

ST Optical Fibre Connectors

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

The ST connector has a quick release bayonet style body and spring loaded ferrule.

Optronics ST connectors are available in singlemode PC or APC 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 capability
- > 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
MJating Durability	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°C, 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*	GRADE A	GRADE B	GRADE C	CONFORMANCE
IL MAX/ Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/ Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-34
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 61300-3-34
Return loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6

ST Connector PC - Multimode

OPTICAL PERFORMANCE*	GRADE D	GRADE S	CONFORMANCE
IL MAX/ Master (Acceptance)	0.15	0.3	IEC 61300-3-4
IL MAX/ Random	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

* Achievable with Optronics process and specified optical fiber

Ordering Information

		GRADE A	GRADE B	GRADE C	
Singlemode					
PC	Simplex	900µm	STSM9-H/Z	STSM9-P/Z	STSM9/Z
		2mm	STSM2YEL-H/Z	STSM2YEL-P/Z	STSM2YEL/Z
		3mm	STSM3YEL-H/Z	STSM3YEL-P/Z	STSM3YEL/Z
		GRADE D	GRADE S		
Multimode					
PC	Simplex	900µm	-	STMM9-P/Z	STMM9/Z
		2mm (Black)	-	STMM2BLK-P/Z	STMM2BLK/Z
		2mm (Red)	-	STMM2RED-P/Z	STMM2RED/Z
		3mm (Black)	-	STMM3BLK-P/Z	STMM3BLK/Z
		2mm (Red)	-	STMM3RED-P/Z	STMM3RED/Z