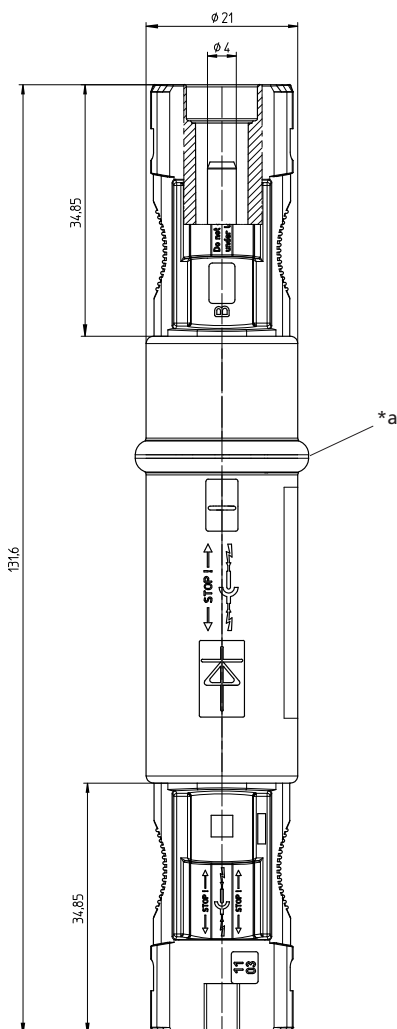



LC4-CP 970 IT


*a embossment identifying the cathode side

Designation
LC4-CP 970 IT D02 4A 1000V
Connectivity solutions for photovoltaic power systems
LC4®-CP – Connector Parts without cable
LC4-CP 970

LC4® in-line diode connector assembly for photovoltaic installations¹, overmolded, plug-plug

- | | |
|---|---|
| 1. Temperature range | -40 °C/+85 °C
(+110 °C upper limit temperature) |
| 2. Materials | halogen-free, UV-resistant |
| Insulating body/housing | m-PC, V1 according to UL 94 |
| Housing | m-PC, V1 according to UL 94 |
| Contact pin/bush | CuNiSi, tin-plated |
| Inner contacts | CuNiSi, tin-plated |
| Sealing (sockets only) | silicone |
| 3. Mechanical data | |
| Insertion force ² | ≤ 20 N |
| Withdrawal force ² | ≥ 10 N |
| Retaining force of locking latches ² | ≥ 90 N |
| Mating cycles ² | 50 |
| Mating with | photovoltaic connectors LC4 |
| Protection degree ³ | IP 68 |
| 4. Electrical data (at T_{amb} 20 °C) | |
| Contact resistance | ≤ 5 mΩ |
| Rated current and voltage | various diodes available,
values depending on type of diode,
details upon request |
| Overvoltage category ⁴ | III (8 kV) |
| Material group ⁴ | IIIa (IEC)/3 (UL) (CTI ≥ 225) |
| Creepage distance/clearance ² between
contact and touchable surface | 28.3 mm |
| Insulation resistance | > 10 GΩ |

¹ according to application class A of IEC 61730-1/UL 1703

² measured with a proper counterpart

³ according to IEC 60529/DIN EN 60529

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 resp. according to ANSI/UL 746A


Composition of type designation
