

## M9A034 Fiber - Tight Buffer Breakout Cables (2.5 mm subunits)-Plenum (OFNP)



For more Information  
please call

1-800-Belden1

**Description:**

FiberExpress Optical Fiber Breakout Cables are designed for low to medium fiber count in-building, harsh-environment installations. Breakout or fanout cables 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>	12
<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>	Plenum Grade PVC - Polyvinyl Chloride
<b>Secondary Coating Diameter:</b>	900 +/- 50
<b>Breakout Element Diameter:</b>	.098
<b>Breakout Element Material:</b>	Plenum Grade PVC - Polyvinyl Chloride

**Buffer Tube Color Code Chart:**

Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Rose

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

Outer Jacket Material
Plenum Grade PVC - Polyvinyl Chloride

<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>	0.475 in.
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**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-40°C To +80°C
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Operating Temperature Range:	-20°C To +70°C
Bulk Cable Weight:	85 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	7.200 in.
Min. Bend Radius for Long Term Application:	4.800 in.
Crush Resistance:	EIA-455-41, 2000 N/cm
Impact Resistance:	EIA-455-25, 2000 Impacts w/1.6 Cycles min.
Cyclic Flexing:	EIA-455-104 2000 Cycles min.
Max. Load for Installation:	600 lbs.
Max. Load for Long Term Application:	150 lbs.
Proof Test:	100 kpsi

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

NEC/(UL) Specification:	OFNP
CEC/C(UL) Specification:	OFN
IEEE Specification:	802.3Z

**Flame Test**

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

**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 @ 850nm:	3.5 dB/km
Maximum Attenuation @ 1300nm:	1.25 dB/km
Point Loss @ 850nm & 1300nm:	.2
Minimum Bandwidth @ 850nm:	500 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Refractive Index @ 850nm:	1.483
Refractive Index @ 1300nm:	1.479
Numerical Aperature:	.200
Maximum Gigabit Ethernet Length @ 850nm:	600
Maximum Gigabit Ethernet Length @ 1300nm:	600

**Notes (Overall)**

**Notes:** Note: Outdoor installation must be in conduit or protected from UV exposure.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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