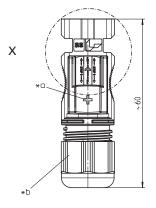


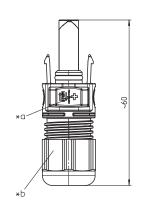


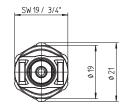


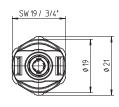
LC4-CP 30

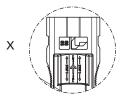
LC4-CP 31













LC4-CP 30 IT

- *a marking + on LC4-CP ...-1, bei LC4-CP ...-2
- *b hexagonal nut

Standard packaging: pre-assembled, contacts in bulk, sorted in plastic bags of 50 pieces, in a cardboard box

LC4-CP 30 **LC4-CP 31**

Photovoltaic connector, field-attachable, with integrated locking and crimp contact

LC4-CP 30: plug LC4-CP 31: socket

1. Temperature range -40 °C/+85 °C

(+110 °C upper limit temperature)

2. Materials halogen-free, UV-resistant m-PPE, V0 according to UL 94

Insulating body/housing Contact pin/bush CuNiSi, tinned

NBR

PC, V1 according to UL 94 Cap nut

3. Mechanical data

Insertion force1 $\leq 20 \ N \\ \geq 10 \ N$ Withdrawal force1 Retaining force of locking latches² ≥ 90 N Mating cycles² Tightening torque cap nut 50 3.5-4.5 N

Mating with photovoltaic connectors LC4

Protection degree³ IP 68

Connectable conductors crimp terminal

Photovoltaic cable, double-insulated⁴ Section LC4-CP ... 2.5 Section LC4-CP ... 4.0/6.0 2.5 mm² (AWG 14) 4.0 mm² (AWG 12), 6.0 mm² (AWG 10)

Cable diameter 6.2-7.8 mm Approved cables on the Internet site www.lumberg.com

4. Electrical data (at T_{amb} 20 °C)

Contact resistance² ≤ 5.0 mΩ 22 A at T_{amb} 85 °C 30 A at T_{amb} 85 °C 1000 V DC (UL 600 V DC) Rated current² LC4-CP ... 2.5 Rated current² LC4-CP ... 4.0/6.0 Rated voltage⁵ Overvoltage category⁵ Material group⁵ III (8 kV) I (IEC)/0 (UL) (CTI ≥ 600) Creepage distance ≥ 28.2 mm

Clearance \geq 28.2 mm > 10 GΩ Insulation resistance

measured with a polished steel gauge, nominal thickness 4.0 mm

measured with a proper counterpart

only in mated condition with a proper counterpart

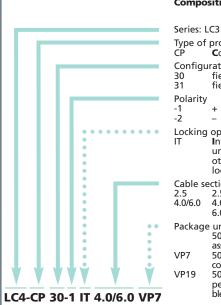
IP X8 requirements under agreement between manufacturer and user wire construction preferably according to IEC 60228 class 5, otherwise

crimp connection must be tested according to DIN EN 60664/IEC 60664 resp. according to ANSI/UL 746A









Composition of type designation

Series: LC3 or LC4 Type of product Connector Part

Configuration

field-attachable plug field-attachable socket

Locking option
IT Internal locking is only unlockable with a Tool, otherwise it can be unlocked manually

Cable section 2.5 2.5 mm² (AWG 14) 4.0/6.0 4.0 mm² (AWG 12) and 6.0 mm² (AWG 10)

Package unit option

50 pieces (standard, pre-assembled, contacts in bulk) 500 pieces (pre-assembled, contacts in bulk)
50 pieces (one plastic bag

per connector, pre-assembled, contacts in bulk)