



**SC**

**SINGLEMODE OPTICAL PLUG  
SUB-ASSEMBLY**

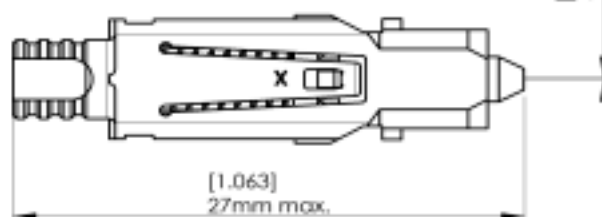
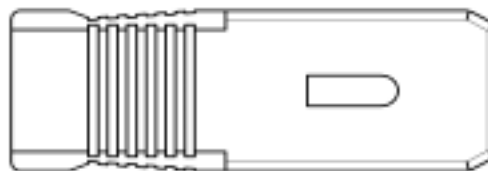
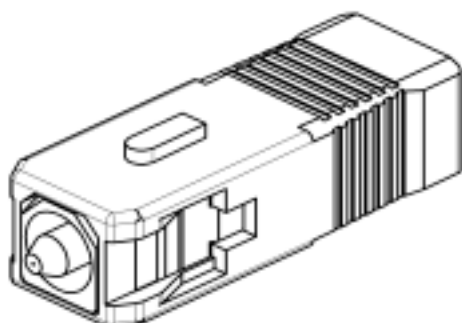
Packaging :  
**1**

**F 7 2 8 0 1 1 0 0 0**

Packaging :  
**100**

**F 7 2 8 1 1 1 0 0 0**

Original dimensions in mm [inch]



**GENERAL**

**Type** : IEC 61754-4 type SC  
Singlemode zirconia APC ceramic ferrule (pencil type)  
Push-pull latching system  
Floating ferrule  
360° tunable (adjustable to 6 positions for optimization of random insertion loss)

**Ferrule size** : 125µm  
**Fiber size** : 9,5/125µm singlemode

**Cable** : DIA (0,9mm - 0,6/1 - 0,8/1,6) buffered fiber - DIA (2 to 3) tight or semi-loose structure

**Cabling proc.** : Refer to 503 08 400 (D 6121 oe) assembly instruction manual

**CHARACTERISTICS** (Dependant on fiber or cable construction)

| <b>Optical</b> |                    | <b>STD</b>  | <b>TUNED (IEC 61300-2-40)</b> |                                                            |
|----------------|--------------------|-------------|-------------------------------|------------------------------------------------------------|
|                |                    |             |                               | (Attenuation plug mated with reference plug IEC 61300-3-4) |
|                | mean               | < 0,20 dB   | <0,20 dB                      |                                                            |
|                | standard deviation | 0,15 dB     | 0,15 dB                       |                                                            |
|                | max.               | < 0,8dB,97% | < 0,6dB,99%                   | (Attenuation of random mated connectors IEC 61300-3-34)    |
|                | mean               | 0,25 dB     | 0,15dB                        |                                                            |
|                | Repeatability      | 0,10 dB     | 0,10 dB                       | (Maximum loss variation, IEC 61300-2-2)                    |
|                | Return loss        | >60 dB      | >60dB                         | (Mated and unmated, IEC 61300-3-6)                         |

**Mechanical** : Mechanical endurance 200 matings  
Cable retention N/A  
**Environmental** : Temperature range (storage/operating) -40°C to +85°C / -40°C to +70°C

(Performance and specification: see document GEN - F728 001)

| <b>CREATION</b>   |         |                           |        |      |  |
|-------------------|---------|---------------------------|--------|------|--|
| N° :              |         |                           |        |      |  |
| PEN/EP : CAT.     |         |                           |        |      |  |
| Name : PB         |         |                           |        |      |  |
| Date : 11 Aug. 99 | 3/31/00 | The shroud is represented | LAHERA |      |  |
| App. : LV         | Issue   | Revisions                 | Name   | App. |  |

**RADIALL**

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**GENERAL ENVIRONMENTAL CHARACTERISTICS FOR  
SC FIBER OPTIC CONNECTOR**

14.Apr.99

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**Materials**

connector : Inflammability V0 (UL94)  
Material in accordance with BELLCORE  
GR 326 CORE Issue 2, par. 3.3.1

crimp body : brass, nickel plated  
inner crimp sleeve : brass, nickel plated

**PERFORMANCE AND SPECIFICATION**

**Thermal age test** EIA/TIA-455-4A, 85°C 168 hr.

**Thermal cycle test** EIA/TIA-455-3A, -40°C to +75°C, 21 cycles 168 hr.

**Humidity age** EIA/TIA-455-5A, 75°C 95% RH, 168 hr.

**Humidity/Condensation cycling test** EIA/TIA-455-3A, 95%, -10 + 65°C, 14 cycles, 168 hr.

**Post Condensation cycle test** EIA/TIA-455-3A, -40°C to +75°C, 21 cycles 168 hr.

**Vibration test** Bellcore 326, 10 to 50 Hz, 2 hrs./axis

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**Flex test** Type I \* Bellcore 326, 0.9 Kg load, 100 cycles

**Twist test** Type I \* Bellcore 326, 1.35 Kg load  
Type II \*\* Bellcore 326, 0.75 Kg load

**Proof test** Type I \* Bellcore 326, Straight pull : 10 Kg load at 0°  
Side pull : 2 Kg load at 90°  
Type II \*\* Bellcore 326, Straight pull : 1 Kg load at 0°

**Transmission with applied tensile load** Type I \* Bellcore 326, 2,0 Kg load  
Type II \*\* Bellcore 326, 0,7 Kg load

**Impact test** Bellcore 326, 1.5 m drop, 10 cycles

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**Durability** Bellcore 326, 200 cycles

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**Dust** Bellcore 326 - Issue 2

**Adhesive test** Bellcore 326, 65°C, 7 days

**Airborne contaminants** Type I \* Bellcore 326, ASTM B827-92

**Salt spray** EIA/TIA-455-16A, 35°C, 168 hr.

**Immersion / corrosion** Bellcore 326, 85°C, 14 days

**Ground water immersion** Bellcore 326, 22°C, 7 days

(\*) : Type I cable media, reinforced, DIA ~ 3mm

(\*\*) : Type II cable media, 900µm coating

(GR-409-CORE)

**CREATION**

Name : GONIN P.  
Date : 14.Apr.99  
App. : THIBAUD P.

Issue

Revisions

Name

App.

**RADIALL**

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