

DC Solar PV 1500V DC String Cable

RALOS

Electron Beam Cross-Linked

PV DC string cable

Description:

These cables are developed according to IEC 62930 and 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.

These 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.

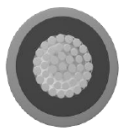
Construction:

Non-Halogen Cable for Photovoltaic Power System Class 5 TC Stranding Low Smoke Density.

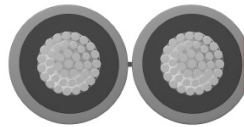
1. Conductor: Class 5, Tinned Copper
2. Insulation: 125°C XLPE, BLACK
3. Sheath: 125°C XLPE, Optional

Electrical Characteristics (at 20°C):

Voltage Rating	DC: 1500V	
Voltage Withstand	6500 VAC	
Spark Test	10000 VAC	
Elongation	Inner Layer	Outer Layer
	≥125%	≥125%
Strength	≥8Mpa	≥8Mpa
Ambient Temperature	-40°C - 90°C	
Max. Temperature at Conductor	120°C	
Bending Radius	Dynamic	Φ<8mm ≥4D
	Static	Φ≥8mm ≥6D
Flame Test	IEC60332-1-2 & EN 60332-1-2	
Water Proof	AD7 & IPX7	
Direct Burial	Tested acc. to UL854	



Single cable



Twin cable

Part No.	Conductor			Insulation	Sheath	Diameter	Drum Sizes (Pallet Qty)
	Spec	Structure	Resistance at 20°C	Thickness	Thickness		
	mm ²	N/mm	Ω/km	mm	mm	mm	
RC1C4-XXX RC2C4-XXX	1x4mm ² 2x4mm ²	52/0.3	5.09	0.7	0.8	5.4±0.2 5.4±0.2x10.9±0.4	100m (150), 500m (27), 1000m (16) 100m (80), 500m (16)
RC1C6-XXX RC2C6-XXX	1x6mm ² 2x6mm ²	78/0.3	3.39	0.7	0.8	6.1±0.25 6.1±0.25x12.3±0.5	100m (125), 500m(18), 1000m (8) 100m (64), 500m (12)
RC1C10-XXX RC2C10-XXX	1x10mm ² 2x10mm ²	77/0.4	1.95	0.7	0.8	7.1±0.25 7.1±0.25x14.3±0.5	500m (8) 100m (27), 500m (8)
RC1C16-XXX RC2C16-XXX	1x16mm ² 2x16mm ²	126/0.4	1.24	0.7	0.9	8.8±0.4 8.8±0.4x18.0±0.8	500m (8), 1000m (4) 100m (27)
RC1C25-XXX RC2C25-XXX	1x25mm ² 2x25mm ²	190/0.4	0.795	0.9	1.0	10.8±0.5 10.8±0.5x22.2±1.0	500m (8), 1000m (4) 100m (16)
RC1C35-XXX RC2C35-XXX	1x35mm ² 2x35mm ²	276/0.4	0.565	0.9	1.1	12.3±0.6 12.3±0.6x30.2±1.2	500m (4), 1000m (2) 100m (16)

Marking:

Single: RALOS H1Z2Z2-K 1x**mm² 62930 IEC 131 SOLAR CABLE  1500V DC HALOGEN FREE LOW SMOKE FOR DC USE ONLY R50612010 R50545480

Twin: (+) RALOS H1Z2Z2-K 2x**mm² 62930 IEC 131 SOLAR CABLE  1500V DC HALOGEN FREE LOW SMOKE FOR DC USE ONLY R50612010 R50545480
(-) RALOS H1Z2Z2-K 2x**mm² 62930 IEC 131 SOLAR CABLE  1500V DC HALOGEN FREE LOW SMOKE FOR DC USE ONLY R50612010 R50545480