

## B9W048 Fiber - Distribution Cables - Plenum



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Distribution Cable, 12-Fiber, OS2 OFNP, Tight Buffer, Indoor Rated with Yellow Jacket, High flexibility for backbone and horizontal applications.

### Physical Characteristics (Overall)

Product Family - Plenum:

| Fiber Count            | Type             | OM1 MM<br>62.5/125<br>1 Gb | OM2 MM<br>50/125<br>1 Gb | OM3 MM<br>50/125<br>10 Gb 300m | OM4 MM<br>50/125<br>10 Gb 450m | OS2 SM  |
|------------------------|------------------|----------------------------|--------------------------|--------------------------------|--------------------------------|---------|
| 2                      | Indoor           | B9B043                     | B9A043                   | B9C043                         | B9E043                         | B9W043  |
| 2                      | Indoor / Outdoor | B9B043T                    | B9A043T                  | B9C043T                        | B9E043T                        | B9W043T |
| 4                      | Indoor           | B9B044                     | B9A044                   | B9C044                         | B9E044                         | B9W044  |
| 4                      | Indoor / Outdoor | B9B044T                    | B9A044T                  | B9C044T                        | B9E044T                        | B9W044T |
| 6                      | Indoor           | B9B045                     | B9A045                   | B9C045                         | B9E045                         | B9W045  |
| 6                      | Indoor / Outdoor | B9B045T                    | B9A045T                  | B9C045T                        | B9E045T                        | B9W045T |
| 8                      | Indoor           | B9B046                     | B9A046                   | B9C046                         | B9E046                         | B9W046  |
| 8                      | Indoor / Outdoor | B9B046T                    | B9A046T                  | B9C046T                        | B9E046T                        | B9W046T |
| 12                     | Indoor           | B9B048                     | B9A048                   | B9C048                         | B9E048                         | B9W048  |
| 12                     | Indoor / Outdoor | B9B048T                    | B9A048T                  | B9C048T                        | B9E048T                        | B9W048T |
| 24*                    | Indoor           | B9B611                     | B9A611                   | B9C611                         | B9E611                         | B9W611  |
| 24*                    | Indoor/Outdoor   | B9B611T                    | B9A611T                  | B9C611T                        | B9E611T                        | B9W611T |
| 24                     | Indoor           | B9B612                     | B9A612                   | B9C612                         | B9E612                         | B9W612  |
| 24                     | Indoor/Outdoor   | B9B612T                    | B9A612T                  | B9C612T                        | B9E612T                        | B9W612T |
| 36                     | Indoor           | B9B614                     | B9A614                   | B9C614                         | B9E614                         | B9W614  |
| 36                     | Indoor/Outdoor   | B9B614T                    | B9A614T                  | B9C614T                        | B9E614T                        | B9W614T |
| 48                     | Indoor           | B9B616                     | B9A616                   | B9C616                         | B9E616                         | B9W616  |
| 48                     | Indoor/Outdoor   | B9B616T                    | B9A616T                  | B9C616T                        | B9E616T                        | B9W616T |
| 72                     | Indoor           | B9B620                     | B9A620                   | B9C620                         | B9E620                         | B9W620  |
| 72                     | Indoor/Outdoor   | B9B620T                    | B9A620T                  | B9C620T                        | B9E620T                        | B9W620T |
| 96                     | Indoor           | B9B623                     | B9A623                   | B9C623                         | B9E623                         | B9W623  |
| 96                     | Indoor/Outdoor   | B9B623T                    | B9A623T                  | B9C623T                        | B9E623T                        | B9W623T |
| 144                    | Indoor           | B9B621                     | B9A621                   | B9C621                         | B9E621                         | B9W621  |
| 144                    | Indoor/Outdoor   | B9B621T                    | B9A621T                  | B9C621T                        | B9E621T                        | B9W621T |
| * Single jacket design |                  |                            |                          |                                |                                |         |

Fiber Type: SM, (OS2)

Number of Fibers: 12

Mode Field Diameter @ 1310nm: 9.2

Clad Diameter: 125

Primary Coating Diameter: 250

Secondary Coating Diameter: 900

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material  
PVC - Polyvinyl Chloride

Outer Jacket Color: Yellow

### Strength Member

Strength Member Material: Aramid Yarn

### Overall Cable

Overall Nominal Diameter: 0.220 in.

### Mechanical Characteristics (Overall)

Storage Temperature Range: -40°C To +75°C

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|   |                 |
|---|-----------------|
| Installation Temperature Range:             | 0°C To +70°C    |
| Operating Temperature Range:                | 0°C To +70°C    |
| Bulk Cable Weight:                          | 20 lbs/1000 ft. |
| Min. Bend Radius/Minor Axis:                | 3.500 in.       |
| Min. Bend Radius for Long Term Application: | 2.500 in.       |
| Max. Load for Installation:                 | 100 lbs.        |
| Max. Load for Long Term Application:        | 30 lbs.         |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | OFNP       |
| CEC/C(UL) Specification:              | OFNP       |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 08/01/2008 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL Order #39 (China RoHS):           | Yes        |

#### Flame Test

|                 |              |
|-----------------|--------------|
| UL Flame Test:  | UL910 Plenum |
| CSA Flame Test: | FT6          |

#### Suitability

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | No  |
| Suitability - Aerial:  | No  |
| Suitability - Burial:  | No  |
| Sunlight Resistance:   | No  |

#### Plenum/Non-Plenum

|                    |        |
|--------------------|--------|
| Plenum (Y/N):      | Yes    |
| Non-Plenum Number: | B9W042 |

### Optical Characteristics (Overall)

|   |             |
|---|-------------|
| Maximum Attenuation @ 1310nm:             | .5 dB/km    |
| Maximum Attenuation @ 1550nm:             | .5 dB/km    |
| Maximum Gigabit Ethernet Length @ 1300nm: | 5000 meters |

#### Fiber Coding MLT EMEA:

| Fiber/Tube No. | Color  |
|----------------|--------|
| 1              | Blue   |
| 2              | Orange |
| 3              | Green  |
| 4              | Brown  |
| 5              | Slate  |
| 6              | White  |
| 7              | Red    |
| 8              | Black  |
| 9              | Yellow |
| 10             | Violet |
| 11             | Rose   |
| 12             | Aqua   |

### Related Documents:

[Distribution Cable.pdf](#) - Distribution Cable technical information.

### Put Ups and Colors:

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| Item # | Putup | Ship Weight | Color  | Notes | Item Desc            |
|--------|-------|-------------|--------|-------|----------------------|
| B9W048 | 1 FT  | 0.000       | YELLOW |       | REPLACED BY FSD012P9 |

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