

## AX101982 Modular Connectors - Optimax Connector



For more Information  
please call

1-800-Belden1

**General Description:**

Optimax Field-Installable Connector, LC, Multimode 50  $\mu\text{m}$  (OM2, OM3 and OM4), for 900  $\mu\text{m}$  tight buffered fiber

**Usage (Overall)**

<b>Suitable Applications:</b>	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
<b>Related Parts:</b>	Accessory kit for jacketed termination, Installation Tool kits, Breakout kits

**Physical Characteristics (Connectivity)****Dimensions**

Dimensions:

Height (in.)	Width (in.)	Length (in.)
0.176	0.176	1.514

**Materials**

Materials:

Description	Type	Material	Color
Connector Body	N/A	Plastic	Beige

**Included Parts**

<b>Included Parts:</b>	900 micron boot
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**Packaging**

<b>Packaging:</b>	Individually packaged in a plastic bag. Standard pack of 5 units, 500 units/box
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**Mechanical Characteristics (Connectivity)**

<b>Storage Temperature Range:</b>	-40°C To +70°C
<b>Installation Temperature Range:</b>	-10°C To +60°C
<b>Operating Temperature Range:</b>	-10°C To +60°C

**Mechanical Specifications:**

Parameters	Specifications
Interconnection Compatibility	LC, SC and ST-Compatible connectors
Field Assembly Time	1 minute for 900 $\mu\text{m}$ , 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 $\mu\text{m}$
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**

<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	07/01/2006
<b>MII Order #39 (China RoHS):</b>	EUP 50
<b>Safety Listing:</b>	ACA

**Suitability**

<b>Suitability - Indoor:</b>	Yes - Indoor
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**Transmission Characteristics (Connectivity)**

Transmission Specifications:

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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). Please also reference to Product Bulletin 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 $\mu$ m, Multimode	AX101981
LC 50 $\mu$ m, Multimode	AX101982
LC Single-mode	AX101983
SC 62.5 $\mu$ m, Multimode	AX100029
SC 50 $\mu$ m, Multimode	AX101077
SC Single-mode	AX101792
ST Compatible 62.5 $\mu$ m, Multimode	A0408835
ST Compatible 50 $\mu$ m, Multimode	AX101075
ST Compatible Single-mode	AX101791

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX101982	1 EA	0.007 LB			OPTIMAX 50 UM LC CONNECT

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