



Connectivity solutions for photovoltaic power systems

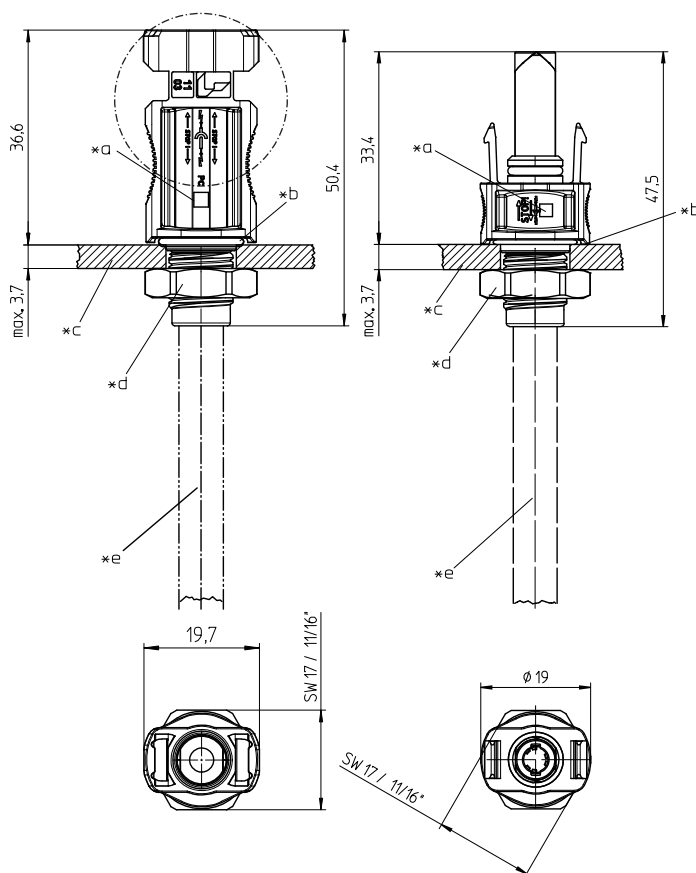
LC4®-CP – Connector Parts without cable



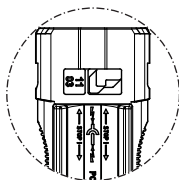
LC4-CP 10



LC4-CP 11



X



LC4-CP 10 IT

*a marking + on LC4-CP 1...-1, - on LC4-CP 1...-2

*b sealing

*c chassis panel

*d nut enclosed separately

e cable with mounted contact to be inserted into the housing after crimping process

*f port

LC4-CP 10 LC4-CP 11

LC4® photovoltaic chassis receptacle, with integrated locking and crimp contact, for front mounting

LC4-CP 10: plug

LC4-CP 11: socket

- Temperature range**
 - 40 °C/+85 °C (IEC)
 - 40 °C/+90 °C (UL)
 - (+125 °C upper limit temperature)
- Materials**
 - Insulating body: halogen-free, UV-resistant
 - Contact pin/bush: m-PC, V1 according to UL 94
 - Sealing (sockets only): CuNiSi, tin-plated
 - Hexagonal nut: silicone
 - PA GF, HB according to UL 94
- Mechanical data**
 - Insertion force¹: ≤ 20 N
 - Withdrawal force¹: ≥ 10 N
 - Retaining force of locking latches²: ≥ 90 N
 - Mating cycles²: 50
 - Tightening torque nut: 0.8–1.1 Nm
 - Mating with: photovoltaic connectors LC4
 - Protection degree³: IP 68
- Electrical data (at T_{amb} 20 °C)**
 - Connectable conductors crimp terminal** stranded wire, insulated⁴
 - Section LC4-CP 1... 2.5: 2.5 mm² (AWG 14)
 - Section LC4-CP 1... 4.0: 4.0 mm² (AWG 12)
 - Section LC4-CP 1... 6.0: 6.0 mm² (AWG 10)
 - Contact resistance²: ≤ 1 mΩ
 - Rated current (IEC)²
 - LC4-CP 1... 2.5: 22 A at T_{amb} 85 °C
 - LC4-CP 1... 4.0 and 6.0: 30 A at T_{amb} 85 °C
 - Rated current (UL)²: 35 A at T_{amb} 20 °C, all sections
 - Rated voltage⁵: 1000 V DC (IEC)/600 V DC (UL)
 - Overvoltage category⁵: III (8 kV)
 - Material group⁵: IIIa (IEC)/3 (UL) (CTI ≥ 225)
 - Creepage distance/clearance between contact and touchable surface: 28.3 mm
 - Insulation resistance: > 10 GΩ

¹ measured with a polished steel gauge, nominal thickness 4.0 mm

² measured with a proper counterpart

³ according to IEC 60529/DIN EN 60529

⁴ only in mated condition with a proper counterpart

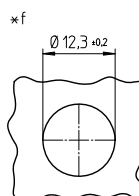
⁵ IP X8 requirements under agreement between manufacturer and user

wire construction preferably according to IEC 60228 class 5, for more details see separate data sheet on request

according to DIN EN 60664/IEC 60664 resp. according to ANSI/UL 746A



• BAUART
• GEPROBT
• TYPE
• APPROVED



Composition of type designation

Series: LC3 or LC4

Type of product
CP Connector Part

Configuration
10 chassis plug
11 chassis socket

Polarity
-1 +
-2 -

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 4.0 mm² (AWG 12)
6.0 6.0 mm² (AWG 10)

Package unit option
100 pieces (standard, individual parts in bulk, sorted)
VP19 100 pieces (one plastic bag per connector, individual parts)

LC4-CP 10-1 IT 4.0 VP19

Standard packaging: individual parts in bulk, sorted in plastic bags of 100 pieces, in a cardboard box