

FC Optical Fibre Connectors

V.3.1

Description

The FibreFab FC features a 2.5 mm ferrule and a threaded coupling nut, for a secure connection in high vibration environments and in lab testing for consistent results.

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

The FC connectors are available in singlemode both PC and APC and multimode PC. The connectors come with standard FibreFab boots suitable for 900µm, 2mm and 3mm cable diameters. The FC connectors are available in standard colours like blue, green and beige.

Features

- ▶ Complies with IEC 61754-13 and TIA 604-4-A
- ▶ Low insertion loss and back reflection
- ▶ Precision anti rotation key
- ▶ Nickel plated metal body corrosion resistant
- ▶ Zirconia ceramic ferrule with high end PC finish
- ▶ 2.06mm narrow key
- ▶ RoHS, REACH SvHC compliant

Applications

- ▶ Telecommunications networks
- ▶ 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

FC 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



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FC connector- 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	FCSM9-H	FCSM9-P	FCSM9
		2mm	FCSM2-H	FCSM2-P	FCSM2
		3mm	FCSM3-H	FCSM3-P	FCSM3
APC	Simplex	900µm	FCAPC.9MM-H	FCAPC.9MM-P	FCAPC.9MM
		2mm	FCAPC2MM-H	FCAPC2MM-P	FCAPC2MM
		3mm	FCAPC3MM-H	FCAPC3MM-P	FCAPC3MM
Multimode					
PC	Simplex	900µm	FCMM9-H	FCMM9-P	FCMM9
		2mm	FCMM2-H	FCMM2-P	FCMM2