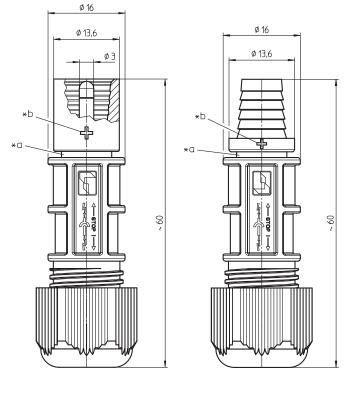






LC3-CP 30

LC3-CP 31





LC3® photovoltaic connector, field-attachable, with crimp contact

LC3-CP 30: plug LC3-CP 31: socket

1. Temperature range

-40 °C/+85 °C

(+110 °C upper limit temperature)

2. Materials

Insulating body/housing

halogen-free, UV-resistant TPU, V0 according to UL 94

Contact pin/bush Contact protection (plugs only)

CuZn, pre-nickeled and tinned PA, V0 according to UL 94

Sleeve (sockets only) Cap nut Seal

CuZn, vernickelt PA, V0 according to UL 94

3. Mechanical data

Insertion force¹ ≤ 89 N Withdrawal force1 ≥ 89 N Mating cycles¹
Tightening torque cap nut²
Mating with 50 2-3 Nm

photovoltaic connectors LC3 IP 68

Protection degree³ IP 68

Connectable conductors crimp terminal

Photovoltaic cable, double-insulated4

2.5 mm² (AWG 14) 4.0 mm² (AWG 12) Section LC3-CP 3... 2.5 Section LC3-CP 3... 4.0

Section LC3-CP 3... 6.0 6.0 mm² (AWG 10) Cable diameter 4-8 mm

Approved cables on the Internet site www.lumberg.com

4. Electrical data (at T_{amb} 20 °C)

 \leq 5 m Ω 22 A at T_{amb} 85 °C 35 A at T_{amb} 85 °C 40 A at T_{amb} 85 °C 1000 V DC Contact resistance¹ Rated current¹ LC3-CP 3... 2.5 Rated current¹ LC3-CP 3... 4.0 Rated current¹ LC3-CP 3... 6.0 Rated voltage⁵ Overvoltage category⁵ III (8 kV) I (IEC)/0 (UL) (CTI ≥ 600) ≥ 12.5 mm Material group⁵

Creepage distance Clearance

Insulation resistance > 10 GΩ

measured with a proper counterpart strain relief test according to TÜV specification ensured by use of cable according to Lumberg specification

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

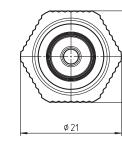
according to DIN EN 60664/IEC 60664 resp. according to ANSI/UL 746A

Composition of type designation



9





*a recess for optional unmating preventer LC3-CX 90 according to NEC 2008 NFPA 70

6

*b marking + on LC3-CP ...-1, - on LC3-CP ...-2

Ø 20,9

Series: LC3 or LC4 Type of product CP **C**onnec Connector Part Configuration 30 field-attachable plug 31 field-attachable socket Polarity -1 -2 Cable section 2.5 2.5 mm² (AWG 14) 4.0 mm² (AWG 12) 6.0 mm² (AWG 10) 4.0 6.0 Package unit option 50 pieces (standard, individual parts in bulk, sorted)
500 pieces (individual parts VP7 in bulk, sorted) VP19 50 pieces (one plastic bag per connector) LC3-CP 30-1 4.0 VP7

Standard packaging: individual parts in bulk, sorted in plastic bags of 50 pieces, in a cardboard box