

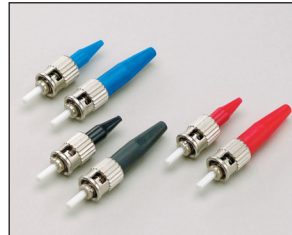
ST Fiber Optic Connector

PANDUIT™

SPECIFICATION SHEET

specifications

ST* Fiber Optic Connectors shall be compatible with TIA FOCIS-2. ST connectors shall be field installable in one module space. The fibers shall terminate in 2.5mm ferrules and have typical insertion loss of 0.15dB (multimode) or 0.20dB (singlemode) per connector.



technical information

Fiber compatibility:	62.5/125µm and 50/125µm (multimode), 9/125µm (singlemode)
Fiber cable types:	3.0mm jacketed or 900µm buffered
Ferrule type:	Zirconia ceramic, pre-radiused
Insertion loss:	0.15dB typical (multimode), 0.20dB typical (singlemode)
Return loss:	Greater than 20dB (multimode), 40dB (singlemode)

key features and benefits

Connectors:	
Robust design	Network reliability; exceeds requirements of TIA/EIA-568-B.3
FOCIS-2 compatible	Ensures intermatability with all FOCIS-2 compatible products
Anaerobic adhesive	Lower installed cost due to faster termination time
Full length adhesive fill tube	Reduces installer error; simplifies installation
3mm & 900µm boot with each connector	Easier ordering and stocking; one connector part number ordered and stocked for both fiber types
Standard 2.5mm ceramic ferrules	Proven technology provides strength and reliability; utilizes installer familiar field termination methods and tools
Adapter modules:	
Adapters available in patch panels and fiber optic adapter panels (FAPs)	Provides a complete ST system solution
MINI-COM® module design	System flexibility; adapter modules can be used in all MINI-COM® closet products and work area outlets
Module available in multiple colors	Allows color-coding for network segregation

applications

PANDUIT ST Fiber Optic Connectors utilize an industry standard design for equipment cross-connects or interconnects. These connectors are field installable with easy to use anaerobic adhesive and polishing procedures. ST Fiber Optic Connectors are widely used in fiber optic backbone and horizontal applications for high speed data transmissions. Multimode connectors provide

a low cost, easy to terminate solution for fiber-to-the-desk and horizontal applications. Singlemode connectors offer ultimate data transmission capabilities for high speed backbone applications. PANDUIT ST adapter modules are completely modular to allow use with other connectors for multimedia solutions. Modules are MINI-COM® compatible for use in all patch panels, faceplates and surface mount boxes.

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Multimode 900µm Tight-Buffered Fiber or 3mm Jacketed Cable

Black boot:	FSTMABL
Red boot:	FSTMARD

Singlemode 900µm Tight-Buffered Fiber or 3mm Jacketed Cable

Blue boot:	FSTSABU
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Adapter Modules

ST adapter module:	CMST**
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Multimode Patch Cords

OPTI-PLUG™ duplex connector to ST:	F^D6P-2M^‡
Simplex 900µm buffered ST pigtails:	F^B2-NM‡
Simplex ST to ST:	F^S2-2M‡
Duplex ST to ST:	F^D2-2M‡
Duplex ST to SC:	F^D2-3M‡
OPTI-JACK duplex jack module to ST:	F^D6J-2M‡
Duplex ST to FC:	F^D2-4M‡

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

Singlemode Patch Cords

OPTI-PLUG duplex connector to ST:	F9D6P-2M‡
Simplex 900µm buffered ST pigtails:	F9B2-NM‡
Simplex ST to ST:	F9S2-2M‡
OPTI-JACK duplex jack module to ST:	F9D6J-2M‡
Duplex ST to ST:	F9D2-2M‡
Duplex ST to SC:	F9D2-3M‡
Duplex ST to FC:	F9D2-4M‡

Termination Tooling

Termination kit:	FJKITG
Singlemode connectors also require:	
1µm diamond polishing film: (5-sheet pack)	FPF1-V
Polishing cloth: (25-sheet pack)	FPCL-Q
Polishing slurry:	FPSL

**Substitute: EI = Electric Ivory, BU = Blue, BL = Black, IW = Off White, AW = Arctic White.

Please contact factory for additional patch cord configurations and custom lengths

‡Available in standard lengths of 1,2,3 and 10 meters

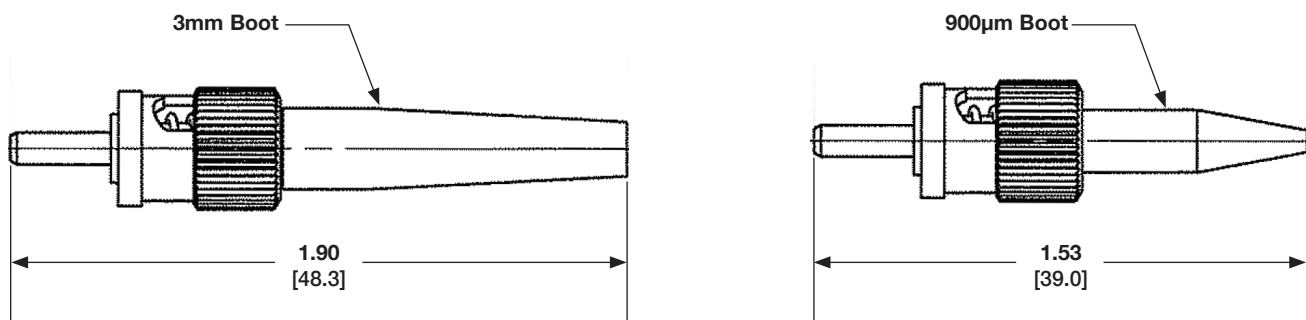
ST Fiber Optic Connectors

performance information

TIA 455:	ISO/IEC 874-1	Description	Test Procedure and TIA/EIA-568-B.3 Required Performance	Performance
1	—	Flex	100 cycles; -180 to 180 degrees; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
2	4.5.11	Impact	8 drops from 1.8m; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
4	4.5.18	High Temperature	4 days at 60°C followed by post-conditioning FOTP-6; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
5	4.4.19	Humidity	4 days at 90-95% RH and 40°C; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM), max. change during test 0.4dB	< 0.1dB additional loss
6	4.5.4	Cable Retention	11.24 lbs. at 0 degrees, 4.4 lbs. at 90 degrees; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM), max. additional loss 0.5dB	< 0.1dB additional loss
21	4.5.32	Durability	500 mate/unmate cycles; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
34	4.4.7	Insertion Loss	max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	0.15dB typical (MM), 0.20dB typical (SM)
36	4.5.5	Twist	10 cycles; 2.5 cw, 5 ccw, 2.5 cw; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
107	—	Return Loss	20dB minimum (MM), 26dB minimum (SM)	>20dB (MM), > 40dB (SM)
185	4.5.6	Coupling Strength	7.4 lbs. at 0 degrees; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	< 0.1dB additional loss
188	4.5.17	Low Temperature	4 days at 0°C; max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM), max. change during test 0.3dB	< 0.1dB additional loss

NOTE: Multimode tests performed at 850 and 1300nm. Singlemode test performed at 1310 and 1550nm.

selection information



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

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