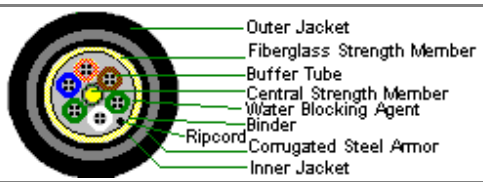
ENGLISH MEASUREMENT VERSION

A6012FM Fiber - Armored - Double Jacket



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	12
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 µm
Core-clad Concentricity Error	< 0.8 µm
Primary Coating Material	Acrylate
Primary Coating Diameter	245 +/- 10

Fiber Color Code Chart

Color
Blue
Orange
Green Brown
Gray
White

Buffer Tube Diameter	2.5
Buffer Tube Material	PBT - Polybutylene Terephthalate
Buffer Tube Filling Material	Synthetic Thixotropic Gel

Buffer Tube Color Code Chart

Number	Color
1	Blue
2	Orange

Inner Jacket:

Inner Jacket Ripcord	Polyester

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
HDPE - High Density Polyethylene

Outer Jacket Nominal Wall Thickness	.055
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:

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Overall Cabling Fillers	Foam Polypropylene
Overall Nominal Diameter:	0.571 in.

Mechanical Characteristics (Overall):

Operating Temperature Range	-40°C To +75°C
Storage Temperature Range	-40°C To +75°C
Bulk Cable Weight:	125 lbs/1000 ft.
Min. Bend Radius (Install):	11.500 in.
Min. Bend Radius for Long Term Application:	5.750 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
Sunlight Resistance	High

Plenum/Non-Plenum:

Plenum (Y/N)	N

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	
Dispersion Slope	0.092
Zero Dispersion Wavelength	1300 - 1322

PMD

PMD (ps/nm-km)
< 0.5

Cutoff Wavelength	< 1260
Refractive Index @ 1310nm	1.466
Refractive Index @ 1550nm	1.467

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

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