



## SC Connector

High-quality SC connectors, manufactured including Low Loss and High Performance Grades which are suitable for modern high demand and enhanced performance and applications. They feature a 2.5mm Zirconia Ceramic ferrule and a push/pull coupling mechanism for a fast and reliable connection.

OptronicsPlus simplex and duplex SC connectors are available for single mode UPC with blue boots, for APC with green boots and for multimode PC with red or black boots suitable for 900µm, 2mm or 3mm cable diameters.

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## Features

- Low insertion loss and back reflection
- IEC 61754-4 and TIA 604-3-B and FOCIS-3 compliant
- Push-pull coupling mechanism for easy insertion and consistent connection
- Connector housing and duplex clip available in different colors
- Zirconia ceramic ferrule available in several performance grades
- RoHS, REACH and SvHC compliant

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## Applications

- Telecommunications networks
- Data centres
- FTTx
- Cable television
- LAN, MAN and WAN application
- Premises distribution

## 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

## SC 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

## SC 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	
	02	SC	9	Singlemode	2	2.0mm	1	Simplex	Leave Empty	Standard
OCO	03	SCA	2	Multimode	3	3.0mm	2	Duplex	L	Low loss premium
					9	900µm (only for Simplex)			P	High Performance (Singlemode)

### Example order code

OCO - 02 - 9 - 9 - 1

Standard SC Connector Singlemode Simplex 900µm Boot

OCO - 03 - 9 - 2 - 2 - L

Low Loss Premium SC Connector Singlemode Duplex APC 2mm Boot

OCO - 02 - 2 - 3 - 2

Standard SC Connector Multimode Duplex 3mm Boot

OCO - 02 - 9 - 2 - 1 - P

High Performance SC Connector Singlemode Simplex 2mm Boot