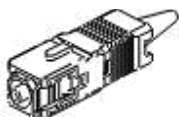


## AX101077 Modular Connectors - Optimax Connector



For more Information  
please call

1-800-Belden1

**Description:**

Optimax Field Installable Connector, SC, Multimode 50  $\mu$ m (OM2-OM3), 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 (in.)	Width (in.)	Length (in.)
0.362	0.394	1.752

**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

## AX101077 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
-----------------------	--------------

## 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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
AX101077	1 EA	0.018 LB			OPTIMAX 50UM SC CONN.900UM KIT

Revision Number: 0      Revision Date: 12-03-2010

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.