



**RADIALL**  
Optical Fiber Components

## TECHNICAL DATA SHEET

# F727.100.500

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

Packaging  
100

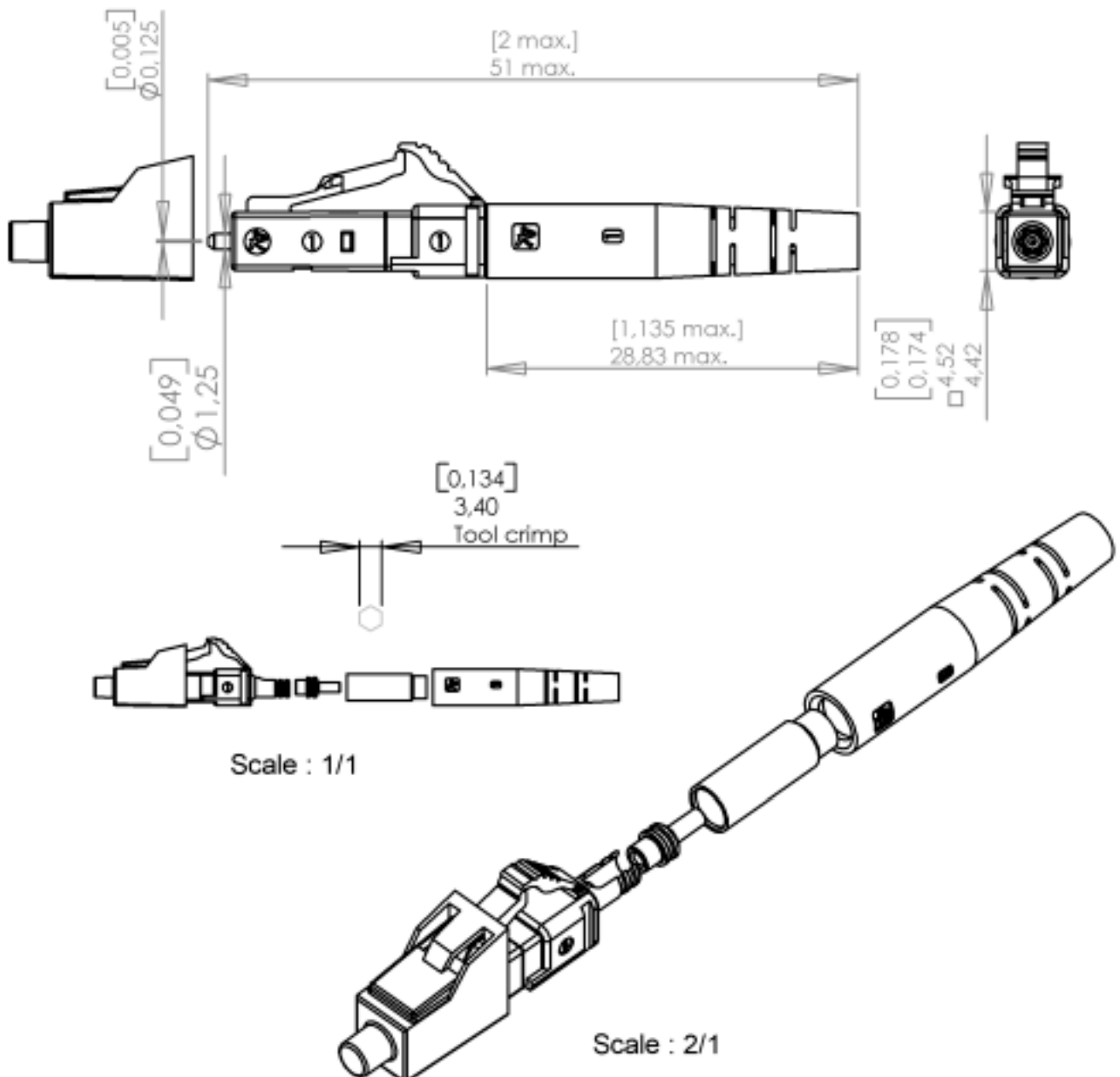
Series  
LC

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)