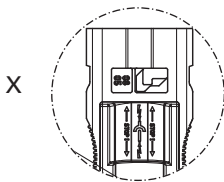
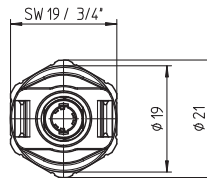
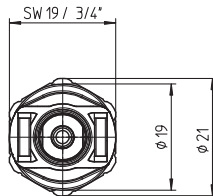
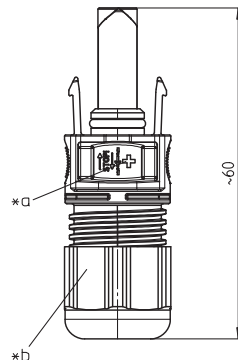
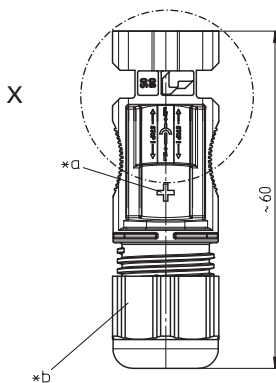



LC4-CP 30

LC4-CP 31

LC4-CP 30 IT

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

LC4-CP 30
LC4-CP 31

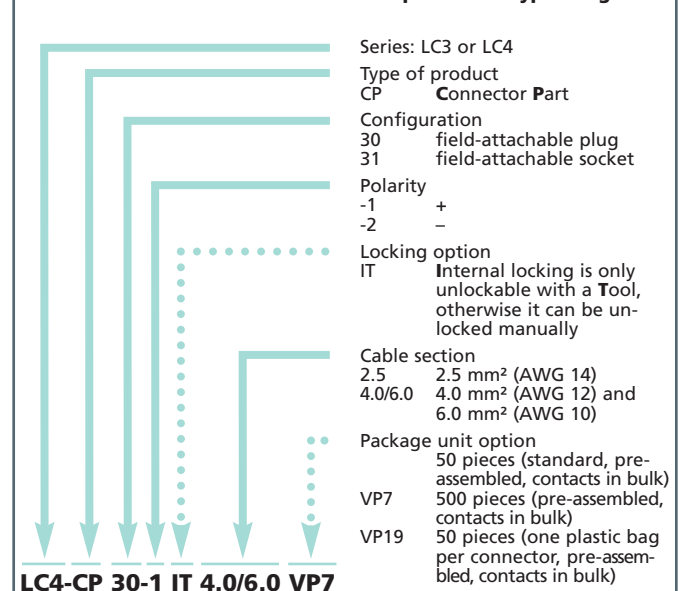
Photovoltaic connector, field-attachable, with integrated locking and crimp contact

LC4-CP 30: plug

LC4-CP 31: socket

- 1. Temperature range** -40 °C/+85 °C
(+110 °C upper limit temperature)
- 2. Materials**
 Insulating body/housing m-PPE, V0 according to UL 94
 Contact pin/bush CuNiSi, tinned
 Seal NBR
 Cap nut PC, V1 according to UL 94
- 3. Mechanical data**
 Insertion force¹ ≤ 20 N
 Withdrawal force¹ ≥ 10 N
 Retaining force of locking latches² ≥ 90 N
 Mating cycles² 50
 Tightening torque cap nut 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 2.5 mm² (AWG 14)
 Section LC4-CP ... 4.0/6.0 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
 Rated current² LC4-CP ... 2.5 22 A at T_{amb} 85 °C
 Rated current² LC4-CP ... 4.0/6.0 30 A at T_{amb} 85 °C
 Rated voltage⁵ 1000 V DC (UL 600 V DC)
 Overvoltage category⁵ III (8 kV)
 Material group⁵ I (IEC)/0 (UL) (CTI ≥ 600)
 Creepage distance ≥ 28.2 mm
 Clearance ≥ 28.2 mm
 Insulation resistance > 10 GΩ

¹ measured with a polished steel gauge, nominal thickness 4.0 mm
² measured with a proper counterpart
³ only in mated condition with a proper counterpart
⁴ IP X8 requirements under agreement between manufacturer and user
⁵ 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


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