



RADIALL
Optical Fiber Components

TECHNICAL DATA SHEET

F727.100.500

LC SIMPLEX PC SINGLEMODE OPTICAL PLUG
FOR Ø2.0 MM CABLE

Packaging
100

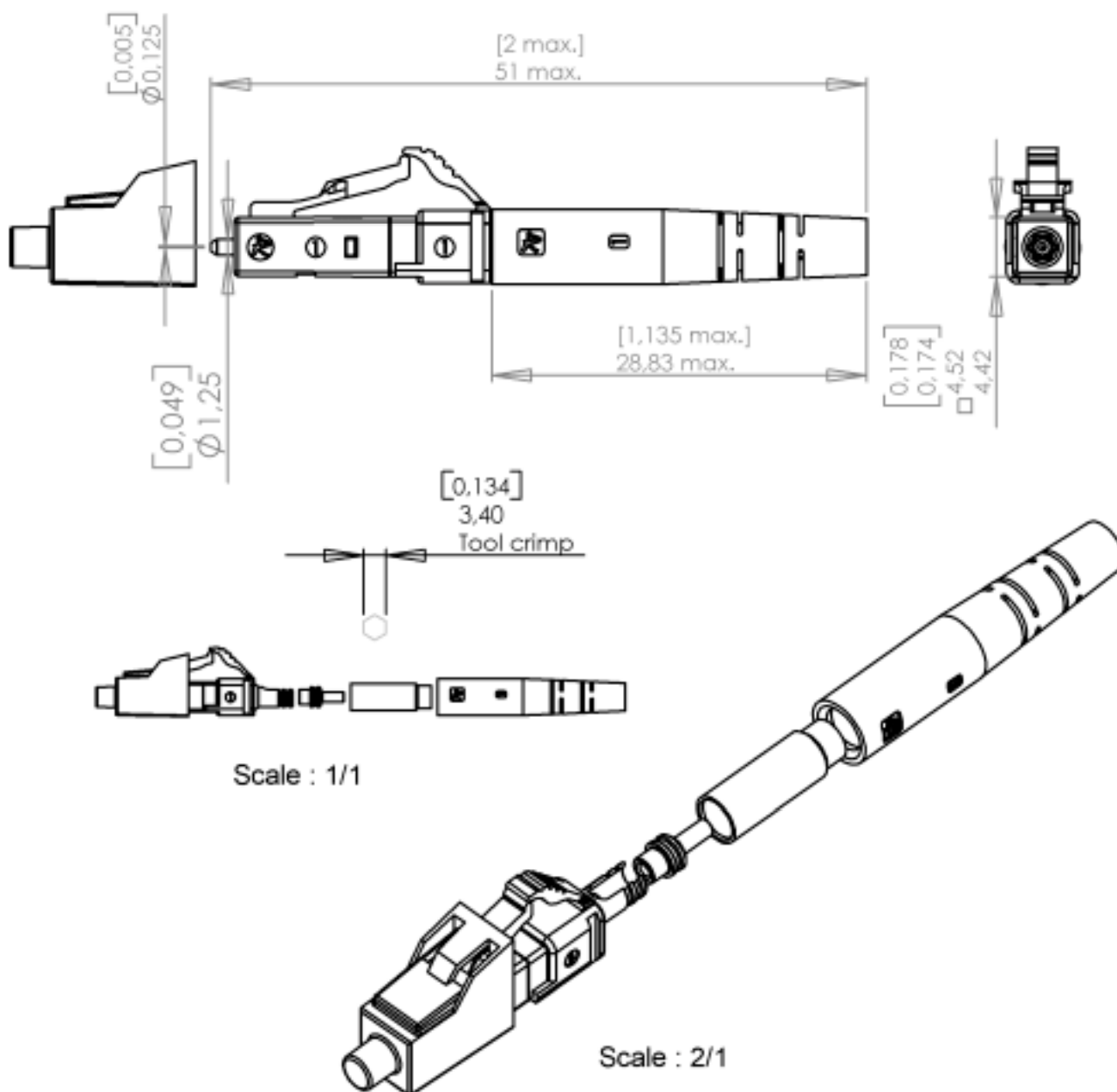
Series
LC

Issue
30 JAN 06

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Outer plug body : color BLUE

Monobloc



Original dimensions in mm [inch]

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GENERAL

- ❑ **TYPE** IEC 61754-20 (LC)
Singlemode Zirconia ferrule
RJ -45 latching connector system
- ❑ **FERRULE SIZE** 125.3 µm
- ❑ **FIBER SIZE** 9/125µm singlemode
- ❑ **CABLE SIZE & TYPE** Ø2.0 mm Simplex
- ❑ **CABLING PROCEDURE** Refer to 503 08 500 assembly instruction manual

CHARACTERISTICS (Depending on fibre or cable construction)

- ❑ **OPTICAL** Attenuation at 1300 nm and 1550 nm
Attenuation plug mated with reference plug : IEC 61300-3-4 Method B

PARAMETER	STD
Mean	≤0.10 dB
Standard deviation	≤0.05 dB

Attenuation of random mated connectors : IEC 61300-3-34

PARAMETER	STD
Mean	≤0.10 dB
Standard deviation	≤ 0.07 dB

Return-Loss Maximum loss variation : IEC 61300-3-6

	RL
PC	> 35 dB
SPC	> 40 dB
UPC	> 50 dB

- ❑ **MECHANICAL**

Vibration test	10 to 55 Hz , 1,5 mm (peak to peak) , 2 Hr/axis
Impact test	1,5 m drop , 8 cycles
Mechanical Endurance	200 matings
Cable retention	68 N
- ❑ **ENVIRONMENTAL**

Storage temperature range	-40 °C to +85 °C
Operating temperature range	-40 °C to +70 °C
Thermal cycle test	-40°C to +75°C , 21 Cycles , 168
Humidity/Condensation cycling test	95% RH , -10°C to +65°C , 14 cycles , 168 Hr

(Performance and specification : see document GEN – F727 001)