



SC

**SINGLEMODE OPTICAL PLUG
SUB-ASSEMBLY**

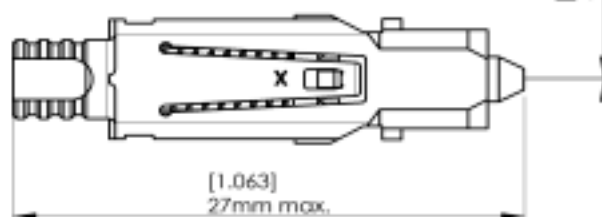
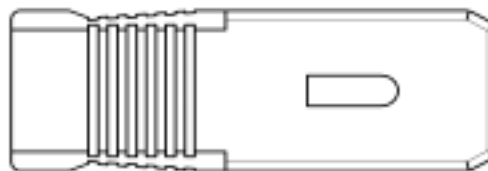
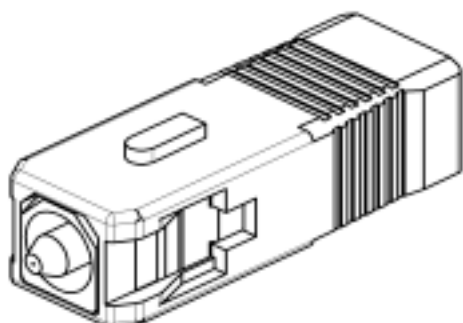
Packaging :
1

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 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)

Optical		STD	TUNED (IEC 61300-2-40)	
				(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)

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

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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

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

Durability Bellcore 326, 200 cycles

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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