Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

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AX100029 Modular Connectors - Optimax Connector

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1-800-Belden1

RoHS COMPLIANT
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General Description:

Optimax Field Installable Connector, SC, Multimode (OM1), 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)
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 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

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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 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
AX100029	1 EA	0.008 LB			OPTIMAX SC 62.5/125UMCON

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

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