

SC Optical Fibre Connectors

V.3.3

Description

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

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

The FibreFab SC connector is available in standard colours including blue, green and beige.

Features

- ▶ Complies with IEC 61754-4, IEC 60784-14 and TIA 604-3
- ▶ A push-pull coupling mechanism for easy insertion and consistent connection
- ▶ Zirconia ceramic ferrule available in several performance grades
- ▶ Low insertion loss and back reflection capability
- ▶ RoHS, REACH SvHC compliant

Application

- ▶ Data centres, premise installations, telecommunication networks
- ▶ Ethernet, fibre channel, ATM, LAN, MAN and WAN



Technical Specification

MECHANICAL PROPERTIES	CRITERIA	EFFECT	CONFORMANCE
Mating 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

SC 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



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SC connector PC - Multimode

OPTICAL PERFORMANCE*	GRADE D	GRADE S	CONFORMANCE
IL MAX/Master (Acceptance)	0.15 dB	0.30 dB	IEC 61300-3-4
IL MAX/Random	0.25 dB	0.40 dB	IEC 61300-3-34
Ave/Master	0.08 dB	0.15 dB	IEC 61300-3-4
Ave/Random	0.10 dB	0.20 dB	IEC 61300-3-34

Ordering Information

			GRADE A	GRADE B	GRADE C
Singlemode					
PC	Simplex	900µm	SCSM9SMPX-H	SCSM9SMPX-P	SCSM9SMPX
		2mm	SCSM2SMPX-H	SCSM2SMPX-P	SCSM2SMPX
		3mm	SCSM3SMPX-H	SCSM3SMPX-P	SCSM3SMPX
	Duplex	2mm	SCSM2DPX-H	SCSM2DPX-P	SCSM2DPX
		3mm	SCSM3DPX-H	SCSM3DPX-P	SCSM3DPX
APC	Simplex	900µm	SCAPC.9MM-H	SCAPC.9MM-P	SCAPC.9MM
		2mm	SCAPC2MM-H	SCAPC2MM-P	SCAPC2MM
		3mm	SCAPC3MM-H	SCAPC3MM-P	SCAPC3MM
	Duplex	2mm	SCAPC2DPX-H	SCAPC2DPX-P	SCAPC2DPX
		3mm	SCAPC3DPX-H	SCAPC3DPX-P	SCAPC3DPX
			GRADE D	GRADE S	
Multimode					
PC	Simplex	900µm	-	SCMM9SMPX-P	SCMM9SMPX
		2mm	-	SCMM2SMPX-P	SCMM2SMPX
		3mm	-	SCMM3SMPX-P	SCMM3SMPX
	Duplex	2mm	-	SCMM2DPX-P	SCMM2DPX
		3mm	-	SCMM3DPX-P	SCMM3DPX

* Achievable with FibreFab process and specified optical fiber



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