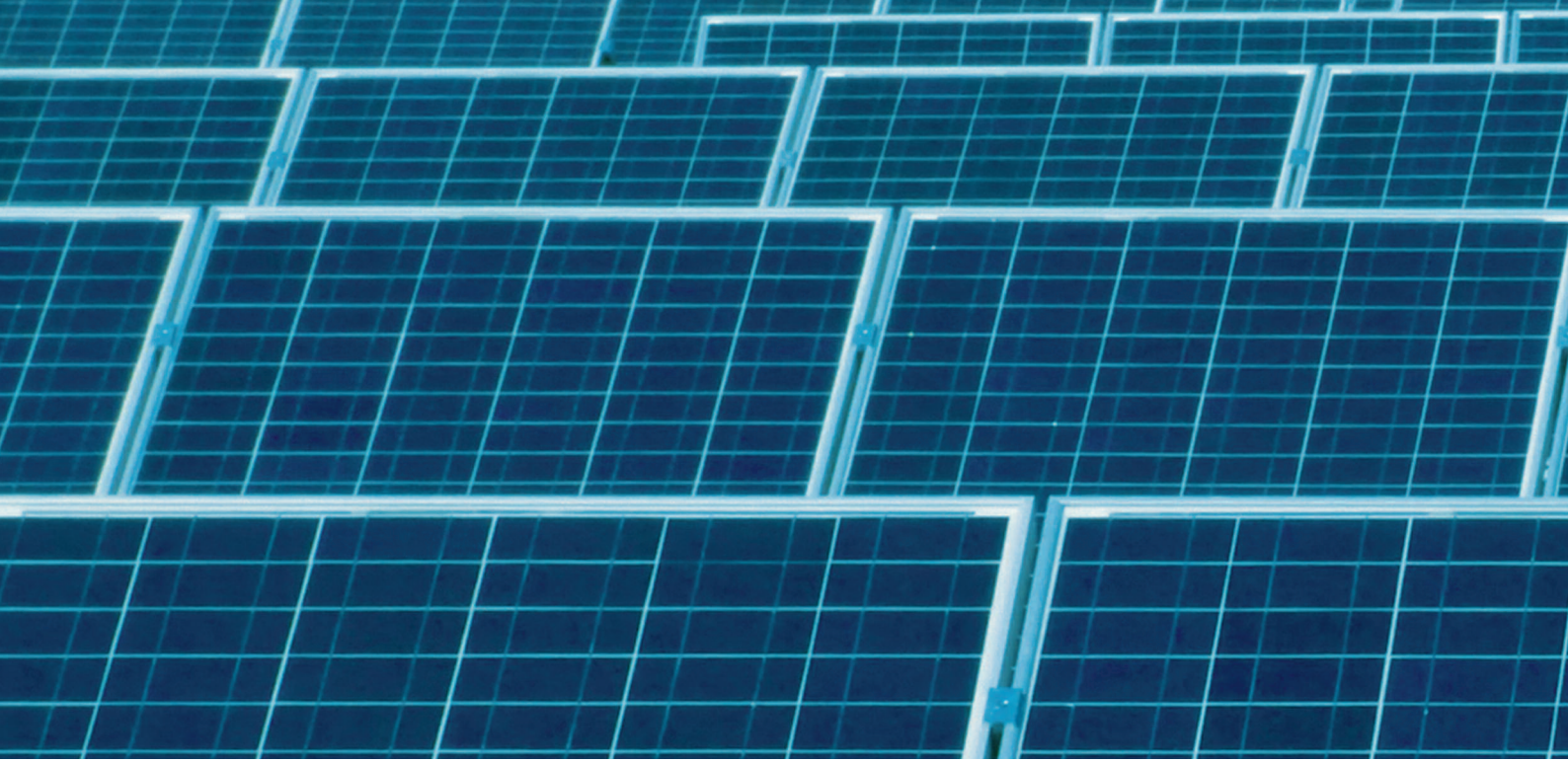

Cable Solutions

Solutions for Solar Systems

LÜTZE
Systematic Technology

Solar Cables

LÜTZE Thermoflex Solar XPE

Application
- Fixed installation and moving application without tensile load
- Suitable for installation in dry and humid rooms, for outdoor use, in direct sun radiation too
- Not suitable for direct burial

