

FC Connectors



The FC connector features a 2.5 mm ferrule and a threaded metal coupling nut, for a secure connection in high vibration environments and in laboratory testing for consistent results. A range of FC connectors are manufactured including Standard and Premium Low Loss Grades which are suitable for various applications. The FC Connectors are available for single mode UPC with blue boots, APC with green boots and multimode PC with black boots suitable for 900µm, 2mm or 3mm cable diameters.

FEATURES/BENEFITS

- Complies with IEC 61754-13 and TIA 604-4-B, FOCIS-4 for intermatability
- Low insertion loss and back reflection capability
- Precision anti rotation key for mechanical stability
- Nickel plated metal body corrosion resistant
- Zirconia ceramic ferrule available in several performance grades
- RoHS materials, REACH SvHC compliant
- Individual parts packed in bulk package

APPLICATIONS

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

SPECIFICATIONS

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 90N	<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°C 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

FC Connector PC and APC - Single mode

OPTICAL PERFORMANCE*	LOW LOSS PREMIUM	STANDARD	CONFORMANCE
IL MAX/Master (Acceptance)	0.15dB	0.25dB	IEC 61300-3-4
IL MAX/Random (97%)	0.30dB	0.40dB	IEC 61300-3-34
Ave/Master	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.12dB	0.18dB	IEC 61300-3-34
Return Loss	55/65dB	55/65dB	IEC 61300-3-6

FC Connector - Multimode

OPTICAL PERFORMANCE*	LOW LOSS PREMIUM	STANDARD	CONFORMANCE
IL MAX/Master (Acceptance)	0.15	0.30	IEC 61300-3-4
IL MAX/Random (97%)	0.25	0.40	IEC 61300-3-34
Ave/Master	0.08	0.15	IEC 61300-3-4
Ave/Random	0.10	0.20	IEC 61300-3-34

* Achievable with AFL Hyperscale process and specified optical fiber

ORDERING INFORMATION

Single mode		LOW LOSS PREMIUM		STANDARD
PC	Simplex	900μm	FCSM9-P	FCSM9
		2mm	FCSM2-P	FCSM2
		3mm	FCSM3-P	FCSM3
APC	Simplex	900μm	FCAPC.9MM-P	FCAPC.9MM
		2mm	FCAPC2MM-P	FCAPC2MM
		3mm	FCAPC3MM-P	FCAPC3MM
Multimode		LOW LOSS PREMIUM		STANDARD
PC	Simplex	900μm	FCMM9-P	FCMM9
		2mm	FCMM2-P	FCMM2
		3mm	FCMM3-P	FCMM3



SCAN QR FOR PRODUCT PAGE

FURTHER INFORMATION

- For additional information please contact your sales representative
- To view the product 360 visit the product page (Scan the QR code or visit the link below)
- Downloaded from <https://www.aflhyperscale.com/product/fc-connectors>
- AFL Hyperscale reserves the right to make changes in this datasheet at any time without notice
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