

## B9B242 Fiber - Interlocked Armor Distribution Cable - Plenum



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Distribution Aluminum Interlocked Armor Cable, 24-Fiber, OM1 OFCP, Tight Buffer, Indoor Rated with Orange Jacket, Rugged construction that affords superior protection in adverse environments.

### 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 500m | OS2 - SM |
|-------------|----------------|----------------------------|--------------------------|--------------------------------|--------------------------------|----------|
| 6           | Indoor         | B9B240                     | B9A240                   | B9C240                         | B9E240                         | B9W240   |
| 6           | Indoor/Outdoor | B9B240T                    | B9A240T                  | B9C240T                        | B9E240T                        | B9W240T  |
| 12          | Indoor         | B9B241                     | B9A241                   | B9C241                         | B9E241                         | B9W241   |
| 12          | Indoor/Outdoor | B9B241T                    | B9A241T                  | B9C241T                        | B9E241T                        | B9W241T  |
| 24          | Indoor         | B9B243                     | B9A243                   | B9C243                         | B9E243                         | B9W243   |
| 24*         | Indoor         | B9B242                     | B9A242                   | B9C242                         | B9E242                         | B9W242   |
| 24*         | Indoor/Outdoor | B9B242T                    | B9A242T                  | B9C242T                        | B9E242T                        | B9W242T  |
| 36          | Indoor         | B9B244                     | B9A244                   | B9C244                         | B9E244                         | B9W244   |
| 48          | Indoor         | B9B245                     | B9A245                   | B9C245                         | B9E245                         | B9W245   |
| 72          | Indoor         | B9B246                     | B9A246                   | B9C246                         | B9E246                         | B9W246   |
| 72          | Indoor/Outdoor | B9B246T                    | B9A246T                  | B9C246T                        | B9E246T                        | B9W246T  |
| 96          | Indoor         | B9B247                     | B9A247                   | B9C247                         | B9E247                         | B9W247   |
| 144         | Indoor         | B9B248                     | B9A248                   | B9C248                         | B9E248                         | B9W248   |
| *           |                |                            |                          |                                |                                |          |

#### Product Family - Riser:

| 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 500m | OS2 - SM |
|-------------|----------------|----------------------------|--------------------------|--------------------------------|--------------------------------|----------|
| 6           | Indoor         | B9B230                     | B9A230                   | B9C230                         | B9E230                         | B9W230   |
| 6           | Indoor/Outdoor | B9B230T                    | B9A230T                  | B9C230T                        | B9E230T                        | B9W230T  |
| 12          | Indoor         | B9B231                     | B9A231                   | B9C231                         | B9E231                         | B9W231   |
| 12          | Indoor/Outdoor | B9B231T                    | B9A231T                  | B9C231T                        | B9E231T                        | B9W231T  |
| 24          | Indoor         | B9B233                     | B9A233                   | B9C233                         | B9E233                         | B9W233   |
| 24*         | Indoor         | B9B232                     | B9A232                   | B9C232                         | B9E232                         | B9W232   |
| 24          | Indoor/Outdoor | B9B232T                    | B9A232T                  | B9C232T                        | B9E232T                        | B9W232T  |
| 36          | Indoor         | B9B234                     | B9A234                   | B9C234                         | B9E234                         | B9W234   |
| 48          | Indoor         | B9B235                     | B9A235                   | B9C235                         | B9E235                         | B9W235   |
| 72          | Indoor         | B9B236                     | B9A236                   | B9C236                         | B9E236                         | B9W236   |
| 96          | Indoor         | B9B237                     | B9A237                   | B9C237                         | B9E237                         | B9W237   |
| 144         | Indoor         | B9B238                     | B9A238                   | B9C238                         | B9E238                         | B9W238   |
| *           |                |                            |                          |                                |                                |          |

Fiber Type: 62.5 Micron (OM1)

Number of Fibers: 24

Buffer Tube Material: Thermoplastic

### Outer Jacket

#### Outer Jacket Material:

**Outer Jacket Material**  
PVC - Polyvinyl Chloride

### Strength Member

Strength Member Material: Aramid Yarn

### Armor

Armor Type: Interlocked

Armor Material: Aluminum

### Overall Cable

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Overall Nominal Diameter: 0.631 in.

### Mechanical Characteristics (Overall)

|   |                  |
|---|------------------|
| Storage Temperature Range:                  | -40°C To +80°C   |
| Installation Temperature Range:             | 0°C To +60°C     |
| Operating Temperature Range:                | -20°C To +70°C   |
| Bulk Cable Weight:                          | 151 lbs/1000 ft. |
| Min. Bend Radius/Minor Axis:                | 12.600 in.       |
| Min. Bend Radius for Long Term Application: | 9.500 in.        |
| Max. Load for Installation:                 | 300 lbs.         |
| Max. Load for Long Term Application:        | 90 lbs.          |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | OFCP       |
| CEC/C(UL) Specification:              | OFCP       |
| 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        |
| MII Order #39 (China RoHS):           | Yes        |

#### Flame Test

|                 |              |
|-----------------|--------------|
| UL Flame Test:  | UL1666 Riser |
| 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 |
|---------------|-----|

### Optical Characteristics (Overall)

|   |            |
|---|------------|
| Maximum Attenuation @ 850nm:              | 3.5 dB/km  |
| Maximum Attenuation @ 1300nm:             | 1.2 dB/km  |
| Minimum Bandwidth @ 850nm:                | 200 MHz*km |
| Minimum Bandwidth @ 1300nm:               | 600 MHz*km |
| Maximum Gigabit Ethernet Length @ 850nm:  | 300 meters |
| Maximum Gigabit Ethernet Length @ 1300nm: | 550 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 |

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|    |      |
|----|------|
| 11 | Rose |
| 12 | Aqua |

### Related Documents:

[DOUBLE JACKETED INTERLOCKED ARMOR DISTRIBUTION CABLE.pdf](#) - Document PG 46 - DOUBLE JACKETED INTERLOCKED ARMOR DISTRIBUTION CABLE rev 8.pdf

### Put Ups and Colors:

| Item # | Putup | Ship Weight | Color  | Notes | Item Desc             |
|--------|-------|-------------|--------|-------|-----------------------|
| B9B242 | 1 FT  | 0.185 LB    | ORANGE |       | REPLACED BY F11D024A9 |

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9