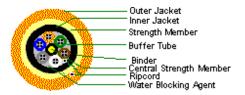
# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



I601866 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:	18	
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

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

Core-clad Offset: 1.5 microns Maximum

**Inner Jacket** 

Inner Jacket Ripcord: Polyester

**Outer Jacket** 

Outer Jacket Material:

Outer Jacket Material
CPE - Chlorinated Polyethylene

 Outer Jacket Ripcord:
 Polyester

 Outer Jacket Color:
 Orange

**Strength Member** 

# **Detailed Specifications & Technical Data**

## **ENGLISH MEASUREMENT VERSION**



# I601866 Fiber - TrayOptic®

Strength Member Material:	Fiberglass Epoxy Rod, Aramid Yarn			
Overall Cable				
Overall Cabling Fillers:	PVC			
Overall Nominal Diameter:	0.440 in.			
Mechanical Characteristics (Overall)				
Storage Temperature Range:	-40°C To +80°C			
Operating Temperature Range:	-40°C To +70°C			
Bulk Cable Weight:	83 lbs/1000 ft.			
Min. Bend Radius (Install)/Minor Axis:	8.800 in.			
Min. Bend Radius for Long Term Application:	6.600 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 Cor	mpliance (Overall)			
Applicable Standards & Environmental Progra				
NEC/(UL) Specification:	OFNR			
CEC/C(UL) Specification:	OFNR			
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			
Flame Test				
C(UL) Flame Test:	FT4			
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)			
Plenum/Non-Plenum	No			
Plenum (Y/N):	NU			
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			

# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



### 1601866 Fiber - TrayOptic®

Refractive Index @ 1300nm:	1.491
Numerical Aperature:	.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
1601866	1 FT	0.000	ORANGE		T-OPT OM1 18F OFNR LT
I601866 003X	1 FT	0.000 LB	ORANGE		62.5UM TRAYOPTIC CPE

Revision Number: 2 Revision Date: 03-18-2009

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