

Datasheet

SC PC Multimode Duplex Fibre Optic Connector

RS Stock number 156-263



Description:

The SC connector is one of the most popular connector 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 has set the standard for optical fibre connectors.

Versions Available

2mm Patch

3mm Patch

900mm

Colours

2 & 3mm Boot: Blue, Red, Black, Green

900mm Boot: Blue

Termination Procedures

Prep cable end

Epoxy-Crimp-Polish



Specifications:

Intermateability

Optically and mechanically compatible with all equivalent connectors. Compliant with IEC 61754-4.

Optical Performance

Singlemode:

Insertion loss: Max. 0.3dB	Typical 0.2dB
Return loss: UPC > 50dB	Typical 55dB
APC > 60dB	Typical 65dB

Multimode:

Insertion loss: Max. 0.3dB	Typical 0.12dB
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Mechanical

Capillary diameter tolerance:

SM – $126 \pm 0.5\mu\text{m}$

MM – $127 \pm 0.5\mu\text{m}$

Ferrule diameter: $2.5\text{mm} \pm .001$

Pre-radiused, PC-end finish for physical contact ferrule to ferrule. R 10 to 25mm

Tensile Strength Cable Retention: >50N

(2 & 3mm boot versions only)

Vibration (Mated Pair): (IEC 61300-2-1) 10-55Hz, 1.5mm P and P = 0.3dB Change

Mating Durability: (IEC 61300-2-2) 1000 mating cycles, clean every 25, < 0.2dB Change

High Temperature: (IEC 61300-2-18), 75°C for 96 hours, =0.2dB Change

Damp Heat: (IEC 61300-2-19), 60°C at 95% RH, 96hours, =0.2dB Change

Temperature Cycling

(IEC 61300-2-48), -40 to +85°C, 42 cycles, =0.2dB Change

Operating Temperature

-40°C to +85°C