Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

M9C042 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)

Fiber Type:	50/125/900 Micron
Number of Fibers:	12
Core Diameter:	50 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	1% Maximum
Primary Coating Material:	Acrylate
Primary Coating Diameter:	245 +/- 10
Secondary Coating Material:	Engineering Thermoplastic
Secondary Coating Diameter:	900 +/- 50

Fiber Color Code Chart:

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

Core-clad Offset:	1.5 Microns Maximum

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Nominal Wall Thickness:	0.045

Outer Jacket Diameter:

Nom. Dia. (in.)
0.255

Outer Jacket Color:	Aqua

Strength Member

Strength Member Material:	Aramid Yarn

Overall Cabling

Overall Nominal Diameter:	0.255 in.

Mechanical Characteristics (Overall)

Storage Temperature Range:	-40°C To +80°C
Operating Temperature Range:	-20°C To +70°C
Bulk Cable Weight:	27 lbs/1000 ft.
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
Telecommunications Standards:	568B

Flame Test

C(UL) Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No

Plenum/Non-Plenum

Plenum (Y/N):	No

Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.50 dB/km
Maximum Attenuation @ 1300nm:	1.25 dB/km
Point Loss @ 850nm & 1300nm:	0.2
Minimum Bandwidth @ 850nm:	1500 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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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

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