

## Datasheet

ENGLISH

# RS PRO FC Single Mode Simplex Fibre Optic Connector

Stock No: 536-8086



## Description

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 and Benefits

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

## Applications

- Telecommunication networks
- Data processing networks
- Premises distribution
- Local area networks
- Distribution application
- 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

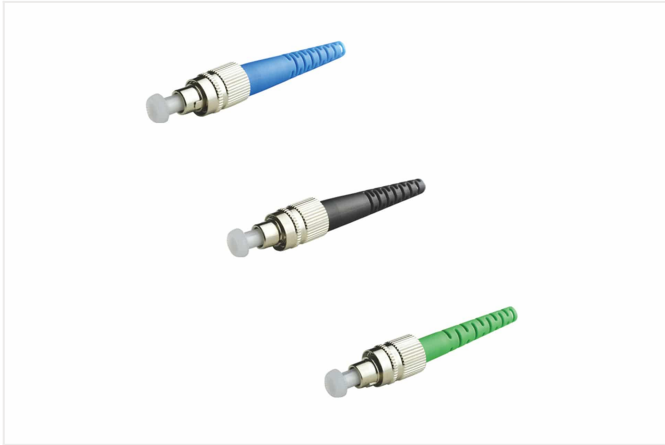


APC	Simplex	900µm	FCAPC.9MM-P	FCAPC.9MM
		2mm	FCAPC2MM-P	FCAPC2MM
		3mm	FCAPC3MM-P	FCAPC3MM
<b>Multimode</b>			<b>LOW LOSS PREMIUM</b>	STANDARD
PC	Simplex	900µm	FCMM9-P	FCMM9
		2mm	FCMM2-P	FCMM2
		3mm	FCMM3-P	FCMM3

## Additional Images



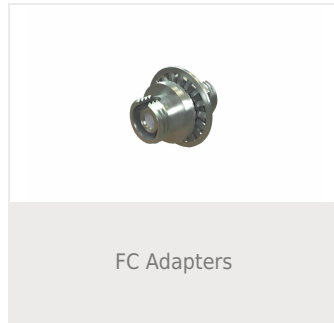




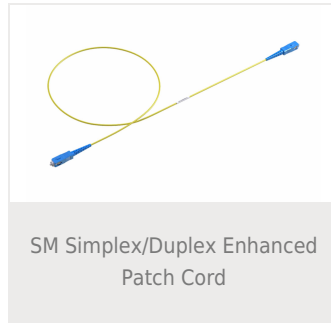
## Related Products



S02 1RU Grey Sliding Patch Panel - 24 Position ST/FC up to 24 fibers



FC Adapters



SM Simplex/Duplex Enhanced Patch Cord



Premium Pigtails



One-Click® Cleaner SC/ST/FC