**BELDEN**
SENDING ALL THE RIGHT SIGNALS

### B9C231  Fiber - Interlocked Armor Distribution Cable - Riser

For more Information
please call

1-800-Belden1

RoHS COMPLIANT
ENVIRONMENTALLY FRIENDLY

## General Description:

FiberExpress Distribution Aluminum Interlocked Armor Cable, 12-Fiber, OM3 OFCR, Tight Buffer, Indoor Rated with Aqua Jacket, Rugged construction that affords superior protection in adverse environments.

## Physical Characteristics (Overall)

### Product Family - Plenum:

| Fiber Count | Type | OM1 MM 62.5/125 1 Gb | OM2 MM 50/125 1 Gb | OM3 MM 50/125 10 Gb 300m | OM4 MM 50/125 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 62.5/125 1 Gb | OM2 MM 50/125 1 Gb | OM3 MM 50/125 10 Gb 300m | OM4 MM 50/125 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: | 50 Micron (OM3) |
|---|---|
| Number of Fibers: | 12 |
| Buffer Tube Material: | Thermoplastic |

## Outer Jacket

### Outer Jacket Material:

| Outer Jacket Material |
|---|
| PVC - Polyvinyl Chloride |

10-28-2019

## B9C231  Fiber - Interlocked Armor Distribution Cable - Riser

### Strength Member

| | |
|---|---|
| **Strength Member Material:** | Aramid Yarn |

### Armor

| | |
|---|---|
| **Armor Type:** | Interlocked |
| **Armor Material:** | Aluminum |

### Overall Cable

| | |
|---|---|
| **Overall Nominal Diameter:** | 15.748 mm |

## Mechanical Characteristics (Overall)

| | |
|---|---|
| **Storage Temperature Range:** | -40°C To +70°C |
| **Installation Temperature Range:** | 0°C To +60°C |
| **Operating Temperature Range:** | -20°C To +70°C |
| **Bulk Cable Weight:** | 223.230 Kg/Km |
| **Min. Bend Radius/Minor Axis:** | 314.960 mm |
| **Min. Bend Radius for Long Term Application:** | 236.220 mm |
| **Max. Load for Installation:** | 1334.460 N |
| **Max. Load for Long Term Application:** | 400.338 N |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

| | |
|---|---|
| **NEC/(UL) Specification:** | OFCR |
| **CEC/C(UL) Specification:** | OFC |
| **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:** | FT4 |

### Suitability

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

### Plenum/Non-Plenum

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

## Optical Characteristics (Overall)

| | |
|---|---|
| **Maximum Attenuation @ 850nm:** | 3.0 dB/km |
| **Maximum Attenuation @ 1300nm:** | 1.2 dB/km |

## B9C231  Fiber - Interlocked Armor Distribution Cable - Riser

| | |
|---|---|
| **Minimum Bandwidth @ 850nm:** | 1500 MHz*km |
| **Minimum Bandwidth @ 1300nm:** | 500 MHz*km |
| **Maximum Gigabit Ethernet Length @ 850nm:** | 1000 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 |
| 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 |
|---|---|---|---|---|---|
| B9C231 | 1 FT | 0.168 LB | AQUA | | REPLACED BY FI3D012F9 |

Revision Number: 2     Revision Date: 02-06-2013

# Mouser Electronics

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