

## AX200665 Cable Assemblies - FiberExpress Duplex Patch Cord



For more Information  
please call

1-800-Belden1



### General Description:

FiberExpress Duplex Patch Cord, LC-Duplex-LC-Duplex, PC-Polish, 3m (9ft 10in), Multimode, OM3, 50um Laser Optimized

### Usage (Overall)

|                               |  |
|-------------------------------|--|
| <b>Suitable Applications:</b> | Data Centers, Main Equipment Rooms, Telecommunications Rooms and Work Area   |
| <b>Related Parts:</b>         | FiberExpress Adapter Strips, FiberExpress Manager Modules and FiberExpress Ultra Frames and Cassettes. Workstation Outlets |

### Multi Conductor

#### Physical Characteristics

##### Overall Cabling

|                                 |   |
|---------------------------------|---|
| <b>Overall Cabling Fillers:</b> | Refer to cable Technical Specifications |
|---------------------------------|---|

##### Overall Diameter

|                                  |                   |
|----------------------------------|-------------------|
| <b>Overall Nominal Diameter:</b> | 0.079 x 0.157 in. |
|----------------------------------|-------------------|

### Physical Characteristics (Connectivity)

#### Fiber Type

|                    |                 |
|--------------------|-----------------|
| <b>Fiber Type:</b> | 50 Micron (OM3) |
|--------------------|-----------------|

#### Materials

##### Materials:

| Description     | Type       | Material         | Color |
|-----------------|------------|------------------|-------|
| Connector end 1 | LC-DUPLEX  | Plastic          | Beige |
| Boot end 1      |            | Rubber           | Gray  |
| Ferrule end 1   | 1.25mm     | Zirconia-Ceramic | White |
| Connector end 2 | LC-DUPLEX  | Plastic          | Beige |
| Boot end 2      |            | Rubber           | Gray  |
| Ferrule end 2   | 1.25mm     | Zirconia-Ceramic | White |
| Jacket          | 2.0 mm Zip | OFNR             | Aqua  |

#### Wiring Scheme

|                       |                 |
|-----------------------|-----------------|
| <b>Wiring Scheme:</b> | TIA/EIA 568-C.3 |
|-----------------------|-----------------|

#### Weight

|                |            |
|----------------|------------|
| <b>Weight:</b> | 0.128 lbs. |
|----------------|------------|

#### Packaging

|                   |   |
|-------------------|---|
| <b>Packaging:</b> | Individually packaged in a clear plastic bag. |
|-------------------|---|

### Mechanical Characteristics (Connectivity)

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

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

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|                  |                 |                  |                 |                  |                  |
|------------------|-----------------|------------------|-----------------|------------------|------------------|
| 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

|                                       |                                  |
|---------------------------------------|----------------------------------|
| UL Rating:                            | Riser                            |
| EU Directive 2002/95/EC (RoHS):       | Yes                              |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2006                       |
| MII Order #39 (China RoHS):           | EUP 50                           |
| Telecommunications Standards:         | TIA 568.C.3                      |
| Safety Listing:                       | ACA, Bi-national Standard Listed |

#### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

### Transmission Characteristics (Connectivity)

#### Optical Connector Performance:

| Description                 | OM1    | OM2    | OM3    | OM4     | OS2 / UPC | OS2 / APC |
|-----------------------------|--------|--------|--------|---------|-----------|-----------|
| Maximum Insertion Loss (dB) | 0.5 dB | 0.5 dB | 0.5 dB | 0.15 dB | 0.5 dB    | 0.5 dB    |
| Minimum Reflectance (dB)    | -20 dB | -20 dB | -20 dB | -20 dB  | -50 dB    | - 65 dB   |

### Notes (Overall)

#### Product Family

##### Product List:

| Description                        | Belden Part Number Multimode - OM1 - 62.5 μm | Belden Part Number Multimode - OM2 - 50 μm | Belden Part Number Multimode - OM3 - 50 μm | Single-mode - OS2 |
|------------------------------------|--|--|--|-------------------|
| <b>Duplex Patch Cord</b>           |  |  |  |                   |
| ST-ST - 2 m (6 ft.)                | 70102419                                     | AX200341                                   | AX200799                                   | AX200090          |
| ST-ST - 3 m (10 ft.)               | 70102420                                     | AX200459                                   | AX200795                                   | AX200091          |
| ST-ST - 5 m (16 ft.)               | 70102447                                     | AX200413                                   | AX200800                                   | AX200092          |
| 568SC-568SC - 2 m (6 ft.)          | AX200056                                     | AX200084                                   | AX200603                                   | AX200094          |
| 568SC-568SC - 3 m (10 ft.)         | AX200057                                     | AX200082                                   | AX200589                                   | AX200095          |
| 568SC-568SC - 5 m (16 ft.)         | AX200058                                     | AX200280                                   | AX200624                                   | AX200096          |
| LC duplex-LC duplex - 2 m (6 ft.)  | AX200517                                     | AX200527                                   | AX200664                                   | AX200507          |
| LC duplex-LC duplex - 3 m (10 ft.) | AX200518                                     | AX200528                                   | AX200665                                   | AX200508          |
| LC duplex-LC duplex - 5 m (16 ft.) | AX200519                                     | AX200529                                   | AX200666                                   | AX200509          |
| MTRJ-MTRJ - 2 m (6 ft.)            | AX101122                                     | AX101139                                   | AX200801                                   | AX101157          |
| MTRJ-MTRJ - 3 m (10 ft.)           | AX101123                                     | AX101138                                   | AX200802                                   | AX101156          |
| MTRJ-MTRJ - 5 m (16 ft.)           | AX101125                                     | AX101137                                   | AX200803                                   | AX101155          |
| <b>Hybrid Patch Cord</b>           |  |  |  |                   |
| 568SC-ST - 3 m (10 ft.)            | AX200060                                     | AX200196                                   | AX200900                                   | AX200421          |
| LC duplex-ST - 3 m (10 ft.)        | AX200699                                     | AX200695                                   | AX200809                                   | AX200698          |
| LC duplex-568SC - 3 m (10 ft.)     | AX200580                                     | AX200581                                   | AX200668                                   | AX200667          |
| MTRJ-ST - 3 m (10 ft.)             | AX101133                                     | AX101151                                   | AX200810                                   | AX101166          |
| MTRJ-568SC - 3 m (10 ft.)          | AX101128                                     | AX101143                                   | AX200797                                   | AX101161          |
| <b>Single-ended (pigtailed)</b>    |  |  |  |                   |
| ST-open - 2 m (6 ft.)              | 70100390                                     | AX200458                                   | AX200811                                   | AX200097          |
| SC-open - 2 m (6 ft.)              | 70101714                                     | AX200192                                   | AX200653                                   | AX200098          |
| LC-open - 2 m (6 ft.)              | AX200657                                     | AX200658                                   | AX200660                                   | AX200659          |
| MTRJ(m)-open - 3 m (10 ft.)        | AX101366                                     | AX101367                                   | AX200812                                   | AX101368          |

### Put Ups and Colors:

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

Revision Number: 0 Revision Date: 03-24-2010

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