Properties
- LÜTZE THERMOFLEX Solar XPE is halogen free, flame resistant and fire retardant
- No corrosive gases will be released in case of fire, the smoke density is low
- Material of insulation and jacket are excellent resistant to weathering, UV-radiation and abrasion
- The large temperature range enables the use of this cable in extreme climatic environment
- The cable is flexible and designed for high mechanical load
- A product life cycle of 25 years for THERMOFLEX Solar XPE is to be expected
- Insulation and jacket are easily removable
- Widely resistant to Sea water, Ozone, acids and bases
- All materials used in the cable are conform to European RoHS-directive
- VDE-approval acc. to German DKE specification for photovoltaic cables, dated 12.02.2008 (identical to TÜV-Specification 2 PfG 1166/08.2007); VDE Reg.-No. 8293

Technical data

Voltage	
U_0/U	AC 0,6/1kV, DC 0,9/1,5 kV
Test voltage	
(online testing)	8 kV
Insulation resistance	at 20 °C ≥ 800 MΩ × km
Short-circuit-proof	at 200 °C / 5 s
Hot elongation test	at 250 °C
Temperature test	20.000 h at 120 °C
Temperature range	
fixed	-50 °C to +150 °C
moving	+25 °C to +125 °C
Minimum bending radius	
fixed	Cable diameter × 5
moving	Cable diameter × 10

Design
- Tinned stranded conductor according to DIN VDE 0295 class 5 and IEC 60228 class 5
- Outer jacket black. Differentiation of Plus- and Minus the signs “+“ and “-“ are printed on the jacket
- Additional Types of PV-cables are available on request:
  Coloured Versions:
  outer jacket coloured red or blue
  Duplex version:
  double core cable, "figure 8", to be separated easily
- **LÜTZE THERMOFLEX Solar XPE UL:**
  Construction acc. to US-standards, listed acc. to UL subject 4703 certified special version for the US market
  technical Data and ordering information on request

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
Signs "+"				
103149	1×2,5	4.5	4.0	2.4
103150	1×4	5.2	5.9	3.8
103151	1×6	5.9	8.1	5.8
103152	1×10	6.9	12.7	9.6
103153	1×16	8.3	19.3	15.3
103154	1×25	9.6	28.4	24.0
103155	1×35	11.0	37.8	33.6
Signs "-"				
103159	1×2,5	4.5	4.0	2.4
103160	1×4	5.2	5.9	3.8
103161	1×6	5.9	8.1	5.8
103162	1×10	6.9	12.7	9.6
103163	1×16	8.3	19.3	15.3
103164	1×25	9.6	28.4	24.0
103165	1×35	11.0	37.8	33.6

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC

Solar Panel Connector

Panel Connector for Photovoltaik Arrays
TÜV and UL recognized

Part-No. 199947

Part-No. 199948

Part-No. 199946

Part-No. 199945

4,0 mm Panel Connector - Self-locked Type (Apply to Cable Assembly)	
	Part.-No.
	199947
	199948
Technical Data	
Pin dimensions	4,0 mm
Suitable cables	5,0 mm - 8,0 mm
Suitable cable cross sections	4,0 - 6,0 mm² AWG 12 - AWG 10
Contact type	stamp roll contact
Rated Voltage	1.000 V DC
Rated current	30 A at 70°C / 25 A at 85° C
Contact resistance	< 5 m Ohm
Material	
Contact material	Cu
Contact surface material	Tin plated
Housing material	PPO
Environmental Conditions	
Protection Class	IP67 (IEC 60529)
Temperature range	-40 °C - + 90 °C
Inflammability class	UL 94V-0
Approvals	
TÜV Certification	2 PfG 1161/01.06
UL Certification	

4,0 mm Panel Connector - Self-locked Type (Apply to Cable Assembly)	
	Artikelnummer
	199945
	199946
Technische Daten	
Pin dimensions	4,0 mm
Suitable cables	5,0 mm - 8,0 mm
Suitable cable cross sections	4,0 - 6,0 mm² AWG 12 - AWG 10
Contact type	stamp roll contact
Rated Voltage	1.000 V DC
Rated current	30 A at 70°C / 25 A at 85° C
Contact resistance	< 5 m Ohm
Material	
Contact material	Cu
Contact surface material	Tin plated
Housing material	PPO
Umgebungsbedingungen	
Protection Class	IP67 (IEC 60529)
Temperature range	-40 °C - + 90 °C
Inflammability class	UL 94V-0
Approvals	
TÜV Certification	2 PfG 1161/01.06
UL Certification	

More types on request!
All cables and connectors are also assembled supplied.
For further requests: info@luetze.de or Tel.: +49 7151 6053 -0

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