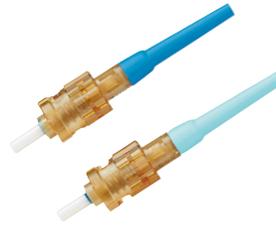


ST OptiCam® Pre-Polished Fiber Optic Connectors

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

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

KEY FEATURES AND BENEFITS

Factory pre-polished fiber stub endface:	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
Dual cam design with fiber and buffer clamps:	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 <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; margin-right: 5px;">PATENTED</div> <p>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</p> </div>
Non-optical disconnect:	Maintains data transmission under tensile loads for jacketed cable
Mechanical cable retention:	Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation
Robust Design:	FOCIS-2 compliant bayonet style design for easy deployment; operating temperature range of 32° to 140°F (0° to 60°C)
OptiCam® 2 Termination Tool	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

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

OptiCam 1.6/2.0mm Boot Assemblies

Multimode (aqua):	FMCBT2AQ-X
Multimode (black):	FMCBT2BL-X
Singlemode (blue):	FSCBT2BU-X

OptiCam 3.0mm Boot Assemblies

Multimode (aqua):	FMCBT3AQ-X
Multimode (black):	FMCBT3BL-X
Singlemode (blue):	FSCBT3BU-X

OptiCam 2 Termination Tooling

Precision kit:	FOCTT2-PKIT2
General kit:	FOCTT2-BKIT2
Basic kit:	FOCTT2-KIT
ST cradles:	FSTC2

900µm Build Up

12-Fiber Fanout:	FO12CB
6-Fiber Fanout:	FO6CB
2" Build-Up Tube:	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.

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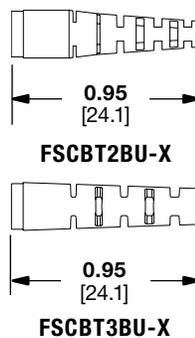
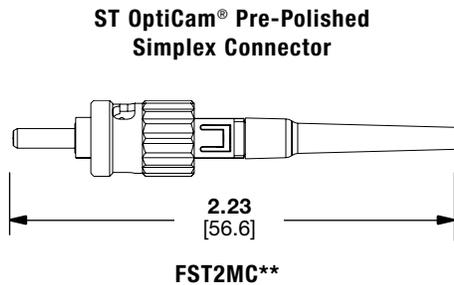
PERFORMANCE INFORMATION

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		>50dB
FST2SCBU	Simplex	9/125µm OS1/OS2	UPC	Blue	Blue		>50dB

OptiCam® Boot Assemblies For 1.6/2.0mm Jacketed Cable



OptiCam® 2 Termination Kit



***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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