

M9W612 Fiber - Tight Buffer Distribution Cables - Plenum (OFNP)

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)

Fiber Type:	Single Mode/125/900 Micron
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% Maximum
Core-clad Concentricity Error:	0.6 Microns Maximum
Primary Coating Material:	Acrylate
Primary Coating Diameter:	245 +/- 10
Secondary Coating Material:	Plenum Grade PVC - Polyvinyl Chloride
Secondary Coating Diameter:	900 +/- 50

Fiber Color Code Chart:

Color
Blue
Orange
Green
Brown
Slate
White

Core-clad Offset:	0.6 Microns Maximum
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Inner Jacket

Inner Jacket Nominal Wall Thickness:	0.018
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Inner Jacket Color Code Chart:

Number	Color
1	Blue
2	Orange
3	Green
4	Brown

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVDF - Fluorocopolymer

Outer Jacket Color:	Yellow
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Outer Jacket Separator Material:	Overall Polyester Tape, 25% Overlap
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M9W612 Fiber - Tight Buffer Distribution Cables - Plenum (OFNP)**Strength Member**

Strength Member Material:	Aramid Yarn
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Overall Cabling

Overall Nominal Diameter:	0.493 in.
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Mechanical Characteristics (Overall)

Storage Temperature Range:	-40°C To +80°C
Operating Temperature Range:	-20°C To +70°C
Bulk Cable Weight:	89 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	7.500 in.
Min. Bend Radius for Long Term Application:	5 in.
Crush Resistance:	2000 N/cm
Impact Resistance:	2000 Impacts w/ 1.6 N-m
Cyclic Flexing:	2000 Cycles min.
Max. Load for Installation:	1263 lbs.
Max. Load for Long Term Application:	225 lbs.
Proof Test:	100 kpsi

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

NEC/(UL) Specification:	OFNP
CEC/C(UL) Specification:	OFN
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
Telecommunications Standards:	568B
Other Specification:	ITU G.652.d

Flame Test

C(UL) Flame Test:	FT6
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Sunlight Resistance:	No

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Optical Characteristics (Overall)

Maximum Attenuation @ 1310nm:	0.8 dB/km
Maximum Attenuation @ 1550nm:	0.5 dB/km
Point Loss @ 1310 & 1550nm:	.1
Dispersion @ 1310nm:	3.5

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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

Notes (Overall)

Notes: The jackets of the 6 fiber groups are printed as follows: "ONE - BLUE", "TWO - ORANGE", "THREE - GREEN", & "FOUR - BROWN"

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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