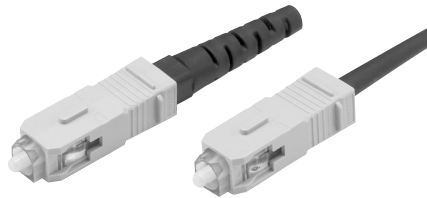


## specifications

SC fiber optic connectors shall be compliant with TIA FOCIS-3. SC connectors shall contain a factory terminated pre-polished multimode fiber, requiring no field polishing and no adhesive. The fiber shall terminate in a 2.5mm ferrule and have a typical insertion loss of 0.3dB (62.5/125µm) or 0.35dB (50/125µm) per connector.



# SC OPTI-CRIMP® Fiber Optic Connector — Pre-polished Crimp

## technical information

<b>Fiber compatibility:</b>	62.5/125µm and 50/125µm multimode versions available
<b>Fiber cable type:</b>	Tight-buffered cable only (3.0mm jacketed or 900µm)
<b>Ferrule type:</b>	Zirconia ceramic with a pre-polished fiber stub
<b>Insertion loss:</b>	0.3dB typical (62.5/125µm), 0.35dB typical (50/125µm)
<b>Return loss:</b>	Greater than 20dB

## key features and benefits

<b>Pre-polished fiber stub</b>	Eliminates polishing steps, speeding installation
<b>VFL verification during crimp process</b>	Provides installer with a visual signal when optimal continuity is made and the crimp step can be performed
<b>Mechanical crimp cable retention</b>	Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation
<b>Proven 2.5mm ceramic ferrules</b>	Uses standard termination tools and procedures; provides strength and reliability
<b>Robust design</b>	Protects fibers from mechanical and environmental stress
<b>Non-optical disconnect</b>	Network reliability; maintains data transmission under tensile loads (jacketed cable only)
<b>FOCIS-3 compliant</b>	Ensures intermatibility with all FOCIS-3 compliant components
<b>Exceeds TIA/EIA-568-B.3</b>	Network reliability assured as defined by TIA

## applications

The SC OPTI-CRIMP Fiber Optic Connector improves an industry standard design. Elimination of end face polishing and adhesive provides for easier, faster installation, especially in remote areas and confined spaces. This reduces installation

time over standard field polish SC connectors by 50%. SC Fiber Optic Connectors are widely used in fiber optic backbone and horizontal applications for high-speed data transmissions.

### installer tips

**Terminate on tight-buffered cable only. Always use FVFL Visual Fault Locator during termination.**

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### SC OPTI-CRIMP Multimode Connectors

<b>62.5/125µm black boot:</b>	FSCMMBL
<b>62.5/125µm red boot:</b>	FSCMMRD
<b>50/125µm black boot:</b>	FSCMM50BL
<b>50/125µm red boot:</b>	FSCMM50RD

### SC Adapter Modules with Phosphor Bronze Split Sleeves

<b>Duplex:</b>	CMDEISC**
<b>Simplex:</b>	CMSEISC**

### SC Adapter Modules with Zirconia Ceramic Split Sleeves

<b>Duplex:</b>	CMDBUSCZ**
<b>Simplex:</b>	CMSBUSCZ**

### Multimode Patch Cords and Pigtails

<b>Duplex SC to SC:</b>	FAD3-3M‡
<b>Simplex SC to SC:</b>	FAS3-3M‡
<b>Simplex 900µm buffered SC pigtail:</b>	FAB3-NM‡
<b>Duplex ST* to SC:</b>	FAD2-3M‡
<b>Duplex FJ® plug to SC:</b>	FAD6P-3M‡

^Available in 62.5/125µm (6) and 50/125µm (5).

‡Patch cords are available in 1, 2, 3, 5 and 10 meter lengths, and pigtails are available in 1, 2 and 3 meter lengths.

### Opti-Crimp Termination Tooling

**Termination kit:** FJMVKIT  
To upgrade from FJKITG, purchase FJQCVR fiber cleaver tool and FVFLKIT visual fault locator kit.

To upgrade from FJMVKIT, purchase FVFLKIT visual fault locator kit.

### \*\*Substitute for Colors:

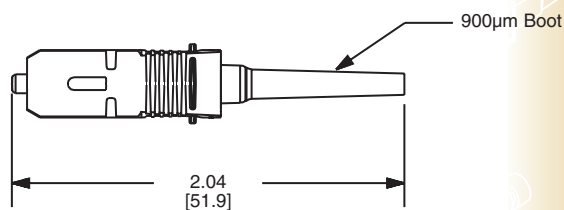
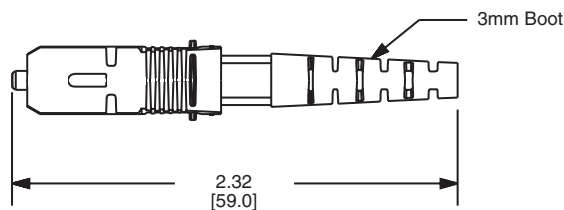
EI = Electric Ivory  
BU = Blue  
BL = Black  
IW = Off White  
AW = Arctic White

# SC OPTI-CRIMP® Fiber Optic Connector — Pre-polished Crimp

## Standards Compliant Connector Performance

TIA 455	Description	Test Procedure and TIA/EIA-568-B.3 Required Performance	Typical Performance
1	Flex	100 cycles; -180 to 180 degrees; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
2	Impact	8 drops from 1.8m; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
4	High Temperature	4 days at 60°C followed by post-conditioning FOTP-6; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
5	Humidity	4 days at 90-95% RH and 40°C; max. insertion loss 0.75dB, min. return loss 20dB, max. change during test 0.4dB	< 0.1dB additional loss
6	Cable Retention	11.24 lbs. at 0 degrees, 4.4 lbs. at 90 degrees; max. insertion loss 0.75dB, min. return loss 20dB, max. additional loss 0.5dB	< 0.1dB additional loss
21	Durability	500 mate/unmate cycles; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
34	<b>Insertion Loss</b>	max. insertion loss 0.75dB	<b>0.3dB typical (62.5/125µm), 0.35dB typical (50/125µm)</b>
36	Twist	10 cycles; 2.5 cw, 5 ccw, 2.5 cw; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
107	<b>Return Loss</b>	20dB minimum	<b>&gt;20dB</b>
185	Coupling Strength	7.4 lbs. at 0 degrees; max. insertion loss 0.75dB, min. return loss 20dB	< 0.1dB additional loss
188	Low Temperature	4 days at 0°C; max. insertion loss 0.75dB, min. return loss 20dB, max. change during test 0.3dB	< 0.1dB additional loss

NOTE: Multimode tests performed at 850 and 1300nm.



Dimensions are in inches (Dimensions in brackets are in millimeters)

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