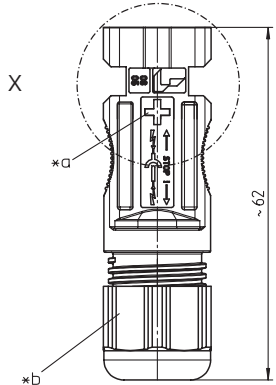
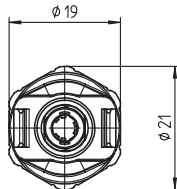
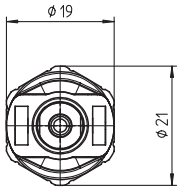
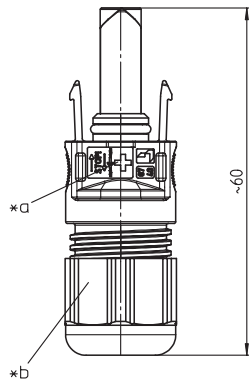




LC4-CP 30



LC4-CP 31



LC4-CP 30
LC4-CP 31

Photovoltaic connector, field-attachable, with crimp contact
LC4-CP 30: plug
LC4-CP 31: socket

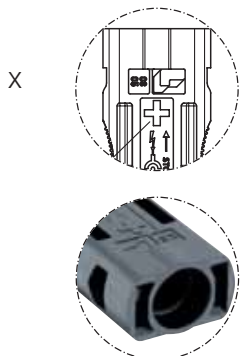
1. Temperature range	-40 °C/+90 °C (+110 °C upper limit temperature)
2. Materials	
Body/housing	PPE/PS, V0 according to UL 94 halogen-free, UV-resistant
Contact pin/bush	CuZn, pre-nickel and tinned
Seal	NBR
Cap nut	PET GF, V0 according to UL 94
3. Mechanical data	
Insertion force ¹	≤ 20 N
Withdrawal force ¹	≥ 10 N
Retaining force of locking latches ²	≥ 90 N
Mating cycles	50
Tightening torque cap nut	2–3 N
Mating with	photovoltaic connectors LC4
Protection degree ³	IP 67
Connectable conductors crimp terminal	
Section LC4-CP ... 2.5	2.5 mm ² (AWG 14)
Section LC4-CP ... 4.0	4.0 mm ² (AWG 12)
Section LC4-CP ... 6.0	6.0 mm ² (AWG 10)
4. Electrical data (at T_{amb} 20 °C)	
Contact resistance ²	≤ 5.0 mΩ
Rated current LC4-CP ... 2.5	22 A at T _{amb} 85 °C
Rated current LC4-CP ... 4.0	35 A at T _{amb} 85 °C
Rated current LC4-CP ... 6.0	40 A at T _{amb} 85 °C
Rated voltage ⁴	1000 V DC (UL = 600 V DC)
Overvoltage category ⁴	III (8 kV)
Material group ⁴	IIIa (CTI ≥ 250)
Creepage distance	≥ 28.2 mm
Clearance	≥ 28.2 mm
Insulation resistance	> 10 GΩ
Protective class	II

¹ measured with a polished steel gauge, nominal thickness 4.0 mm
² measured with a proper counterpart
³ 1 m/24 h, only in mated condition with a proper counterpart
⁴ IP X8 requirements under agreement between manufacturer and user according to DIN EN 60664/IEC 60664

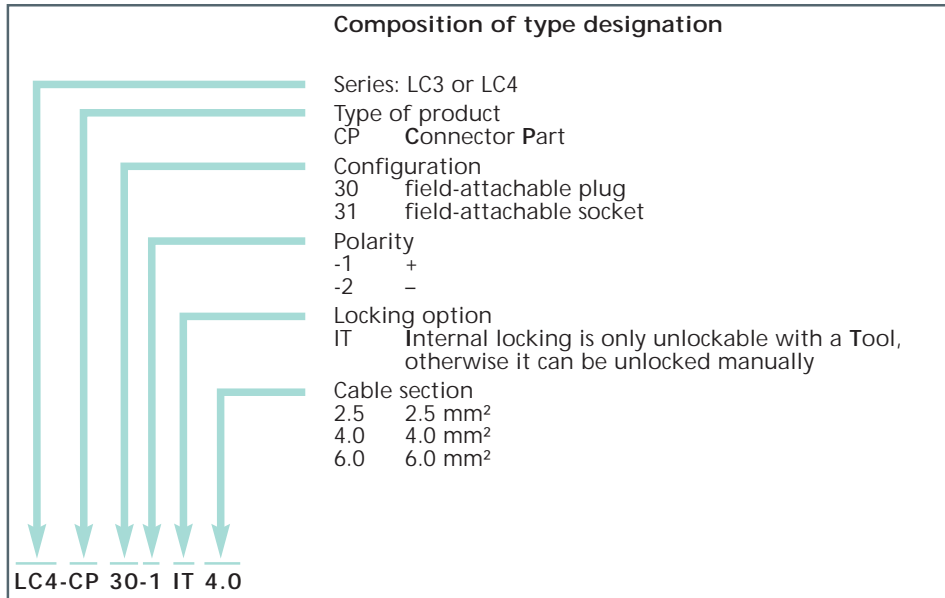


Approvals
under preparation

LC4-CP 30 IT



*a marking + on LC3-CP ...-1, - bei LC3-CP ...-2



Features and benefits

- can be assembled anywhere on-site
- convenient for smaller installations
- complements the wiring concept with pre-assembled, overmolded connectors, like for feeding lines
- two locking options: unlockable either manually or only with a tool, according to NEC 2008 NFPA 70
- quick and easy assembly
- only one tool necessary for 2.5 mm², 4 mm² and 6 mm²
- rugged and durable for permanently reliable system operation
- with contact-voltage protection
- highest protection degree IP 68
- UV and ozone-resistant
- halogen-free

LC4®

Typical examples

Designation	Description	Polarity	Section (mm ²)
LC4-CP 30-1 2.5	field-attachable plug	+	2.5
LC4-CP 30-2 4.0	field-attachable plug	-	4.0
LC4-CP 30-1 6.0	field-attachable plug	+	6.0
LC4-CP 30-1 IT 6.0	field-attachable plug unlockable only with a tool	+	6.0
LC4-CP 31-2 4.0	field-attachable socket	-	4.0

Package unit: 50 pieces in a cardboard box