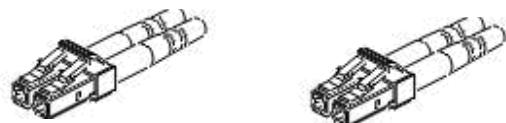


## AX200666 Cable Assemblies - FiberExpress Duplex Patch Cord



For more Information  
please call

1-800-Belden1



### Description:

FiberExpress Duplex Patch Cord, LC-Duplex-LC-Duplex, PC-Polish, 5m (16ft 5in), Multimode, OM3, 50um Laser Optimized

### Usage (Overall)

**Suitable Applications:** Data Centers, Main Equipment Rooms, Telecommunications Rooms and Work Area

**Related Parts:** FiberExpress Adapter Strips, FiberExpress Manager Modules and FiberExpress Ultra Frames and Cassettes. Workstation Outlets

### Multi Conductor

#### Physical Characteristics

##### Overall Cabling

**Overall Cabling Fillers:** Refer to cable Technical Specifications

##### Overall Diameter

**Overall Nominal Diameter:** 0.079 x 0.157 in.

### Physical Characteristics (Connectivity)

#### Fiber Type

**Fiber Type:** 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

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

#### Weight

**Weight:** 0.159 lbs.

#### Packaging

**Packaging:** Individually packaged in a clear plastic bag.

### Mechanical Characteristics (Connectivity)

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

**Operating Temperature Range:** -40°C To +75°C

#### Environmental/Mechanical Characteristics:

| Test (Method)             | TIA 568-C.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                |

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|                          |                                     |                                      |
|--------------------------|-------------------------------------|--------------------------------------|
| Humidity (FOTP-5)        | 90-95% a40°C for 4 days             | 95% a75°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.   | 6.8 kg @ 0 deg., 3.4 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      | Max. Length Tolerance | Min. Length Tolerance |
|------------|-----------------------|-----------------------|
| 0 - 2m     | 0.2m                  | -0.0m                 |
| 2.1 - 4.9m | 0.3m                  | -0.0m                 |
| 5 - 40m    | 0.4m                  | -0.0m                 |
| Over 40m   | 1.0 percent           | -0.0 percent          |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| <b>UL Rating:</b>                            | Riser                            |
| <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>           | EUP 50                           |
| <b>Telecommunications Standards:</b>         | TIA 568.C.3                      |
| <b>Safety Listing:</b>                       | ACA, Bi-national Standard Listed |

### Suitability

|                              |     |
|------------------------------|-----|
| <b>Suitability - Indoor:</b> | Yes |
|------------------------------|-----|

## Transmission Characteristics (Connectivity)

### Optical Connector Performance:

| Description                 | Multimode PC Polish | Single-mode SPC Polish | Single-mode UPC Polish | Single-mode APC Polish |
|-----------------------------|---------------------|------------------------|------------------------|------------------------|
| Maximum Insertion Loss (dB) | 0.5                 | 0.5                    | 0.5                    | 0.5                    |
| Minimum Reflectance (dB)    | -20                 | -40                    | -55                    | -65                    |

## 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 |
|------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------|
| Duplex Patch Cord                  |                                              |                                            |                                            |                   |
| 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          |
| Hybrid Patch Cord                  |                                              |                                            |                                            |                   |
| 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          |

**AX200666 Cable Assemblies - FiberExpress Duplex Patch Cord**

|                             |          |          |          |          |
|-----------------------------|----------|----------|----------|----------|
| Single-ended (pigtailed)    |          |          |          |          |
| 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 |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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