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1-800-Belden1



General Description:

Optimax Field Installable Connector, LC, Single-Mode 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.)
0.176	0.176	1.514

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

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:

AX101983 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
AX101983	1 EA	0.007 LB			OPTIMAX SM LC CONNECTOR

Revision Number: 0 Revision Date: 06-14-2010

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