

Solar Cable

Electron beam cross-linked Solar PV twin core cable

Description:

These cables are developed according to PV1-F requirements and designed to meet the rigours of the outdoor application environment and provide long term durability and flexibility, combined with ease of installation.

Twin core solar cables provide a durable, high performance interconnection solution between photovoltaic (PV) panels and from the panels to the inverter.

Sheath colour:

Black

Inner insulation:

XLPE (Black, Red)

Sheath insulation:

XLPE (Crosslinked Polyethylene)

Test voltage according to EN 50395-6:

6,5 kV AC / 15 kV DC (5 min.)

Rated current:

55 A (4.0 mm²), 70 A (6.0 mm²)

Nominal voltage:

U0 / U: 0,6 / 1 kV AC / max. 1,8 kV DC

Insulation resistance of the complete cable:

≥ 1000 MΩkm in accordance to EN 50395-8.2

Ambient temperature:

−40 °C ...+90 °C

Maximum conductor temperature:

max. +120 °C

Bending radius:

Dynamic: >4 × OD

Resistant to:

UV: HD 605/A1 / Ozone: EN 50396

Resistance to... tested according to IEC 60811-2-1

Acids and alkali

Approvals:

TÜV R 50356448 (tested according to 2PFG 1169/08.2007)

Packaging:

Standard: 100m and 500m drums.

Available on request: As per customer requirements (i.e. 1000m, 2000m, 5000m).

Marking:

RALOS CABLE 0.9/1.8KV DC 2X6 SQ.MM DC SOLAR CABLE RED TÜV 2PFG 1169 PV1-F TYPE APPROVED.

CAUTION: DO NOT DISCONNECT UNDER LOAD. R50356448.

Meter marked.

DC SOLAR CABLE 0.9/1.8kV DC TUV 2PFG 1169 PV1-F

Part No.	Conductor cross section mm ²	Conductor Ø mm	Outer Ø mm	Strand design: Number x Ø (mm)	Conductor resistance/ 20°C Ω / km	Insulation colours	Jacket colour	Approvals	Reel Size
RC2C4T100	2 x 4.0	2.4	9.4 x 4.6	52 x Ø 0.30	5.09	Black / Red	Black	TUV	100m
RC2C4T500	2 x 4.0	2.4	9.4 x 4.6	52 x Ø 0.30	5.09	Black / Red	Black	TUV	500m
RC2C6T100	2 x 6.0	3.06	10.8 x 5.3	78 x Ø 0.30	3.39	Black / Red	Black	TUV	100m
RC2C6T500	2 x 6.0	3.06	10.8 x 5.3	78 x Ø 0.30	3.39	Black / Red	Black	TUV	500m