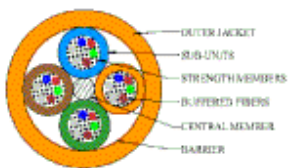


## M9A612 Fiber - Tight Buffer Distribution Cables - Plenum (OFNP)



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)**

<b>Fiber Type:</b>	50/125/900 Micron
<b>Number of Fibers:</b>	24
<b>Core Diameter:</b>	50 +/- 2.5
<b>Core Non-Circularity:</b>	5% Maximum
<b>Clad Diameter:</b>	125 +/- 2
<b>Clad Non-Circularity:</b>	1% Maximum
<b>Primary Coating Material:</b>	Acrylate
<b>Primary Coating Diameter:</b>	245 +/- 10
<b>Secondary Coating Material:</b>	LS PVC - Low Smoke Polyvinyl Chloride
<b>Secondary Coating Diameter:</b>	900 +/- 50

**Fiber Color Code Chart:**

Color
Blue
Orange
Green
Brown
Slate
White

<b>Core-clad Offset:</b>	1.5 Microns Maximum
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**Inner Jacket****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

<b>Outer Jacket Color:</b>	Orange
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**Strength Member**

<b>Strength Member Material:</b>	Aramid Yarn
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**Overall Cabling**

<b>Overall Nominal Diameter:</b>	0.493 in.
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**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-40°C To +80°C
<b>Operating Temperature Range:</b>	-20°C To +70°C

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<b>Bulk Cable Weight:</b>	89 lbs/1000 ft.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	7.500 in.
<b>Min. Bend Radius for Long Term Application:</b>	5 in.
<b>Crush Resistance:</b>	2000 N/cm
<b>Impact Resistance:</b>	2000 Impacts w/ 1.6 N-m
<b>Cyclic Flexing:</b>	2000 Cycles min.
<b>Max. Load for Installation:</b>	1263 lbs.
<b>Max. Load for Long Term Application:</b>	225 lbs.
<b>Proof Test:</b>	100 kpsi

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

<b>NEC/(UL) Specification:</b>	OFNP
<b>CEC/C(UL) Specification:</b>	OFN
<b>IEEE Specification:</b>	802.3Z
<b>Telecommunications Standards:</b>	568B

**Flame Test**

<b>C(UL) Flame Test:</b>	FT6
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**Suitability**

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes
<b>Sunlight Resistance:</b>	No

**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	Yes
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**Optical Characteristics (Overall)**

<b>Maximum Attenuation @ 850nm:</b>	3.5 dB/km
<b>Maximum Attenuation @ 1300nm:</b>	1.25 dB/km
<b>Point Loss @ 850nm &amp; 1300nm:</b>	.2
<b>Minimum Bandwidth @ 850nm:</b>	500 MHz*km
<b>Minimum Bandwidth @ 1300nm:</b>	500 MHz*km
<b>Refractive Index @ 850nm:</b>	1.483
<b>Refractive Index @ 1300nm:</b>	1.479
<b>Numerical Aperature:</b>	.2
<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	600
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	600

**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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