PANDUIT®
NETWORK CONNECTIVITY GROUP
SPEC SHEET

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

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

key features and benefits

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

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

SC Adapter Modules with Phosphor Bronze Split Sleeves

Duplex:	CMDEISC**
Simplex:	CMSEISC**

SC Adapter Modules with Zirconia Ceramic Split Sleeves

Duplex:	CMDBUSCZ**
Simplex:	CMSBUSCZ**

Multimode Patch Cords and Pigtails

Duplex SC to SC:	F^D3-3M‡
Simplex SC to SC:	F^S3-3M‡
Simplex 900µm buffered SC pigtail:	F^B3-NM‡
Duplex ST* to SC:	F^D2-3M‡
Duplex FJ® plug to SC:	F^D6P-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 FJMKIT, purchase FVFLKIT visual fault locator kit.

***Substitute for Colors:**

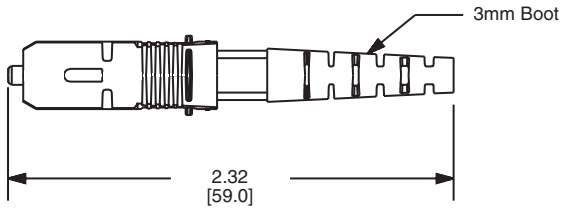
EI = Electric Ivory
BU = Blue
BL = Black
IW = Off White
AW = Arctic White

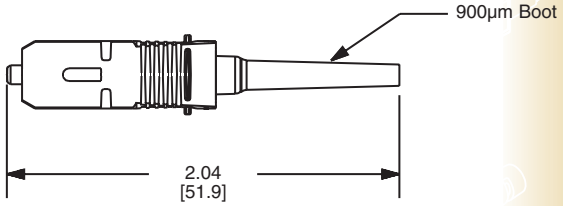
SC *OPTI-CRIMP*® Fiber Optic Connector — Pre-polished Crimp

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	**Insertion Loss**	max. insertion loss 0.75dB	**0.3dB typical (62.5/125µm), 0.35dB typical (50/125µm)**
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	**Return Loss**	20dB minimum	**>20dB**
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)

For a copy of *PANDUIT* product warranties, log on to www.panduit.com/warranty

For a full line catalog (SA-NC10CB01A), email us at csteam@panduit.com or call Customer Service at 800-777-3300.

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