

## M9W107 Fiber - Tight Buffer Distribution Cables - Riser (OFNR)



For more Information  
please call

1-800-Belden1

**Description:**

FiberExpress Optical Fiber Distribution Cables are designed for low to high fiber count in-building installations. They offer a high degree of flexibility for backbone and horizontal applications.

**Physical Characteristics (Overall)**

<b>Fiber Type:</b>	Single Mode/125/900 Micron
<b>Number of Fibers:</b>	24
<b>Core Diameter:</b>	8.3
<b>Mode Field Diameter @ 1310nm:</b>	9.2 +/- 0.4
<b>Mode Field Diameter @1550nm:</b>	10.5 +/- 1.0
<b>Clad Diameter:</b>	125 +/- 1
<b>Clad Non-Circularity:</b>	1% Maximum
<b>Core-clad Concentricity Error:</b>	0.6 Microns Maximum
<b>Primary Coating Material:</b>	Acrylate
<b>Primary Coating Diameter:</b>	245 +/- 10
<b>Secondary Coating Material:</b>	LSNH - Low Smoke Non-Halogen
<b>Secondary Coating Diameter:</b>	900 +/- 50

**Fiber Color Code Chart:**

Color
Blue
Orange
Green
Brown
Slate
White
Red
Black
Yellow
Violet
Rose
Aqua
Blue/Black
Orange/Black
Green/Black
Brown/Black
Slate/Black
White/Black
Red/Black
Black/White
Yellow/Black
Violet/Black
Rose/Black
Aqua/Black

**Core-clad Offset:** 0.6 Microns Maximum

**Outer Jacket**

**Outer Jacket Material:**

Outer Jacket Material

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LSNH - Low Smoke Non-Halogen

Outer Jacket Nominal Wall Thickness: 0.045

Outer Jacket Diameter:

Nom. Dia. (in.)

0.331

Outer Jacket Color: Yellow

**Strength Member**

Strength Member Material: Aramid Yarn

**Overall Cabling**

Overall Nominal Diameter: 0.331 in.

**Mechanical Characteristics (Overall)**

Storage Temperature Range: -40°C To +80°C

Operating Temperature Range: -20°C To +70°C

Min. Bend Radius (Install)/Minor Axis: 4.965 in.

Min. Bend Radius for Long Term Application: 3.310 in.

Crush Resistance: 2000 N/cm

Impact Resistance: 2000 Impacts w/ 1.6 N-m

Cyclic Flexing: 2000 Cycles min.

Max. Load for Installation: 390 lbs.

Proof Test: 100 kpsi

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: OFNR

CEC/C(UL) Specification: OFN

Telecommunications Standards: 568B

Other Specification: G.652.d

**Flame Test**

C(UL) Flame Test: FT4

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Optical Characteristics (Overall)**

Maximum Attenuation @ 1310nm: 0.8 dB/km

Maximum Attenuation @ 1550nm: 0.5 dB/km

Point Loss @ 1310 &amp; 1550nm: .1

Dispersion @ 1310nm: 3.5

Dispersion @ 1550 nm: 18

Dispersion Slope: .092

Zero Dispersion Wavelength: 1310 +/- 10

Cutoff Wavelength: 1260 Maximum

Refractive Index @ 1310nm: 1.4695

Refractive Index @ 1550nm: 1.44701

**Put Ups and Colors:**

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
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