

**Picture
Not Available**

For more Information
please call

1-800-Belden1

Description

The BelOptix® Public Network Fiber Series addresses the converging technologies of CATV, Broadband and Telephony providing cable solutions for longhaul, local exchange and MAN/WAN applications.

Physical Characteristics (Overall):

Fiber Type	Single Mode 125/245 Micron, Non-Dispersion Shifted
Number of Fibers	144
Core Diameter	8.3
Mode Field Diameter @ 1310nm	9.2 +/- 0.4
Mode Field Diameter @1550nm	10.5 +/- 1.0
Clad Diameter	125 +/- 1
Clad Non-Circularity	1.0% Maximum
Core-clad Concentricity Error	0.8 Microns Maximum
Primary Coating Material	Acrylate
Primary Coating Diameter	245 +/- 10

Fiber Color Code Chart

Color
Blue
Orange
Green
Brown
Gray
White
Red
Black
Yellow
Purple
Rose
Aqua

Buffer Tube Diameter	3.0
Buffer Tube Material	PBT - Polybutylene Terephthalate
Buffer Tube Filling Material	Synthetic Thixotropic Gel

Buffer Tube Color Code Chart

Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet

Outer Jacket:

Outer Jacket Material

Outer Jacket Material

HDPE - High Density Polyethylene

Outer Jacket Nominal Wall Thickness .055

ENGLISH MEASUREMENT VERSION

LT144FM Fiber - Fiber Optic - Light Armor

Outer Jacket Ripcord Aramid

Outer Jacket Color Black

Strength Member:

Strength Member Material Fiberglass Epoxy Rod, Fiberglass Yarn

Armor:

Armor Type Corrugated

Armor Material Steel

Armor Thickness .006

Overall Cabling:

Overall Cabling Fillers Foam Polypropylene

Overall Nominal Diameter: 0.785 in.

Mechanical Characteristics (Overall):

Operating Temperature Range -40°C To +75°C

Storage Temperature Range -40°C To +75°C

Bulk Cable Weight: 204 lbs/1000 ft.

Min. Bend Radius (Install): 14.300 in.

Min. Bend Radius for Long Term Application: 7.200 in.

Crush Resistance Passes TIA/EIA 455-41

Impact Resistance Passes TIA/EIA 455-25

Solar Radiation Resistance High

Water Penetration Passes TIA/EIA 455-82

Compound Flow Passes TIA/EIA 455-81

Cyclic Flexing Passes TIA/EIA 455-105

Twist Bend Passes TIA/EIA 455-85

Max. Load for Installation: 600 lbs.

Max. Load for Long Term Application: 135 lbs.

Proof Test: 100 kpsi

Applicable Specifications and Agency Compliance (Overall):**Applicable Standards:**

Other Specification RUS PE-90 Listed

Suitability:

Suitability - Outdoor Excellent

Suitability - Aerial Fair

Suitability - Burial Excellent

Optical Characteristics (Overall):

Maximum Attenuation @ 1310nm 0.35

Maximum Attenuation @ 1550nm 0.25

Point Loss @ 1310 & 1550nm 0.1

Dispersion @ 1310nm < 3.5

Dispersion @ 1550 nm < 18

Dispersion Slope < 0.092

Zero Dispersion Wavelength 1300 - 1322

PMD

PMD (ps/nm-km)

< 0.5

Cutoff Wavelength < 1260

ENGLISH MEASUREMENT VERSION

LT144FM Fiber - Fiber Optic - Light Armor

Refractive Index @ 1310nm	1.466
Refractive Index @ 1550nm	1.467

Revision Number: 1 Revision Date: 05-14-2007

© 2007 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.