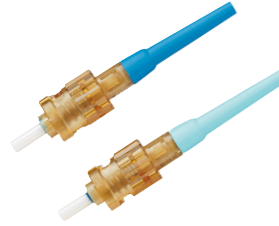


# ST OptiCam® Pre-Polished Fiber Optic Connectors

## SPECIFICATIONS

ST OptiCam pre-polished fiber optic connectors shall be ANSI/TIA-604-FOCIS-2 compliant and contain a factory-terminated fiber, eliminating field polishing and adhesive. ST pre-polished connectors shall have an average insertion loss of 0.3dB per mated pair for multimode and singlemode fiber. ST pre-polished connectors shall captivate fiber and buffer in one action allowing for up to two re-terminations with no degradation in performance.



## TECHNICAL INFORMATION

<b>Standards requirements:</b>	ANSI/TIA-604-FOCIS-2 compliant; exceeds ANSI/TIA-568.3-D requirements
<b>Fiber compatibility:</b>	62.5/125µm OM1, 50/125µm OM2, 10Gig™ 50/125µm OM3/OM4/OM5 and 9/125µm OS1/OS2
<b>Fiber cable type:</b>	900µm tight-buffered fiber or 250µm cable with a 900µm build up
<b>Fiber cable size:</b>	1.6mm - 2.0mm and 3.0mm jacketed cable with optional boots
<b>Ferrule type:</b>	Zirconia ceramic with a pre-polished fiber stub
<b>Insertion loss:</b>	0.3dB average (multimode and singlemode)
<b>Return loss:</b>	>20dB (multimode), >26dB (10Gig™ multimode), >50dB (singlemode)

## KEY FEATURES AND BENEFITS

<b>Factory pre-polished fiber stub endface:</b>	Eliminates inconsistent and time-consuming field polishing to deliver required optical performance; reduces termination time (less than half the time of field polish connectors) and the number of installation tools required
<b>Dual cam design with fiber and buffer clamps:</b>	Secures both the fiber and the buffer during the camming step to fiber and buffer clamps facilitate consistent termination results; reduces the termination time compared to conventional termination methods  <b>PATENTED</b> Allows up to two re-terminations to achieve optimum termination results; reduces the number of rejected connectors and terminations to provide yield rates approaching 100% for lower installed costs
<b>Non-optical disconnect:</b>	Maintains data transmission under tensile loads for jacketed cable
<b>Mechanical cable retention:</b>	Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation
<b>Robust Design:</b>	FOCIS-2 compliant bayonet style design for easy deployment; operating temperature range of 32° to 140°F (0° to 60°C)
<b>OptiCam® 2 Termination Tool</b>	Provides calculated insertion loss value at the time of termination, improving termination yields and reducing installed costs

## APPLICATIONS

ST fiber optic connectors are widely used in fiber optic backbone and horizontal applications for high-speed data transmission. Typical applications for ST OptiCam Connectors include maintenance or emergency restoration of fiber networks and retrofit/initial install in both behind-the-wall (BTW) and in the permanent side of panelized interconnect and cross-connect. ST OptiCam Connectors eliminate the need for end face polishing and adhesive providing easier, faster installation, especially in remote areas and confined spaces. The hand-held OptiCam 2 Termination Tool gives installers the flexibility to terminate in very close proximity to the application without having to switch tools or find benchtop space.

### ST OptiCam Pre-Polished Connectors

<b>50/125µm simplex:</b>	FST2MCXAQ
<b>50/125µm simplex:</b>	FST2MC5BL
<b>62.5/125µm simplex:</b>	FST2MC6EI
<b>9/125µm simplex:</b>	FST2SCBU

### OptiCam 1.6/2.0mm Boot Assemblies

<b>Multimode (aqua):</b>	FMCBT2AQ-X
<b>Multimode (black):</b>	FMCBT2BL-X
<b>Singlemode (blue):</b>	FSCBT2BU-X

