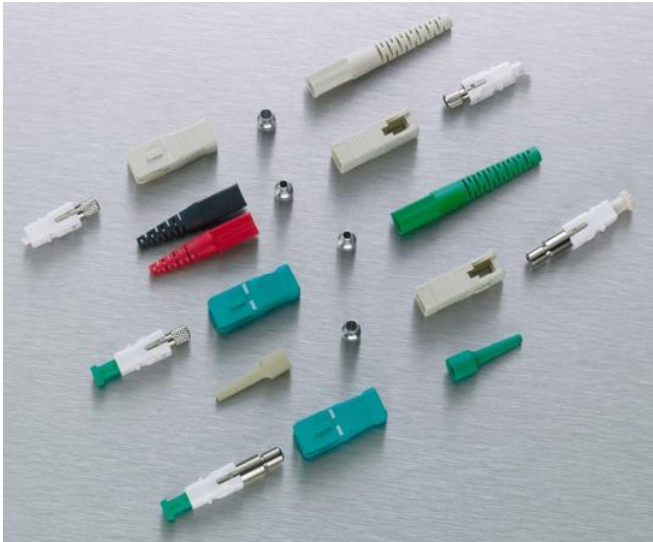


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## Datasheet

# Multimode Duplex Fibre Optic Connector

RS Stock number 536-8058



## Description

The Optical fibre connector is comprised of a polymer body and ceramic ferrule / spring / crimp barrel assembly plus a crimp over sleeve and rubber boot. These connectors are suitable for , 900um and 2 and 3mm cables. The connector is precision made and manufactured to demanding specifications. The combination of ceramic ferrule and a precision polymer housing provides consistent long-term mechanical and optical performance.

This system is created to couple two SC connectors to and from a duplex version. This quickly converts two single connectors, allowing the user to chose between cross over or straight through patchcord configuration.

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# Datasheet

## Specification

### 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.

The Optronics SC connectors are manufactured using the best quality components. The connectors exceeds all areas of the standards covering optical fibre connectors.

### Versions Available:

2mm Patch  
3mm Patch  
900µm

### Colours

2 & 3 mm Boot, Blue, Red, Black, Green  
900 µm Boot, Blue

### Termination Procedures

Prep cable end, Epoxy-Crimp-Polish

### Product Packaging

Standard packaging: 100pcs Bulk packed  
Special packaging available by request

Simplex & Duplex versions available  
(duplex version uses two simplex connectors with a clip to be coupled as required)

### Intermateability

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

### Optical Performance

**Singlemode**  
Insertion loss: Max. 0.3 dB Typical 0.2 dB

Return Loss: UPC > 50dB Typical 55 dB  
APC > 60dB Typical 65 dB

### Multimode

Insertion loss: Max. 0.3 dB Typical 0.12 dB

### Mechanical

Capillary diameter tolerance:  
SM—126 ± 0.5µm  
MM—127 ±/ - 0.5µm  
Ferrule Diameter: 2.5mm ± .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)  
10-55 Hz, 1.5mm P to P  
=0.3dB Change

### Mating Durability:

(IEC 61300-2-2)  
1000 mating cycles  
Clean every 25  
< 0.2 dB 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, 96 hours  
=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