

## 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 to 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. Direct burial applicable, high water-resistant performance.

### Sheath colour

Black

### Inner insulation

XLPE (White)

### Sheath insulation

XLPO (Crosslinked Polyolefin)

### Nominal voltage

1500 V/max. 1800 V (U0) (IEC)

### Test voltage according to EN 50395-6

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

### Rated voltage

1500 V DC IEC

### Rated current

55 A (4.0 mm<sup>2</sup>), 70 A (6.0 mm<sup>2</sup>), 98A (10mm<sup>2</sup>)

### 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 x OD, Static >4 x OD

### Resistant to

UV: HD 605/A1 / Ozone: EN 50396  
Acids, alcalis and oil (IRM902)

### TUV Approvals

Approval according to IEC62930, EN50618  
H1Z2Z2-K  
JBT 10696.9.2011 (termite-resistant)  
R50359551  
Certified and compliant to TUV 2PFG  
1169/08.07 PV1-F

### Packaging

Standard: 500m or 1000m drum.  
Other packaging available on request.

### Marking

Meter marked.

MULTI-CONTACT.COM FLEX-SOL-EVO KEMA-KEUR EN50618 H1Z2Z2-K 4.0mm<sup>2</sup> 1500VDC PV WIRE E470857 (UL) 12AWG 105°C DRY 90°C WET 2000V SUN RES -40°C ROHS & LSZH VVMMDD

MULTI-CONTACT.COM FLEX-SOL-EVO KEMA-KEUR EN50618 H1Z2Z2-K 6.0mm<sup>2</sup> 1500VDC PV WIRE E470857 (UL) 10AWG 105°C DRY 90°C WET 2000V SUN RES -40°C ROHS & LSZH VVMMDD

MULTI-CONTACT.COM FLEX-SOL-EVO KEMA-KEUR EN50618 H1Z2Z2-K 10mm<sup>2</sup> 1500VDC PV WIRE E470857 (UL) 8AWG 105°C DRY 90°C WET 2000V SUN RES -40°C ROHS & LSZH VVMMDD

Part No.	Conductor cross section mm <sup>2</sup>	Approx. overall Ø mm	Strand design: Number x Ø (mm)	Conductor resistance/ 20°C Ω / km	Jacket colour	Reel weight (kg)	Reel Size
SC1C4TEN500	1 x 4	5.4	52 x Ø 0.30	5.09	Black	29	500m
SC1C6TEN500	1 x 6	6.0	78 x Ø 0.30	3.39	Black	39	500m
SC1C10TEN500	1 x 10	7.2	77 x Ø 0.40	1.95	Black	62	500m
SC1C4TEN1000	1 x 4	5.4	52 x Ø 0.30	5.09	Black	58	1000m
SC1C6TEN1000	1 x 6	6.0	78 x Ø 0.30	3.39	Black	78	1000m
SC1C10TEN1000	1 x 10	7.2	77 x Ø 0.40	1.95	Black	124	1000m

Larger conductor sizes also available.