



## FC Connectors

High quality FC connectors, manufactured including Low Loss and High Performance Grades which are suitable for modern high demand and enhanced performance and applications. They feature a 2.5 mm ferrule and a threaded metal coupling nut, for a secure connection in laboratory testing for consistent results and in high vibration environments. OptronicsPlus 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

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

---

## Applications

- Telecommunication networks
- Local area 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 to 96 hours	<0.2 dB change	IEC 61300-2-17
Dry Heat	+70 to 96 hours	<0.2 dB change	IEC 61300-2-18

## FC Connector PC and APC- Singlemode

OPTICAL PERFORMANCE	HIGH PERFORMANCE	LOW LOSS	PREMIUM STANDARD	CONFORMANCE
IL MAX/Master (Acceptance)	0.10dB	0.15dB	0.25dB	IEC 61300-3-4
IL MAX/Random (97%)	0.20dB	0.30dB	0.40dB	IEC 61300-3-34
Ave/Master	0.08dB	0.12dB	0.18dB	IEC 61300-3-4
Ave/Random	0.08dB	0.12dB	0.18dB	IEC 61300-3-34
Return Loss	55/70dB	55/65dB	55/65dB	IEC 61300-3-6

## FC Connector - Multimode

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

## Ordering Information

	Connector		Mode		Boot Diameter		Configuration		Performance	
OCO	05	FC	9	Singlemode	2	2.0mm	1	Simplex	Leave Empty	Standard
	06	FCA	2	Multimode	3	3.0mm			L	Low loss premium
					9	900µm			P	High Performance

### Example order code

OCO - 05 - 2 - 2 - 1

Standard FC Connector Multimode Simplex 2mm Boot

OCO - 06 - 9 - 3 - 1 - L

Low Loss Premium FC Connector Singlemode Simplex APC 3mm Boot

OCO - 06 - 9 - 9 - 1 - P

High Performance FC Connector Singlemode Simplex 900µm Boot