

# Fibre Optic Cabling

## SC Connectors & Adaptors

The SC connector is one of the most popular connectors used today. It can be seen in every area of the communications environment, from a telecoms distribution room to a Local Area Network closet. The SC connector has set the standard for optical fibre connectors. SC connectors are manufactured using the best quality components and they exceed all areas of the standards covering optical fibre connectors.

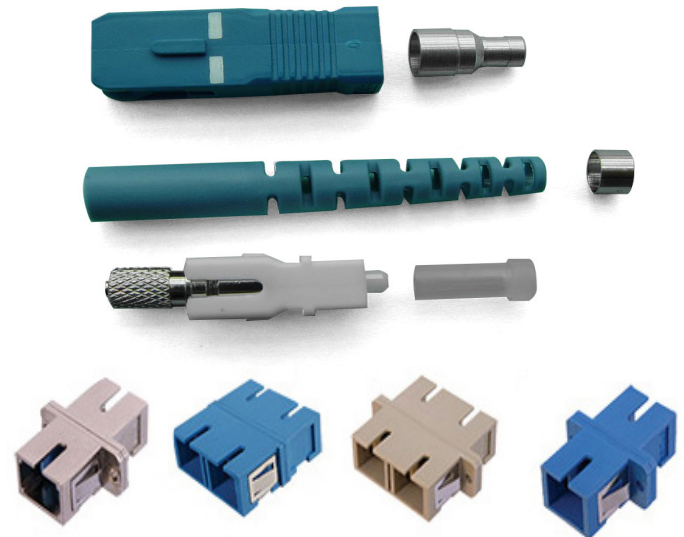
The one-piece design features pre-radiused ceramic ferrules, and are suitable for use with two part heat curing epoxies and cold cure anaerobic adhesives. Available with both 900  $\mu\text{m}$  boots for pigtail termination or 3.0 mm crimp ring & boot for patch cord production. Simplex and duplex versions available (duplex version uses two simplex connectors with a clip to be coupled as required). Generally there are two types of alignment sleeve within an adaptor; phosphor bronze for multimode or zirconia (ceramic) for singlemode.

### Features & Benefits

- Low insertion loss and back reflection loss
- High precision alignment
- Telcordia, ANSI, TIA/EIA, NTT and JIS compliance
- Choice of housing material and sleeve material
- With or without flange
- Compact Design

Ordering Information	
Product Description	Part Number
SC SX Plug SM 900 $\mu\text{m}$ Blue Body - Blue Boot	FFSC3
SC/APC SX Plug SM 900 $\mu\text{m}$ Green Body - Green Boot	FFSC6
SC SX Plug SM 2 mm Blue Body - Red Boot	FFSC6RE
SC SX Plug SM 2 mm Blue Body - Blue Boot	FFSC6BL
SC SX Plug SM 3 mm Blue Body - Blue Boot	FFSC2BL
SC/APC SX Plug SM 3 mm Green Body - Green Boot	FFSC10
SC SX Plug MM 900 $\mu\text{m}$ Pigtail Beige Body - Beige Boot	FFSC3B
SC SX Plug MM 2 mm Beige Body - Beige Boot	FFSC1
SC DX Plug MM 2 mm Beige Body - Beige Boot	FFSC2
SC SX Plug MM 3 mm Beige Body - Beige Boot	FFSC1BE
SC SX SM Adaptor Blue - Ceramic Sleeve	FFSC15
SC DX SM Adaptor Blue - Ceramic Sleeve	FFSC19
SC SX MM Adaptor Beige - Ceramic Sleeve	FFSC16
SC DX MM Adaptor Aqua - Ceramic Sleeve	FFSC18
SC DX MM Adaptor Beige - Ceramic Sleeve	FFSC20

Product Specifications	
Temperature Cycling	-40 to +75°C, 40 cycles =0.2 dB change (IEC 61300-2-48)
Operating Temperature	-40°C to +85°C
SC Adaptor	
Insertion Loss	<0.20 dB
Durability	<0.20 dB typical change 1000 matings
Operating	Temperature -40 to + 85°C



Product Specifications	
Versions Available	2 mm & 3 mm patch, 900 $\mu\text{m}$
Colours	2 mm & 3 mm boot: blue, red, black, green 900 $\mu\text{m}$ boot: blue
Termination Procedure	Epoxy-crimp-polish
Standard Packaging	100 pcs bulk packed
Singlemode	Insertion loss: max. 0.3 dB, typical 0.2 dB, Return loss: UPC > 50 dB, typical 55 dB, APC > 60 dB, typical 65 dB
Multimode	Insertion loss: max. 0.3 dB, typical 0.12 dB, (IEC 874-1 method)
Capillary Diameter Tolerance	SM: 126 $\pm$ 0.5 $\mu\text{m}$ , MM: 127 $\pm$ 0.5 $\mu\text{m}$
Ferrule Diameter	2.5 mm $\pm$ .001, Pre-radiused, PC-end finish for PC ferrule to ferrule. R 10 to 25 mm
Vibration (Mated Pair)	10-55 Hz, 1.5 mm P to P, =0.3 dB change (IEC 61300-2-1)
Mating Durability	000 mating cycles - clean every 25, < 0.2 dB change (IEC 61300-2-2)
High Temperature	75°C for 96 hours =0.2 dB change (IEC 61300-2-18)
Damp Heat	60°C at 95% RH, 96 hours =0.2 dB change (IEC 61300-2-19)