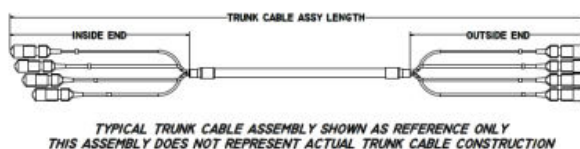
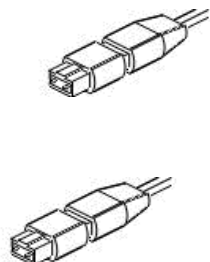


## FM3MMB1015M Cable Assemblies - FiberExpress MPO Cable Assembly



For more Information  
please call

1-800-Belden1



### General Description:

FX MPO TRUNK, OM3, MPO-12(MALE TO MALE), Type-B, 1 MPO (12 fibers), 15 M, OFNP, MINI-DISTRIBUTION (3.0MM SUB-UNITS), AQUA JACKET

### Usage (Overall)

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Suitable Applications:</b> | Data Centers, Main Equipment Rooms, Telecommunications Rooms      |
| <b>Related Parts:</b>         | FiberExpress Ultra & Ultra HD Pre-terminated Cassettes and Frames |

### Physical Characteristics (Connectivity)

#### Fiber Type

**Fiber Type:** 50 Micron (OM3)

#### Materials

##### Materials:

| Description | Material | Color |
|-------------|----------|-------|
| Jacket      | OFNP     | Aqua  |

#### Wiring Scheme

**Wiring Scheme:** TIA/EIA 568-C.3

#### Packaging

**Packaging:** Individually packaged

### Mechanical Characteristics (Connectivity)

|                                     |                |
|-------------------------------------|----------------|
| <b>Storage Temperature Range:</b>   | -40°C To +75°C |
| <b>Operating Temperature Range:</b> | -10°C To +60°C |

#### Environmental/Mechanical Characteristics:

| Test (Method)             | TIA 568-D.3                         | Belden                              |
|---------------------------|-------------------------------------|-------------------------------------|
| Thermal Cycling (FOTP-3)  | n/a                                 | -40 to 75°C cycling for 7 days      |
| Temperature Life (FOTP-4) | 60°C for 4 days                     | 85°C for 7 days                     |
| Humidity (FOTP-5)         | 90-95% at 40°C for 4 days           | 95% @ 75°C for 7 days               |
| Durability (FOTP-21)      | 500 cycles                          | 6 x 200 cycles (3 Elevations)       |
| Cable Retention (FOTP-6)  | 5.0 kg @ 0 deg.                     | 1.94 kg @ 90 deg.                   |
| Flex (FOTP-1)             | 0.5 kg @ 90° to -90° for 100 cycles | 0.9 kg @ 90° to -90° for 100 cycles |
| Twist (FOTP-36)           | 1.5 kg for 10 cycles                | 1.5 kg for 10 cycles                |

#### Overall Length Tolerances:

| Range             | Tolerance         | Range             | Tolerance       | Range                      | Tolerance                  |
|-------------------|-------------------|-------------------|-----------------|----------------------------|----------------------------|
| Sx & Dx Patchcord | Sx & Dx Patchcord | MPO Trunk         | MPO Trunk       | Multi-Fiber Cable Assembly | Multi-Fiber Cable Assembly |
| 0 to 2 meters     | +0.2 / -0 meter   | 0 to 2 meters     | +0.2 / -0 meter | 0 to 2 meters              | +0.2 / -0 meter            |
| 2.1 to 5.0 meters | +0.3 / -0 meter   | 2.1 to 5.0 meters | +0.3 / -0 meter | 2.1 to 5.0 meters          | +0.3 / -0 meter            |
| 5.1 to 40 meters  | +0.4 / -0 meter   | 5.1 to 20 meters  | +0.4 / -0 meter | 5.1 to 20 meters           | +0.4 / -0 meter            |
| Over 40.1 meters  | + 1.0% / -0%      | Over 20.1 meters  | + 1.0% / -0%    | Over 20.1 meters           | + 1.3 / -0 meter           |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| <b>UL Rating:</b>                            | Plenum                           |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                              |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 01/01/2006                       |
| <b>MII Order #39 (China RoHS):</b>           | Yes                              |
| <b>Safety Listing:</b>                       | ACA, Bi-national Standard Listed |

## FM3MMB1015M Cable Assemblies - FiberExpress MPO Cable Assembly

## Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

## Transmission Characteristics (Connectivity)

## Optical Connector Performance:

| Description                                        | OM1 (62.5 µm) | OM2 (50 µm) | OM3 (50 µm) | OM4 (50 µm) | OS2 (Singlemode) UPC | OS2 (Singlemode) APC |
|----------------------------------------------------|---------------|-------------|-------------|-------------|----------------------|----------------------|
| Maximum IL (dB) SingleFiber Connector LC - SC - ST | 0.25 dB       | 0.25 dB     | 0.25 dB     | 0.15 dB     | 0.35 dB              | 0.35 dB              |
| Typical RL (dB) SingleFiber connector LC - SC - ST | -30 dB        | -30 dB      | -30 dB      | -30 dB      | -55 dB               | -65 dB               |
| Maximum IL (dB) MultiFiber Connector MPO           | 0.5 dB        | 0.5 dB      | 0.35 dB     | 0.2 dB      | -                    | 0.75 dB              |
| Typical RL (dB) MultiFiber Connector MPO           | -30 dB        | -30 dB      | -30 dB      | -30 dB      | -                    | -60 dB               |

## Electrical Characteristics (Overall)

## Notes (Overall)

Notes: PEC CODE: NXC-UPFL-PGPNNN-BGPNNN-O-0015

## Product Family

## Put Ups and Colors:

| Item #      | Putup | Ship Weight | Color | Notes | Item Desc                    |
|-------------|-------|-------------|-------|-------|------------------------------|
| FM3MMB1015M | 1 EA  | 0.255 KG    |       |       | FMT OM3 MPO12(M-M) B 12F 15M |

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