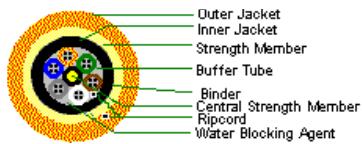


# Detailed Specifications & Technical Data

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## METRIC MEASUREMENT VERSION

I100466 Fiber - TrayOptic®



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Tray Optic Cable, 4-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)

Product Family - Riser:

Fiber	# Fibers/Count Tubes	Type	OM1 MM 62.5/125 1 Gb	OM2 MM 50/125 1 Gb	OM3 MM 50/125 10 Gb 300m	OM4 MM 50/125	OS2 - SM
2	2	PVC	I100255	I1A0255	I1C0255	I1E0255	.. I1W0255
4	4	PVC	I100455	I1A0455	I1C0455	I1E0455	.. I1W0455
6	6	PVC	I100655	I1A0655	I1C0655	I1E0655	.. I1W0655
8	4	PVC	I400855	I4A0855	I4C0855	I4E0855	.. I4W0855
12	6	PVC	I601255	I6A1255	I6C1255	I6E1255	.. I6W1255
18	6	PVC	I601855	I6A1855	I6C1855	I6E1855	.. I6W1855
24	6	PVC	I602455	I6A2455	I6C2455	I6E2455	.. I6W2455
36	6	PVC	I603655	I6A3655	I6C3655	I6E3655	.. I6W3655
48	12	PVC	I604855	I6A4855	I6C4855	I6E4855	.. I6W4855
60	12	PVC	I606055	I6A6055	I6C6055	I6E6055	.. I6W6055
72	12	PVC	I607255	I6A7255	I6C7255	I6E7255	.. I6W7255
2	2	CPE	I100266	I1A0266	I1C0266	I1E0266	.. I1W0266
4	4	CPE	I100466	I1A0466	I1C0466	I1E0466	.. I1W0466
6	6	CPE	I100666	I1A0666	I1C0666	I1E0666	.. I1W0666
8	4	CPE	I400866	I4A0866	I4C0866	I4E0866	.. I4W0866
12	5	CPE	I601266	I6A1266	I6C1266	I6E1266	.. I6W1266
18	6	CPE	I601866	I6A1866	I6C1866	I6E1866	.. I6W1866
24	6	CPE	I602466	I6A2466	I6C2466	I6E2466	.. I6W2466
36	6	CPE	I603666	I6A3666	I6C3666	I6E3666	.. I6W3666
48	12	CPE	I604866	I6A4866	I6C4866	I6E4866	.. I6W4866
60	12	CPE	I606066	I6A6066	I6C6066	I6E6066	.. I6W6066
72	12	CPE	I607266	I6A7266	I6C7266	I6E7266	.. I6W7266

**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

**Inner Jacket**

**Outer Jacket**

**Outer Jacket Material:**

**Outer Jacket Material**

CPE - Chlorinated Polyethylene

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

I100466 Fiber - TrayOptic®

Outer Jacket Color: Orange

### Overall Cable

Overall Cabling Fillers: PVC

Overall Nominal Diameter: 10.922 mm

### Mechanical Characteristics (Overall)

Storage Temperature Range: -40°C To +70°C

Installation Temperature Range: -20°C To +60°C

Operating Temperature Range: -40°C To +70°C

Bulk Cable Weight: 132.450 Kg/Km

Min. Bend Radius/Minor Axis: 218.440 mm

Min. Bend Radius for Long Term Application: 165.100 mm

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: 2668.920 N

Max. Load for Long Term Application: 800.676 N

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)

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Optical Characteristics (Overall)

Maximum Attenuation @ 850nm: 3.5 dB/km

Maximum Attenuation @ 1300nm: 1.2 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 meters

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

### I100466 Fiber - TrayOptic®

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
I100466	1 FT	0.102 LB	ORANGE		REPLACED BY FD1Y004RF

Revision Number: 4 Revision Date: 08-04-2014

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