

## M9B005 Fiber - Tight Buffer Breakout Cables (2.0 mm subunits)-Riser (OFNR)



OUTER JACKET  
SUB-UNIT JACKET  
ARAMID STRENGTH  
ELEMENTS  
STRENGTH MEMBERS  
TIGHT BUFFERED  
FIBER



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)

Fiber Type:	62.5/125/900 Micron
Number of Fibers:	2
Core Diameter:	62.5 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	2% 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
Slate

Core-clad Offset:	3 Microns Maximum
-------------------	-------------------

#### Inner Jacket

Inner Jacket Nominal Wall Thickness:	0.078
Inner Jacket Insulation Resistance:	Blue, Orange

#### Inner Jacket Color Code Chart:

Number	Color
1	Blue
2	Orange

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Nominal Wall Thickness:	0.045
--------------------------------------	-------

##### Outer Jacket Diameter:

Nom. Dia. (in.)
0.260

Outer Jacket Color:	Orange
---------------------	--------

#### Strength Member

Strength Member Material:	Aramid Yarn, Fiberglass Epoxy Rod
---------------------------	-----------------------------------

#### Overall Cabling

Overall Nominal Diameter:	0.260 in.
---------------------------	-----------

### Mechanical Characteristics (Overall)

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

## M9B005 Fiber - Tight Buffer Breakout Cables (2.0 mm subunits)-Riser (OFNR)

<b>Operating Temperature Range:</b>	-20°C To +70°C
<b>Min. Bend Radius (Install)/Minor Axis:</b>	3.900 in.
<b>Min. Bend Radius for Long Term Application:</b>	2.600 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>	180 lbs.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	OFNR
<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>	FT4
--------------------------	-----

#### Suitability

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

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
----------------------	----

### Optical Characteristics (Overall)

<b>Maximum Attenuation @ 850nm:</b>	3.50 dB/km
<b>Maximum Attenuation @ 1300nm:</b>	1.25 dB/km
<b>Point Loss @ 850nm &amp; 1300nm:</b>	0.2
<b>Minimum Bandwidth @ 850nm:</b>	200 MHz*km
<b>Minimum Bandwidth @ 1300nm:</b>	500 MHz*km
<b>Refractive Index @ 850nm:</b>	1.496
<b>Refractive Index @ 1300nm:</b>	1.491
<b>Numerical Aperature:</b>	.275
<b>Maximum Gigabit Ethernet Length @ 850nm:</b>	300
<b>Maximum Gigabit Ethernet Length @ 1300nm:</b>	550

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
--------	-------	-------------	-------	-------	-----------

Revision Number: 0    Revision Date: 05-14-2007

© 2010 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

---

## M9B005 Fiber - Tight Buffer Breakout Cables (2.0 mm subunits)-Riser (OFNR)