

Solar Cable

Multi-Contact

MC

STÄUBLI GROUP

Electron beam cross-linked solar PV single core cable

Description

These cables are developed according to TUV EN50618 requirements and designed to meet the rigours of the outdoor application environment and provide long term durability and flexibility, combined with ease of installation.

Single 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 (White)

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), 98A (10mm²)

Nominal voltage

1500 V/max. 1800 V (U₀) (IEC)

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: >5 × OD

Static >4 × OD

Resistant to

UV: HD 605/A1 / Ozone: EN 50396

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

Acids, alcalis and oil (IRM902)

TUV Approvals

Approval according to EN50618

H1Z272-K R50359551

Packaging

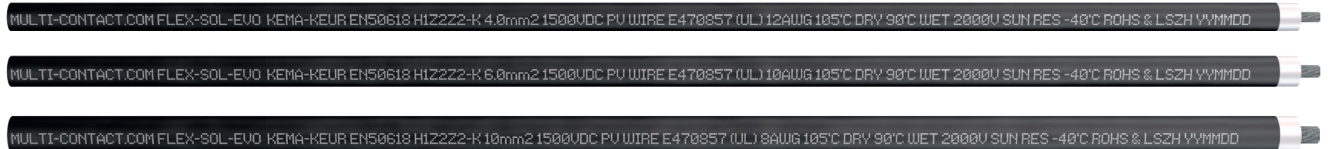
Standard: 1000m drum

500m drum available on request.

Marking

As per image.

Meter marked.



| Part No. | Conductor cross section mm ² | Approx. overall Ø mm | Strand design: Number x Ø (mm) | Conductor resistance/20°C Ω / km | Insulation colours | Jacket colour | Approvals | Reel Size |
|---------------|---|----------------------|--------------------------------|----------------------------------|--------------------|---------------|-------------|-----------|
| SC1C4TEN1000 | 1 x 4 | 5.4 | 52 x Ø 0.30 | 5.09 | White | Black | TUV EN50618 | 1000m |
| SC1C6TEN1000 | 1 x 6 | 6.0 | 78 x Ø 0.30 | 3.39 | White | Black | TUV EN50618 | 1000m |
| SC1C10TEN1000 | 1 x 10 | 7.2 | 77 x Ø 0.40 | 1.95 | White | Black | TUV EN50618 | 1000m |