

# SC Fiber Optic Connectors

## SPECIFICATIONS

SC field polish connectors are TIA/EIA-604 FOCIS-3 compliant. SC simplex and duplex connectors are field terminable. The fibers shall terminate in 0.98 in. (2.5mm) ceramic ferrules with non-optical disconnect functionality and an average insertion loss of 0.15dB (singlemode) per mated pair.



## TECHNICAL INFORMATION

<b>Standards requirements:</b>	TIA/EIA-604 FOCIS-3 compliant; exceeds ANSI/TIA-568.3-D requirements
<b>Fiber compatibility:</b>	50/125µm OM2
<b>Fiber cable type:</b>	900µm tight-buffered cable recommended
<b>Fiber cable size:</b>	0.062 in. - 0.078 in. (1.6mm - 2.0mm) and 0.118 in. (3.0mm) jacketed cable
<b>Ferrule type:</b>	Zirconia ceramic ferrule
<b>Insertion loss:</b>	0.1dB average (multimode), 0.15dB (singlemode)
<b>Return loss:</b>	>20dB (multimode), >40dB (singlemode)

## KEY FEATURES AND BENEFITS

<b>Free floating housing:</b>	Ensures complete latching even when inserted by the boot; valuable in high-density spacing applications
<b>Full length adhesive fill tube:</b>	Prevents adhesive from entering internal cavity of connector to reduce installer error
<b>Non-optical disconnect:</b>	Maintains data transmission under tensile loads for jacketed cable for network reliability
<b>Anaerobic adhesive field installation:</b>	Simplifies and reduces installation time by 50% compared to heat cured epoxy terminations; curing oven/time not required
<b>High temperature thermoplastic design</b>	Allows use of high glass transition temperature epoxies with cure temperatures up to 302°F (150°C)

## APPLICATIONS

SC Fiber Optic Connectors are used for equipment cross-connects or interconnects in backbone, horizontal and work area applications. SC connectors are recommended by TIA/EIA-568-B.3 at the wall outlet and the telecommunications closet. Multimode connectors provide a robust and easy to terminate solution for lower cost fiber-to-the-desk applications. Singlemode connectors provide added bandwidth capacity for data hungry applications.

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**Multimode (black boots):** FSCM5BL

### HD Connector Removal Tool

**For LC and SC:** PCRT1

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## PERFORMANCE INFORMATION

Test Parameter	Description	Result
Qualification test suite (TIA/EIA-568-B.3 requirements)	Complete testing protocol per TIA/EIA-568-B.3 using TIA/EIA FOTPs that include mechanical, environmental and optical test sequences	Compliant; exceeds TIA/EIA-568-B.3 requirements
Connector intermatability	Dimensional and material compliance to TIA/EIA standards	All connectors are FOCIS compliant with TIA/EIA-604-3

## SELECTION INFORMATION

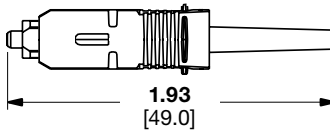
Part Number	Connector Type	Cable Type in. (mm)	Fiber	Ferrule	Housing Color	Boot Color	Average Insertion Loss*	Return Loss
FSCM5BL	Simplex	900µm buffered fiber and 3.0mm jacketed cable	Multimode	Zirconia Ceramic	Black	Black	0.1dB	>20

\*All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.

## ENGINEERING DRAWING

### SC Simplex Connector

#### For 900µm Fiber and 3.0mm Jacketed Cable



Dimensions are in inches. [Dimensions in brackets are metric].

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