

## 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.

### Inner insulation:

XLPE (Black, Red)

### Sheath insulation:

XLPE (Crosslinked Polyethylene)

### Nominal voltage:

U0 / U: 0,6 / 1 kV AC / max. 1.5 kV DC

### Test voltage according to

#### EN 50395-6:

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

### Rated current:

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

### Insulation resistance of the complete cable:

≥ 1000 MΩkm in accordance to EN 50395-8.2

### Ambient temperature:

-40 °C ...+90 °C

### Bending radius:

Dynamic: >4 × OD

### Resistance to... tested according to

#### IEC 60811-2-1

Acids and alkali

### Approvals:

T50400254 (tested according to 2PFG 1169/08.2007)

### Packaging:

Standard: 100m and 500m drums. Meter marked.

### Marking:

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

## DC SOLAR CABLE 0.9/1.5kV DC TUV 2PFG 1169 PV1-F

Part No.	Conductor cross section mm <sup>2</sup>	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
RC2C10T100	2 x 10.0	4.6	16.9 x 8.3	84 x Ø 0.40	1.95	Black / Red	Black	TUV	100m
RC2C10T500	2 x 10.0	4.6	16.9 x 8.3	84 x Ø 0.40	1.95	Black / Red	Black	TUV	500m

### Construction

Constructed using fine stranded tinned copper conductors insulated with a temperature-resistant, halogen-free cross-linked co-polymer compound and protected by an outer sheath of flame-retardant, abrasion and UV-resistant, halogen-free cross-linked co-polymer.

### Rated voltage

AC 1000V, DC 1500V (max)

### Temperature range

Ambient -40°C to +90°C

### Approvals

EN 50618 H1Z2Z2-K IEC 62930

### Minimum bending radius

Flexing: 5 x cable diameter

Fixed: 4 x cable diameter

### Marking

Meter marked



## RALOS H1Z2Z2-K EN50618 IEC 62930 2x4mm<sup>2</sup> 1500V DC ELECTRIC CABLE

Part No.	Conductor cross section mm <sup>2</sup>	Conductor Ø mm <sup>2</sup>	Outer Ø mm <sup>2</sup>	Conductor resistance 20°C Ω / km	Insulation color	Jacket color	Approval type	Drum size	Drum weight (approx.)
RC2C4EN100	2 x 4	2.4	5.4 x 11.1	5.09	White / Red	Black	EN 50618	100m	62 kg
RC2C6EN100	2 x 6	3.0	6.0 x 12.0	3.39	White / Red	Black	EN 50618	100m	81 kg
RC2C4EN500	2 x 4	2.4	5.4 x 11.1	5.09	White / Red	Black	EN 50618	500m	128 kg
RC2C6EN500	2 x 6	3.0	6.0 x 12.0	3.39	White / Red	Black	EN 50618	500m	165 kg