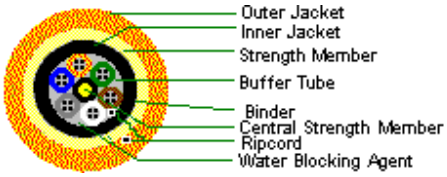
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

I602466 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:	24
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
4	Brown

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

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 Compliance (Overall)

Applicable Standards & Environmental Programs

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

Plenum (Y/N):	No

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
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
I602466	1 FT	0.101 LB	ORANGE		T-OPT OM1 24F OFNR LT

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