

L6024FM Fiber - Light Armor

**Picture
Not Available**

For more Information
please call

1-800-Belden1

Description

Physical Characteristics (Overall):

Fiber Type	Single Mode 125/245 Micron, Non-Dispersion Shifted
Number of Fibers	24
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
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
3	Green
4	Brown

Outer Jacket:

Outer Jacket Material

Outer Jacket Material
HDPE - High Density Polyethylene

Outer Jacket Nominal Wall Thickness	.055
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Outer Jacket Diameter

Nom. Dia. (in.)
0.487

Outer Jacket Ripcord	Aramid
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Outer Jacket Color	Black
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Strength Member:

Strength Member Material	Fiberglass Epoxy Rod, Fiberglass Yarn
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Armor:

Armor Type	Corrugated
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Armor Material	Steel
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Armor Thickness	.006
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Overall Cabling:

Overall Cabling Fillers	Foam Polypropylene
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Mechanical Characteristics (Overall):

Operating Temperature Range	-40°C To +75°C
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Storage Temperature Range	-40°C To +75°C
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Bulk Cable Weight:	93 lbs/1000 ft.
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Min. Bend Radius (Install):	9.800 in.
Min. Bend Radius for Long Term Application:	4.900 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
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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
Refractive Index @ 1310nm	1.466
Refractive Index @ 1550nm	1.467

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