### OptiCam 3.0mm Boot Assemblies

<b>Multimode (aqua):</b>	FMCBT3AQ-X
<b>Multimode (black):</b>	FMCBT3BL-X
<b>Singlemode (blue):</b>	FSCBT3BU-X

### OptiCam 2 Termination Tooling

<b>Precision kit:</b>	FOCTT2-PKIT2
<b>General kit:</b>	FOCTT2-BKIT2
<b>Basic kit:</b>	FOCTT2-KIT
<b>ST cradles:</b>	FSTC2

### 900µm Build Up

<b>12-Fiber Fanout:</b>	FO12CB
<b>6-Fiber Fanout:</b>	FO6CB
<b>2" Build-Up Tube:</b>	F250BT-C

-X indicates bulk packages of 10 pieces per pack to reduce single-use plastic

^Substitute for fiber type: 6 = 62.5/125µm OM1, 5 = 50/125µm OM2, X = 50/125µm OM3/OM4/OM5 or 9 = 9/125µm OS2.

# ST OptiCam® Pre-Polished Fiber Optic Connectors

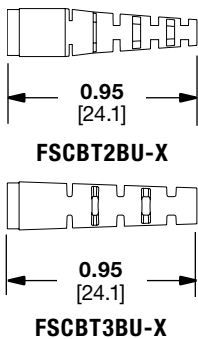
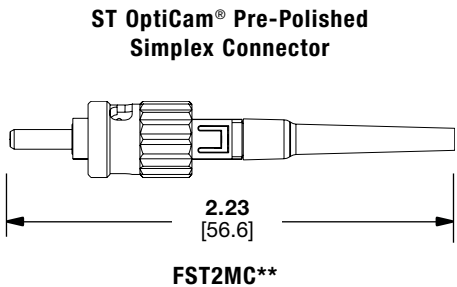
## PERFORMANCE INFORMATION

Test Parameter	Description	Result
Qualification test suite (ANSI/TIA-568.3-D requirements)	Complete testing protocol per ANSI/TIA-568.3-D using ANSI/TIA FOTPs that include mechanical, environmental, and optical test sequences	Exceeds ANSI/TIA-568.3-D requirements
Connector intermatability	Dimensional and material compliance to ANSI/TIA standards	All connectors are FOCIS compliant with ANSI/TIA-604-2-A
Repeated mating	500 mate/unmate cycles Max. insertion loss: 0.75dB Min. return loss: 20dB	Exceeds ANSI/TIA-569.3-D test requirements: <0.1dB additional insertion loss
Cable retention (straight pull): 900µm tight-buffered fiber	ANSI/TIA-568.3-D requirement: 0.5 lb. load applied with <0.5dB increase in insertion loss after test	ANSI/TIA-568.3-D requirements: 1.0 lb. avg. load applied with <0.2dB increase in insertion loss after test
Jacketed cable	11.24 lbs. load applied with <0.5dB increase in insertion loss after test	11.24 lbs. load applied with <0.1dB increase in insertion loss after test***

## SELECTION INFORMATION

Part Number	Connector Type	Fiber	Ferrule Finish	Backbone Color	Boot Color	Average Insertion Loss**	Return Loss
FST2MCXAQ	Simplex	10GbE 50/125µm OM3/OM4/OM5	SPC	Aqua	Aqua	0.03dB	>26dB
FST2MC5BL	Simplex	50/125µm OM2		Black	Black		>20dB
FST2MC6EI	Simplex	62.5/125µm OM1		Beige	Beige		
FST2SCBU	Simplex	9/125µm OS1/OS2	UPC	Blue	Blue		>50dB

### OptiCam® Boot Assemblies For 1.6/2.0mm Jacketed Cable



\*\*\*Substitute for fiber type: For multimode, insert XAQ for 10Gig™ 50/125µm, 5BL for 50/125µm, or 6BL for 62.5/125µm. Singlemode boot assembly part numbers (Blue) are shown. For multimode boot assemblies, replace S (Singlemode) in part number with M (Multimode) and replace BU (Blue) with AQ (Aqua) or BL (Black).

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

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