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### General Description:

Optimax Field Installable Connector, SC, Single-mode (OS2), for 900 μm tight buffered fiber

### Usage (Overall)

**Suitable Applications:** Indoor termination of fiber cables: Patch panels, Communication outlets, Fiber-to-the-desk, Distribution frames, Direct termination to equipment, Fiber cable repair, Campus, Customer premise / Access network, Data Centers

**Related Parts:** Accessory kit for jacketed termination, Installation Tool kits, Breakout kits

### Physical Characteristics (Connectivity)

#### Dimensions

Dimensions:

| Height (in.) | Width (in.) | Length (in.) |
|--------------|-------------|--------------|
| 0.362        | 0.394       | 1.752        |

#### Materials

Materials:

| Description    | Type | Material | Color |
|----------------|------|----------|-------|
| Connector Body | N/A  | Plastic  | Blue  |

#### Included Parts

**Included Parts:** 900 micron boot

#### Packaging

**Packaging:** Individually packaged in a plastic bag. Standard pack of 5 units, 500 units/box

### Mechanical Characteristics (Connectivity)

**Storage Temperature Range:** -40°C To +70°C

**Installation Temperature Range:** -10°C To +60°C

**Operating Temperature Range:** -10°C To +60°C

#### Mechanical Specifications:

| Parameters                                      | Specifications                                    |
|---|---|
| Interconnection Compatibility                   | LC, SC and ST-Compatible connectors               |
| Field Assembly Time                             | 1 minute for 900 μm, 3 minutes for jacketed fiber |
| Durability (Multimode)                          | Less than 0.2 dB change, 500 cycles               |
| Durability (Single-mode)                        | Less than 0.3 dB change, 500 cycles               |
| Nominal Fiber OD                                | 125 μm  |
| Storage Temperature                             | -40°F to 149°F (-40°C to 65°C)                    |
| Operating Temperature                           | 32°F to 145°F (0°C to 60°C)                       |
| Tensile Load on jacketed fiber                  | 50 N (11.2 lbs. / 5.1 Kg)                         |
| Tensile Load on 900 micron tight buffered fiber | 6.7 N (1.5 lbs. / 0.68 Kg)                        |
| Ferrule   | Ceramic   |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 07/01/2006

**MIL Order #39 (China RoHS):** EUP 50

**Telecommunications Standards:** TIA 568.C.3

**Safety Listing:** ACA

#### Suitability

**Suitability - Indoor:** Yes - Indoor

### Transmission Characteristics (Connectivity)

Transmission Specifications:

## AX101792 Modular Connectors - Optimax Connector

| Parameters                                 | Specifications      |
|--|---------------------|
| Insertion Loss (Multimode and Single-mode) | 0.3 dB (typical)    |
| Reflectance (Multimode)                    | -30 dB (typical)    |
| Reflectance (Single-mode)                  | -40 dB (guaranteed) |

### Notes (Overall)

**Notes:** Please see Installation Instruction Manual AX103148 (included in Installation Tool Kits, reference to NP271)

**Notes (Cont'd.):** For Optimax termination on jacketed fibers, please use the appropriate Accessory Kit LC - AX101984 SC - AX101794 ST - AX101793

### Product Family

#### Part Number List:

| Description                      | Belden Part Number |
|----------------------------------|--------------------|
| LC 62.5 µm, Multimode            | AX101981           |
| LC 50 µm, Multimode              | AX101982           |
| LC Single-mode                   | AX101983           |
| SC 62.5 µm, Multimode            | AX100029           |
| SC 50 µm, Multimode              | AX101077           |
| SC Single-mode                   | AX101792           |
| ST Compatible 62.5 µm, Multimode | A0408835           |
| ST Compatible 50 µm, Multimode   | AX101075           |
| ST Compatible Single-mode        | AX101791           |

### Put Ups and Colors:

| Item #   | Putup | Ship Weight | Color | Notes | Item Desc             |
|----------|-------|-------------|-------|-------|-----------------------|
| AX101792 | 1 EA  | 0.007 LB    |       |       | OPTIMAX SC SINGLEMODE |

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