

M9W616 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)

| | |
|---------------------------------------|---------------------------------------|
| Fiber Type: | Single Mode/125/900 Micron |
| Number of Fibers: | 48 |
| Core Diameter: | 8.3 |
| Mode Field Diameter @ 1310nm: | 9.2 +/- 0.4 |
| Mode Field Diameter @1550nm: | 10.5 +/- 1.0 |
| Clad Diameter: | 125 +/- 1 |
| Clad Non-Circularity: | 1% Maximum |
| Core-clad Concentricity Error: | 0.6 Microns 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 |
|--------|
| Blue |
| Orange |
| Green |
| Brown |
| Slate |
| White |
| Red |
| Black |
| Yellow |
| Violet |
| Rose |
| Aqua |

| | |
|--------------------------|---------------------|
| Core-clad Offset: | 0.6 Microns Maximum |
|--------------------------|---------------------|

Inner Jacket

| | |
|---|-------|
| Inner Jacket Nominal Wall Thickness: | 0.020 |
|---|-------|

Inner Jacket Color Code Chart:

| Number | Color |
|--------|--------|
| 1 | Blue |
| 2 | Orange |
| 3 | Green |
| 4 | Brown |

M9W616 Fiber - Tight Buffer Distribution Cables - Plenum (OFNP)**Outer Jacket**

Outer Jacket Material:

| |
|------------------------|
| Outer Jacket Material |
| PVDF - Fluorocopolymer |

Outer Jacket Nominal Wall Thickness: 0.030

Outer Jacket Diameter:

| |
|-----------------|
| Nom. Dia. (in.) |
| 0.599 |

Outer Jacket Color: Yellow

Outer Jacket Separator Material: Overall Polyester Tape, 25% Overlap

Strength Member

Strength Member Material: Aramid Yarn, Fiberglass Epoxy Rod

Overall Cabling

Overall Nominal Diameter: 0.599 in.

Mechanical Characteristics (Overall)

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

Operating Temperature Range: -20°C To +70°C

Min. Bend Radius (Install)/Minor Axis: 8.985 in.

Min. Bend Radius for Long Term Application: 6 in.

Crush Resistance: 2000 N/cm

Impact Resistance: 2000 Impacts w/ 1.6 N-m

Cyclic Flexing: 2000 Cycles min.

Max. Load for Installation: 1245 lbs.

Max. Load for Long Term Application: 311 lbs.

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

NEC/UL Specification: OFNR

CEC/C(UL) Specification: OFN

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2006

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Telecommunications Standards: 568B

Other Specification: ITU G.652.d

Flame Test

C(UL) Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: No

Plenum/Non-Plenum

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

Optical Characteristics (Overall)

| | |
|-------------------------------|-----------|
| Maximum Attenuation @ 1310nm: | 0.8 dB/km |
|-------------------------------|-----------|

| | |
|-------------------------------|-----------|
| Maximum Attenuation @ 1550nm: | 0.5 dB/km |
|-------------------------------|-----------|

Notes (Overall)

Notes: This cable is designed for use in indoor applications. It can also be used in interbuilding applications as outlined as technical advisory #21.

Put Ups and Colors:

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

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