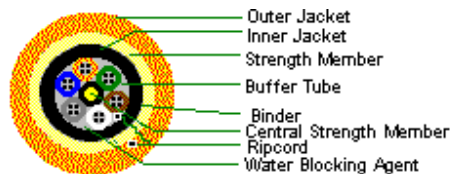


## I100255 Fiber - TrayOptic®



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)

#### Product Family - Note:

See the Related Document section below for the Technical Data on this Product Family.

#### Product Family - Riser:

Fiber Count	# Fibers/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: 2

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

<b>Buffer Tube Filling Material:</b>	Synthetic Thixotropic Gel
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**Buffer Tube Color Code Chart:**

Number	Color
1	Blue

<b>Core-clad Offset:</b>	1.5 Microns Maximum
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**Inner Jacket****Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

<b>Outer Jacket Color:</b>	Orange
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**Overall Cable**

<b>Overall Cabling Fillers:</b>	PVC
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<b>Overall Nominal Diameter:</b>	0.440 in.
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**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-40°C To +80°C
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<b>Operating Temperature Range:</b>	-40°C To +70°C
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<b>Bulk Cable Weight:</b>	88 lbs/1000 ft.
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<b>Min. Bend Radius (Install)/Minor Axis:</b>	8.800 in.
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<b>Min. Bend Radius for Long Term Application:</b>	6.600 in.
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<b>Crush Resistance:</b>	Passes TIA/EIA 455-41; 2000 N/cm
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<b>Impact Resistance:</b>	Passes TIA/EIA 455-25; 2000 Impacts @ 1.6 N-m
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<b>Solar Radiation Resistance:</b>	High
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<b>Water Penetration:</b>	Passes TIA/EIA 455-82
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<b>Compound Flow:</b>	Passes TIA/EIA 455-81
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<b>Max. Load for Installation:</b>	600 lbs.
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<b>Max. Load for Long Term Application:</b>	180 lbs.
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<b>Proof Test:</b>	100 kpsi
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**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

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

<b>C(UL) Flame Test:</b>	FT4
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<b>IEEE Flame Test:</b>	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
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**Suitability**

<b>Suitability - Burial:</b>	Yes
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**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
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<b>Maximum Attenuation @ 1300nm:</b>	1.0 dB/km
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<b>Point Loss @ 850nm &amp; 1300nm:</b>	0.2
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<b>Minimum Bandwidth @ 850nm:</b>	200 MHz*km
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<b>Minimum Bandwidth @ 1300nm:</b>	500 MHz*km
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<b>Refractive Index @ 850nm:</b>	1.496
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<b>Refractive Index @ 1300nm:</b>	1.491
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<b>Numerical Aperture:</b>	.275
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<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	300
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<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	550
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**Related Documents:**

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

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
I100255	1 FT	0.090 LB	ORANGE		T-OPT OM1 2F OFNR LT
I100255 003X	1 FT	0.000 LB	ORANGE		2G2 IN/OUT LT RSR ORG

Revision Number: 2    Revision Date: 05-03-2011

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