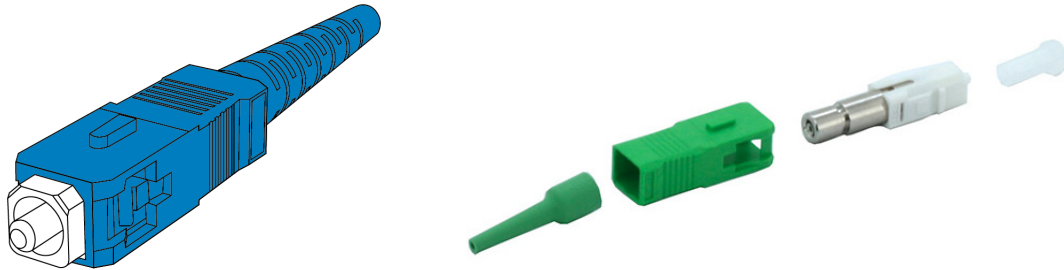


## Optic Fibre Connectors SC 62,5 & 50/125 µm

Cat. No : 0 331 47



### 1. USE

SC type connectors to be glued for 50/125 µm and 62.5 / 125 µm multimode optical fibers suitable from 900 µm cables. Implementation of connectors: hot or cold bonding.

### 2. ITEM DESCRIPTION

The SC connector features a 2.5mm Zirconia Ceramic ferrule and a push/pull coupling mechanism for a fast and reliable connection. A range of pigtail, simplex and duplex SC connectors are manufactured including Standard, Premium Low Loss and High Performance Grades which are suitable for various applications. The 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. The SC/APC connector is available with a pre-angled ferrule designed for 8 degree angle polishing. The SC connector housing and duplex clip are available in standard colours including blue (single mode), green (single mode APC) and beige (multimode).

Features/Benefits	Applications
<ul style="list-style-type: none"> <li>Complies with IEC 61754-4 and TIA 604-3-B, FOCIS-3</li> <li>Low insertion loss and back reflection capability</li> <li>A push-pull coupling mechanism for easy insertion and consistent connection</li> <li>Connector housing and duplex clip available</li> <li>in different colours for easy identification</li> <li>Zirconia ceramic ferrule available in several performance grades</li> <li>RoHS materials, REACH SvHC compliant</li> <li>Individual parts packed in bulk package</li> </ul>	<ul style="list-style-type: none"> <li>Telecommunications networks</li> <li>CATV - Cable television</li> <li>Fibre-To-The-Home (FTTH)</li> <li>LAN, MAN and WAN application</li> <li>Data processing networks</li> <li>Premises distribution</li> </ul>

### 3. TECHNICAL SPECIFICATION

Mechanical properties	Criteria	EFFECT	Standard
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°C for 96 hours	<0,2 dB change	IEC 61300-2-17
Dry heat	+70°C for 96 hours	<0,2 dB change	IEC 61300-2-18

**4. OPTICAL PERFORMANCE**

	OPTICAL PERFORMANCE	HIGH PERFORMANCE	LOW LOSS PREMIUM	STANDARD	CONFORMANCE
LC Connector PC and APC Single mode	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
	LC Connector Multimode	IL MAX/Master (Acceptance)	-	0.15dB	0.30dB
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

**5. ORDERING INFORMATION**

				HIGH PERFORMANCE	LOW LOSS PREMIUM	STANDARD
Single mode	PC	Simplex	900µm	SCSM9SMPX-H	SCSM9SMPX-P	SCSM9SMPX
			2mm	SCSM2SMPX-H	SCSM2SMPX-P	SCSM2SMPX
			3mm	SCSM3SMPX-H	SCSM3SMPX-P	SCSM3SMPX
		Duplex	2mm	SCSM2DPX-H	SCSM2DPX-P	SCSM2DPX
			3mm	SCSM3DPX-H	SCSM3DPX-P	SCSM3DPX
			APC	Simplex	900µm	SCAPC.9MM-H
	2mm	SCAPC2MM-H			SCAPC2MM-P	SCAPC2MM
	3mm	SCAPC3MM-H			SCAPC3MM-P	SCAPC3MM
	Duplex	2mm		SCAPC2DPX-H	SCAPC2DPX-P	SCAPC2DPX
		3mm	SCAPC3DPX-H	SCAPC3DPX-P	SCAPC3DPX	
Multimode	PC	Simplex	900µm	-	SCMM9SMPX-P	SCMM9SMPX
			2mm	-	SCMM2SMPX-P	SCMM2SMPX
			3mm	-	SCMM3SMPX-P	SCMM3SMPX
		Duplex	2mm	-	SCMM2DPX-P	SCMM2DPX
			3mm	-	SCMM3DPX-P	SCMM3DPX