

## 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.



## ST Fiber Optic Connector

### technical information

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

### key features and ... benefits

#### Connectors:

<b>Robust design</b>	Network reliability; exceeds requirements of TIA/EIA-568-B.3
<b>FOCIS-2 compatible</b>	Ensures intermatability with all FOCIS-2 compatible products
<b>Anaerobic adhesive</b>	Lower installed cost due to faster termination time
<b>Full length adhesive fill tube</b>	Reduces installer error; simplifies installation
<b>3mm &amp; 900µm boot with each connector</b>	Easier ordering and stocking; one connector part number ordered and stocked for both fiber types
<b>Standard 2.5mm ceramic ferrules</b>	Proven technology provides strength and reliability; utilizes installer familiar field termination methods and tools

#### Adapter modules:

<b>Adapters available in patch panels and fiber optic adapter panels (FAPs)</b>	Provides a complete ST system solution
<b>MINI-COM® module design</b>	System flexibility; adapter modules can be used in all MINI-COM closet products and work area outlets
<b>Module available in multiple colors</b>	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.

\* ST is a trademark of Lucent Technologies

### installer tip

**Dry fit connector with fiber to verify smooth insertion and to ready connector for adhesive.**

Visit our website at: [www.panduit.com/ncg](http://www.panduit.com/ncg)

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

<b>Black boot:</b>	FSTMABL
<b>Red boot:</b>	FSTMARD

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

<b>Blue boot:</b>	FSTSABU
-------------------	---------

#### Adapter Modules

<b>ST adapter module:</b>	CMST**
---------------------------	--------

#### Multimode Patch Cords

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

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

#### Singlemode Patch Cords

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

#### Termination Tooling

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

\*\*Substitute: EI=Electric Ivory  
WH=White  
BL=Black  
IW=Off White  
IG=International Gray

Please contact factory for additional patch cord configurations and custom lengths

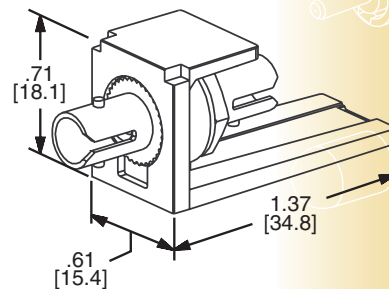
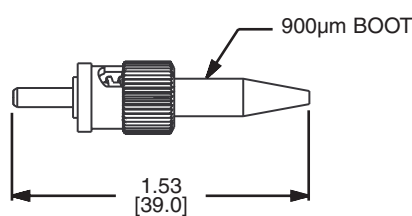
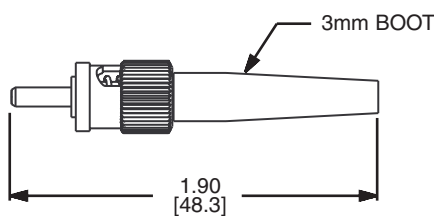
‡Available in standard lengths of 1,2,3 and 10 meters

# ST Fiber Optic Connector

## Standards Compliant Connector Performance

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	<b>Insertion Loss</b>	max. insertion loss 0.75dB, min. return loss 20dB (MM), 26dB (SM)	<b>0.15dB typical (MM), 0.20dB typical (SM)</b>
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	--	<b>Return Loss</b>	20dB minimum (MM), 26dB minimum (SM)	<b>&gt;20dB (MM), &gt; 40dB (SM)</b>
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.



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

Our products are warranted to be free from defects in material and workmanship at the time of sale but our obligation under this warranty is limited to the replacement of any product proved to be defective within 6 months (for product) or 90 days (for tools) from the date of delivery. Tool warranty is void if Panduit tools are modified, altered or misused in any way. Use of Panduit tooling with any product other than the specified Panduit products for which the tool was designed, constitutes misuse. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability whatsoever in connection therewith.

This warranty is made in lieu of and excludes all other warranties, expressed or implied. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE ARE SPECIFICALLY EXCLUDED. Neither seller nor manufacturer shall be liable for any other injury, loss or damage whether direct or consequential, arising out of the use of, or the inability to use, the product.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide for use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. For specific dimensional requirements consult the factory. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.



WORLD HEADQUARTERS  
PANDUIT CORP.  
Tinley Park, Illinois, USA  
Phone: 888-506-5400, ext. 6914  
708-532-1800, ext. 6914  
Fax: 708-460-2897  
Email: netconnsupport@panduit.com  
Internet: www.panduit.com/ngc

**For Pricing and Further Information —  
Contact your local authorized  
PANDUIT PAN-NET™ Distributor or Sales Office**

PANDUIT CANADA  
Div. of PANDUIT CORP.  
Markham, Ontario  
Phone: 905-475-6922

EUROPEAN HEADQUARTERS  
PANDUIT EUROPE LTD.  
London, UK  
Phone: 44(0) 208-601-7200

ASIAN HEADQUARTERS  
PANDUIT SINGAPORE PTE. LTD.  
Republic of Singapore  
Phone: (65) 379 6700

PANDUIT CORP.  
Japan Branch  
Phone (81) (3) 3767-7011

PANDUIT MEXICO/LATIN AMERICA  
& CARIBBEAN  
Phone: (52) 3 666-2501

PANDUIT (AUST.) PTY. LTD.  
Phone: (61) 3-9794 9020