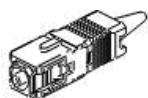


AX101077 Modular Connectors - Optimax Connector



For more Information
please call

1-800-Belden1

**General Description:**

Optimax Field Installable Connector, SC, Multimode 50 µm (OM2, OM3 and OM4), 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 | 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 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 |
|------------------------------|--------------|

AX101077 Modular Connectors - Optimax Connector

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 |
|----------|-------|-------------|-------|-------|--------------------------------|
| AX101077 | 1 EA | 0.018 LB | | | OPTIMAX 50UM SC CONN.900UM KIT |

Revision Number: 0 Revision Date: 09-06-2013

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