

SC Fiber Optic Connectors

PANDUIT®

SPECIFICATION SHEET

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 2.5mm ceramic ferrules with non-optical disconnect functionality and an average insertion loss of 0.1dB (multimode) and 0.15dB (singlemode) per mated pair.



technical information

| | |
|--------------------------------|---|
| Standards requirements: | TIA/EIA-604 FOCIS-3 compliant; exceeds TIA/EIA-568-B.3 requirements |
| Fiber compatibility: | 62.5/125µm OM1, 50/125µm OM2, 10Gig™ 50/125µm laser optimized OM3/OM4 and 9/125µm OS1/OS2 |
| Fiber cable type: | 900µm tight-buffered cable recommended |
| Fiber cable size: | 3.0mm or 1.6mm – 2.0mm jacketed cable |
| Ferrule type: | Zirconia ceramic ferrule |
| Insertion loss: | 0.1dB average (multimode), 0.15dB (singlemode) |
| Return loss: | >20dB (multimode), >40dB (singlemode) |

key features and benefits

| | |
|--|--|
| Free floating housing | Ensures complete latching even when inserted by the boot; valuable in high-density spacing applications |
| Pre-assembled inner inner housing | Fewer parts simplifies assembly and reduces installer error for lower installed cost |
| Full length adhesive fill tube | Prevents adhesive from entering internal cavity of connector to reduce installer error |
| Non-optical disconnect | Maintains data transmission under tensile loads for jacketed cable for network reliability |
| Anaerobic adhesive field installation | Simplifies and reduces installation time by 50% compared to heat cured epoxy terminations; curing oven/time not required |
| High temperature thermoplastic design | Allows use of high glass transition temperature epoxies with cure temperatures up to 150°C (302°F) |
| Simplex available with 900µm and 3.0mm or 1.6 – 2.0mm boots | One connector part number for both fiber types for easier ordering and stocking |
| Standard 2.5mm ceramic ferrules | Provide the highest durability for repeated matings |

applications

Panduit 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.

SC Simplex Fiber Optic Connectors for 900µm Buffered Fiber and 3.0mm Jacketed Cable

Multimode (black boots): FSCM5BL
Multimode (black boots): FSCMBL
Multimode (red boots): FSCMRD
Singlemode (blue boots): FSCSBU

SC Simplex Fiber Optic Connectors for 900µm Buffered Fiber and 1.6mm – 2.0mm Jacketed Cable

Multimode (black boots): FSCM2.05BL
Multimode (black boots): FSCM2.0BL
Multimode (red boots): FSCM2.0RD
Singlemode (blue boots): FSCS2.0BU

SC Duplex Fiber Optic Connectors for 3.0mm Jacketed Cable

Multimode (black boots) FSCDM5BL
Multimode (black/red): FSCDM

SC Fiber Optic Adapters

Duplex MM: FADSCFI-L
Duplex MM: FADSCBL-L
Duplex 10Gig™ (zirc): FADSCZAQ-L
Simplex SM (zirc): FASSCZBU-L
Simplex APC (zirc): FASSCZAG-L
 L = Bag of 50 adapters; 100 per carton.

Mini-Com® SC Adapter Modules

Duplex MM: CMDEISCEI
Duplex MM: CMDBLSCBL
Duplex 10Gig™ (zirc.): CMSBUSCZBU
Simplex SM (zirc): CMSBUSCZBU
Simplex APC (zirc): CMSAGSCZBL

Opticom® SC Fiber Adapter Panels

6 duplex MM: FAP6WEIDSC
6 duplex MM: FAP6WBLDSC
6 duplex 10Gig™: FAP6WAQDSCZ
6 duplex SM (zirc.): FAP6WBUDSCZ
12 simplex SM (zirc.): FAP12WBUSCZ

Opticom® QuickNet™ Pre-Terminated MTP® Cassettes

12 SC to MTP® (12f): FC^12-3S
6 SC to MTP® (12f): FC^12-3

Opti-Core® Fiber Optic Patch Cords

Duplex SC to SC: F^D3-3M‡
Simplex SC to SC: F^S3-3M‡
Simplex SC to pigtail: F^B3-NM‡

