

AX100029 Modular Connectors - Optimax Connector



For more Information
please call

1-800-Belden1

**General Description:**

Optimax Field Installable Connector, SC, Multimode (OM1), for 900 μ m 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 (mm) | Width (mm) | Length (mm) |
|-------------|------------|-------------|
| 9.200 | 10.000 | 44.500 |

Materials**Materials:**

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

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 μ m, 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 μ m |
| 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

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| | |
|-------------------------------|-------------|
| MII 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:

| 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 μ m, Multimode | AX101981 |
| LC 50 μ m, Multimode | AX101982 |
| LC Single-mode | AX101983 |
| SC 62.5 μ m, Multimode | AX100029 |
| SC 50 μ m, Multimode | AX101077 |
| SC Single-mode | AX101792 |
| ST Compatible 62.5 μ m, Multimode | A0408835 |
| ST Compatible 50 μ m, Multimode | AX101075 |
| ST Compatible Single-mode | AX101791 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------|-------|-------------|-------|-------|--------------------------|
| AX100029 | 1 EA | 0.008 LB | | | OPTIMAX SC 62.5/125UMCON |

Revision Number: 0 Revision Date: 11-11-2014

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