
LC3-JC
LC4-JC

Photovoltaic junction box for crystalline modules¹, with connecting cables and connectors (alternatively LC3® or LC4®), with 2–6 **spring clamps** and 0–5 diodes for ribbons fed through the back plane of the module, mounting with self-adhesive pad² or by means of glue

1. Temperature range	-40 °C/+85 °C (IEC) -40 °C/+90 °C (UL) (+125 °C upper limit temperature)
2. Materials	halogen-free, UV-resistant Housing/cover m-PPE, 5VA according to UL 94 Contact CuNiSi, tinned Pressure contact spring CrNi Cap nut m-PC, V0 according to UL 94 Seal NBR Pressure compensation seal PTFE Adhesive pad upon request
3. Mechanical data	Tightening torque cap nut 3.5–4 Nm Mating with photovoltaic connectors LC3/LC4 Further data see LC3-AM/LC4-CP 3.../LC4-AM Protection degree (junction box) ³ IP 65 Connectable contact ribbons Width ≤ 10.0 mm Thickness ≤ 0.1 mm Other dimensions upon request Connected conductor Photovoltaic cable, double-insulated, technical Data upon request Section alternatively 4.0 mm ² (AWG 12) or 6.0 mm ² (AWG 10)
4. Electrical data (at T_{amb} 20 °C)	Contact resistance ≤ 1 mΩ Rated current (IEC) various diodes available, value depending on type of diode and diode bypass test, details upon request 15 A DC (AWG 14) 20 A DC (AWG 12, AWG 10) Rated current (UL) without diode, details upon request 1000 V DC (IEC)/600 V DC (UL) Rated voltage ⁴ 100 V DC Modul working voltage 100 V DC Overvoltage category ⁴ III (8 kV) Material group ⁴ IIIa (IEC)/2 (UL) (CTI ≥ 250) Creepage distance/clearance between all other live parts 12.7 mm/9.5 mm live parts and touchable surfaces 20.0 mm Pollution degree ⁴ 3 Protective class II Insulation resistance > 10 GΩ

¹ according to application class A of IEC 61730-1/UL 1703
² appropriate materials upon request
³ according to IEC 60529/DIN EN 60529
⁴ according to DIN EN 60664/IEC 60664 resp. according to ANSI/UL 746A



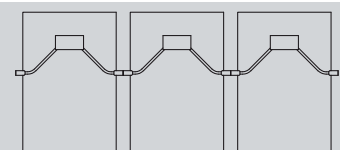
• BALIART
 • GEPRÜFT
 • TYPE
 • APPROVED



- *a self-adhesive pad option
- *b spacer option for fixation by means of glue
- *c assembly hole for contact ribbons, view without cover
- *d connecting cables: section 4.0 mm² (AWG 12) or 6.0 mm² (AWG 10)
- *e connecting cables: section 4.0 mm² (AWG 12) or 6.0 mm² (AWG 10)
- *f left connector: LC3-AM, LC4-CP 3... or LC4-AM
- *g right connector: LC3-AM, LC4-CP 3... or LC4-AM
- *h dimensions for 5 or 6 clamps versions

Crystalline modules:
Wiring diagram

Two-pole junction boxes, for ribbons fed through the back plane of the module


Designation

LC3-JC	details upon request
LC4-JC	details upon request