SC Termination Tooling

Termination kit: FJKITG
Refurbishment kit: FJKITG-RFB

Additional Components for Singlemode

1µm diamond film: FPF1-V
0.05µm lapping film: FLCFPLF-X

HD Connector Removal Tool

For LC and SC: PCRT1

Substitute for module color:
 EI = Electric Ivory BU = Blue
 IG = International Gray WH = White
 TG = Technical Gray BL = Black
 AW = Arctic White IW = Off White
 EW = European White

^Substitute for fiber type:
 X (OM3/OM4 – 10Gig™ 50/125µm),
 5 (OM2 – 50/125µm), 6 (OM1 – 62.5/125µm)
 or 9 (OS1/OS2 – 9/125µm).

‡Substitute for length in meters: 1, 2, 3, 5 or 10 for patch cords, and 1, 2 or 3 for pigtails; singlemode patch cords are also available in 12, 15, 25 or 30 meter lengths. Contact Customer Service for other available lengths.

SC Fiber Optic Connectors

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 |

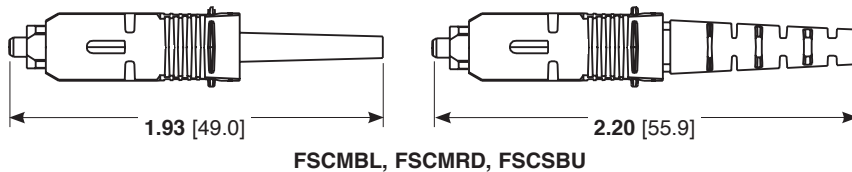
selection information

| Part Number | Connector Type | Cable Type | 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 |
| FSCM2.05BL | Simplex | 900 micron buffered fiber and 1.6 – 2.0mm jacketed cable | | | | | | |
| FSCDM5BL | Duplex | 3.0mm jacketed cable | | | | | | |
| FSCMBL | Simplex | 900µm buffered fiber and 3.0mm jacketed cable | | | | | | |
| FSCMRD | Simplex | 900µm buffered fiber and 3.0mm jacketed cable | | | Electric Ivory | Red | | |
| FSCM2.0BL | Simplex | 900µm buffered fiber and 1.6mm – 2.0mm jacketed cable | | | | | | |
| FSCM2.0RD | Simplex | 900µm buffered fiber and 1.6mm – 2.0mm jacketed cable | | | | | | |
| FSCDM | Duplex | 3.0mm jacketed cable | | | | | | |
| FSCSBU | Simplex | 900µm buffered fiber and 3.0mm jacketed cable | Singlemode | Zirconia Ceramic | Blue | Blue | 0.15dB | >40 |
| FSCS2.0BU | Simplex | 900µm buffered fiber and 1.6mm – 2.0mm jacketed cable | | | | | | |

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

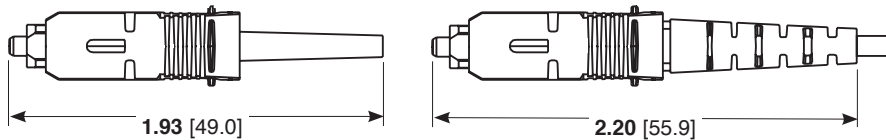
SC Simplex Connectors

For 900µm Fiber and 3.0mm Jacketed Cable



FSCMBL, FSCMRD, FSCSBU

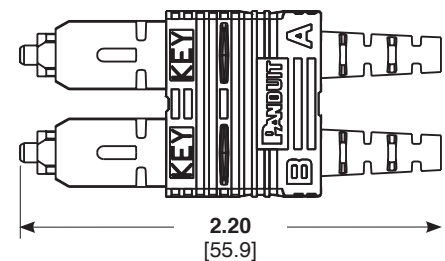
For 900µm Fiber and 1.6mm – 2.0mm Jacketed Cable



FSCM2.0BL, FSCM2.0RD, FSCS2.0BU

SC Duplex Connector

For 3.0mm Jacketed Cable



FSCDM

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

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