

# Connector Specifications

## SC Connector

### Singlemode

Insertion loss: Max. 0.3dB Typical 0.2dB

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

### Multimode

Insertion loss: Max. 0.5dB Typical 0.3dB

### Intermateability

Optically and mechanically compatible with all equivalent connectors.

(Compliant with IEC 61754-4)

### Mechanical

Capillary diameter tolerance:

SM - 125 -0/ + 1 $\mu$ m

MM - 126 -0/ +2 $\mu$ m

Ferrule diameter: 2.5  $\pm$  0.001mm

Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule. R 10 to 25mm (0.98 Inches)

Tensile Strength Cable retention: >50N (2 & 3mm boot versions only)

### Temperature Cycling:

(61300-2-18)

-40 (-40°F) to +75°C (+167°F),

40 cycles = 0.2dB Change

### High Temperature:

(61300-2-18)

70°C (158°F) for 96 hours

< 0.2dB Change

### Damp Heat:

(61300-2-19)

40°C (104°) at 93% RH, 96 hours

< 0.2dB Change

### Vibration (Mated Pair):

(61300-2-1)

10 - 55 Hz, 1.5mm P to P

< 0.2dB Change

### Mating Durability:

(61300-2-2)

500 mating cycles

Clean every 25

< 0.2dB Change

### Operating Temperature:

-40°C (-40°F) to +85°C (+185°F)