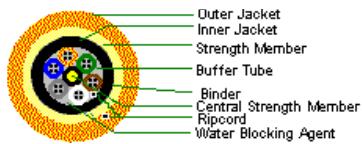


# Detailed Specifications & Technical Data

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## METRIC MEASUREMENT VERSION

I100266 Fiber - TrayOptic®



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Tray Optic Cable, 2-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:	2
Core Diameter:	62.5 +/- 2.5
Core Non-Circularity:	5° Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	1.8° 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

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
CPE - Chlorinated Polyethylene

Outer Jacket Color:	Orange
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#### 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

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

### I100266 Fiber - TrayOptic®

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
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#### 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 Aperature:	.275
Maximum Gigabit Ethernet Length @ 850nm:	300 meters
Maximum Gigabit Ethernet Length @ 1300nm:	550 meters

##### Fiber Coding MLT EMEA:

Fiber/Tube No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose
12	Aqua

#### Related Documents:

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

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
I100266	1 FT	0.102 LB	ORANGE		REPLACED BY FD1Y002RF

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

I100266 Fiber - TrayOptic®

Revision Number: 3 Revision Date: 08-04-2014

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