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1-800-Belden1



### General Description:

Optimax Field Installable Connector, SC, Multimode (OM1), for 900  $\mu$ m 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 $\mu$ 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 $\mu$ 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

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 07/01/2006

## AX100029 Modular Connectors - Optimax Connector

MII Order #39 (China RoHS):	EUP 50
Telecommunications Standards:	TIA 568.C.3
Safety Listing:	ACA

### Suitability

Suitability - Indoor:	Yes - Indoor
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### 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 $\mu$ 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
AX100029	1 EA	0.008 LB			OPTIMAX SC 62.5/125UMCON

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