



*a embossment identifying the cathode side

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

Designation
LC3-CP 970 D02 4A 1000V
Package unit: 100 pieces in a cardboard box
www.lumberg.com
LC3-CP 970
LC3® 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	TPU, V0 according to UL 94
Inner shells	m-PPE, V0 according to UL 94
Contact pin	CuZn, pre-nickel and tinned
Contact protection	PA, V0 according to UL 94
Inner contacts	CuNiSi, tinned
3. Mechanical data	
Insertion force ²	≤ 89 N
Withdrawal force ²	≥ 89 N
Mating cycles ²	50
Mating with	photovoltaic connectors LC3
Protection degree ³	IP 68
4. Electrical data (at T_{amb} 20 °C)	
Rated current and voltage	various diodes available, values depending on type of diode, details upon request
Material group ⁴	I (IEC)/0 (UL) (CTI ≥ 600)
Creepage distance ⁴	≥ 12.5 mm
Clearance ⁴	≥ 12.5 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

Approvals under preparation

Composition of type designation
