

## M9B042 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>	62.5/125/900 Micron
<b>Number of Fibers:</b>	12
<b>Core Diameter:</b>	62.5 +/- 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>	Engineering Thermoplastic
<b>Secondary Coating Diameter:</b>	900 +/- 50

**Fiber Color Code Chart:**

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

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

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

<b>Outer Jacket Color:</b>	Orange
----------------------------	--------

**Strength Member**

<b>Strength Member Material:</b>	Aramid Yarn
----------------------------------	-------------

**Overall Cabling**

<b>Overall Nominal Diameter:</b>	0.255 in.
----------------------------------	-----------

**Mechanical Characteristics (Overall)**

<b>Storage Temperature Range:</b>	-40°C To +80°C
<b>Operating Temperature Range:</b>	-20°C To +70°C
<b>Bulk Cable Weight:</b>	27 lbs/1000 ft.

**M9B042 Fiber - Tight Buffer Distribution Cables - Riser (OFNR)**

Min. Bend Radius (Install)/Minor Axis:	3.800 in.
Min. Bend Radius for Long Term Application:	2.600 in.
Max. Load for Installation:	300 lbs.
Max. Load for Long Term Application:	100 lbs.
Proof Test:	100 kpsi

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

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

**Flame Test**

C(UL) Flame Test:	FT4
-------------------	-----

**Suitability**

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

**Plenum/Non-Plenum**

Plenum (Y/N):	No
---------------	----

**Optical Characteristics (Overall)**

Maximum Attenuation @ 850nm:	3.5 dB/km
Maximum Attenuation @ 1300nm:	1.25 dB/km
Point Loss @ 850nm & 1300nm:	0.2
Minimum Bandwidth @ 850nm:	200 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Refractive Index @ 850nm:	1.496
Refractive Index @ 1300nm:	1.491
Numerical Aperature:	.275
Maximum Gigabit Ethernet Length @ 850nm:	300
Maximum Gigabit Ethernet Length @ 1300nm:	550

**Reference (Overall)**

Previous Part Number:	PTD6012
-----------------------	---------

**Put Ups and Colors:**

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

Revision Number: 2    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.

---

## M9B042 Fiber - Tight Buffer Distribution Cables - Riser (OFNR)