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1-800-Belden1



General Description:

Optimax Field-Installable Connector, LC, 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 (mm)	Width (mm)	Length (mm)
4.470	4.470	38.460

Materials

Materials:

Description	Type	Material	Color
Connector Body	N/A	Plastic	Beige

Included Parts

Included Parts:	900 micron boot
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Packaging

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

Suitability

Suitability - Indoor:	Yes - Indoor
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Transmission Characteristics (Connectivity)

Transmission Specifications:

AX101982 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). 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 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
AX101982	1 EA	0.007 LB			OPTIMAX 50 UM LC CONNECT

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