

# SC Optical Fibre Connectors

## Description

Gem Cable manufactures a range of SC connectors suitable for various applications.

SC connectors are used in most of the newer network applications and with less parts and a plastic body it offers an economical option. The SC connectors are available in singlemode for both PC and APC and in multimode PC. The connectors come with standard FibreFab boots suitable for 900µm, 2mm and 3mm cable diameters.

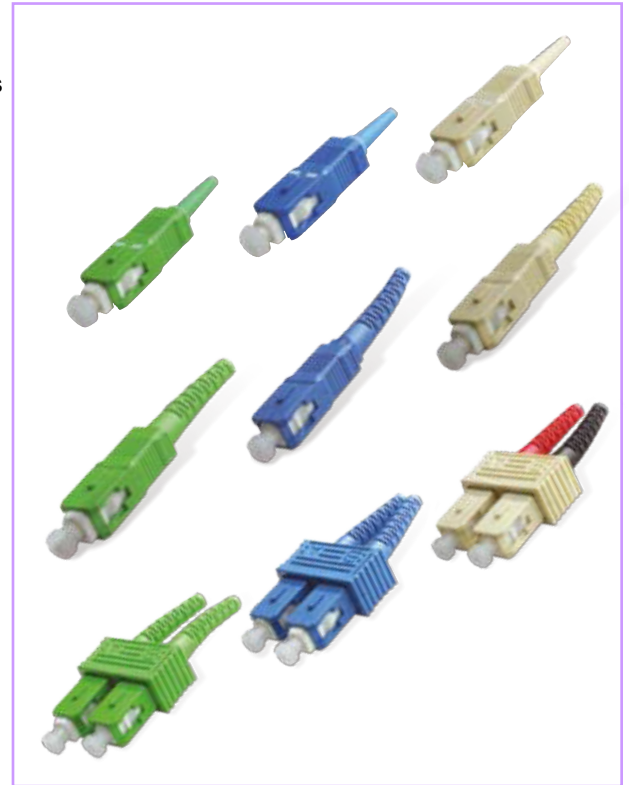
Gem Cable's SC connector is available in standard colours including blue, green and beige.

## Features

- ▶ Complies with IEC 61754-4, IEC 60784-14 and TIA 604-3
- ▶ A push-pull coupling mechanism for easy insertion and consistent connection
- ▶ Zirconia ceramic ferrule with high end Ultra Physical Contact (UPC) finish
- ▶ Low insertion loss and back reflection
- ▶ RoHS, REACH SvHC compliant
- ▶ Available in standard colours and standard packaging

## Application

- ▶ Data centres, premise installations, telecommunication networks
- ▶ Ethernet, fibre channel, ATM, LAN, MAN and WAN



## Technical Specification

MECHANICAL PROPERTIES	CRITERIA	EFFECT	CONFORMANCE
Mechanical endurance	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 90 N	<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 to +70, 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

## SC connector PC and APC- Singlemode

OPTICAL PERFORMANCE	GRADE A	GRADE B	GRADE C	CONFORMANCE
IL MAX/Master (Acceptance)	0.10 dB	0.15 dB	0.25 dB	IEC 61300-3-4
IL MAX/Random	0.20 dB	0.30 dB	0.40 dB	IEC 61300-3-4
Ave/Master	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-4
Ave/Random	0.08 dB	0.12 dB	0.18 dB	IEC 61300-3-34
Return Loss	55/70 dB	55/65 dB	55/65 dB	IEC 61300-3-6