

ST Optical Fibre Connectors

V.3.1

Description

The ST connector has a quick release bayonet style body and spring loaded ferrule. ST connectors are commonly used in networking applications.

FibreFab manufactures a range of ST connectors suitable for various applications.

FibreFab ST connectors are available in singlemode PC and multimode PC. The connectors come with standard boots suitable for 900µm, 2mm and 3mm cable diameters.

Features

- ▶ Complies with IEC 61754-2 and TIA 604-2
- ▶ Low insertion loss and back reflection
- ▶ Bayonet shaped housing for easy termination
- ▶ Nickel plated brass body
- ▶ Zirconia ceramic ferrule with high end PC finish
- ▶ RoHS, REACH SvHC compliant

Applications

- ▶ Local area networks
- ▶ Data processing networks
- ▶ Distribution application
- ▶ Premises distribution
- ▶ Test and laboratory equipment



Technical Specification

MECHANICAL PROPERTIES	CRITERIA	EFFECT	CONFORMANCE
Mechanical endurance	500 matings	<0.2 dB change	IEC 61300-2-2
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change	IEC 61300-2-1
Drop	Drop height 1m, 5 drops	<0.2 dB change	IEC 61300-2-12
Cable retention	Magnitude 90 N	<0.2 dB change	IEC 61300-2-4
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable diameter	<0.2 dB change	IEC 61300-2-5
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change	IEC 61300-2-22
Cold	-25 for 96 hrs	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 for 96 hrs	<0.2 dB change	IEC 61300-2-18

ST connector PC and APC- Singlemode

OPTICAL PERFORMANCE	HIGH PERFORMANCE	PREMIUM	STANDARD	CONFORMANCE
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-4
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com

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ST connector PC - Multimode

OPTICAL PERFORMANCE	PREMIUM	STANDARD	CONFORMANCE
Insertion loss (Typ)	0.15	0.3	IEC 61300-3-4
Insertion loss (97%)	0.25	0.4	IEC 61300-3-4
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.1	0.2	IEC 61300-3-4

Ordering Information

		HIGH PERFORMANCE		PREMIUM	STANDARD
Singlemode					
PC	Simplex	900µm	STSM9-H	STSM9-P	STSM9
		2mm	STSM2YEL-H	STSM2YEL-P	STSM2YEL
		3mm	STSM3YEL-H	STSM3YEL-P	STSM3YEL
Multimode					
PC	Simplex	900µm	STMM9-H	STMM9-P	STMM9
		2mm (Black)	STMM2BLK-H	STMM2BLK-P	STMM2BLK
		2mm (Red)	STMM2RED-H	STMM2RED-P	STMM2RED
		3mm (Black)	STMM3BLK-H	STMM3BLK-P	STMM3BLK
		2mm (Red)	STMM3RED-H	STMM3RED-P	STMM3RED