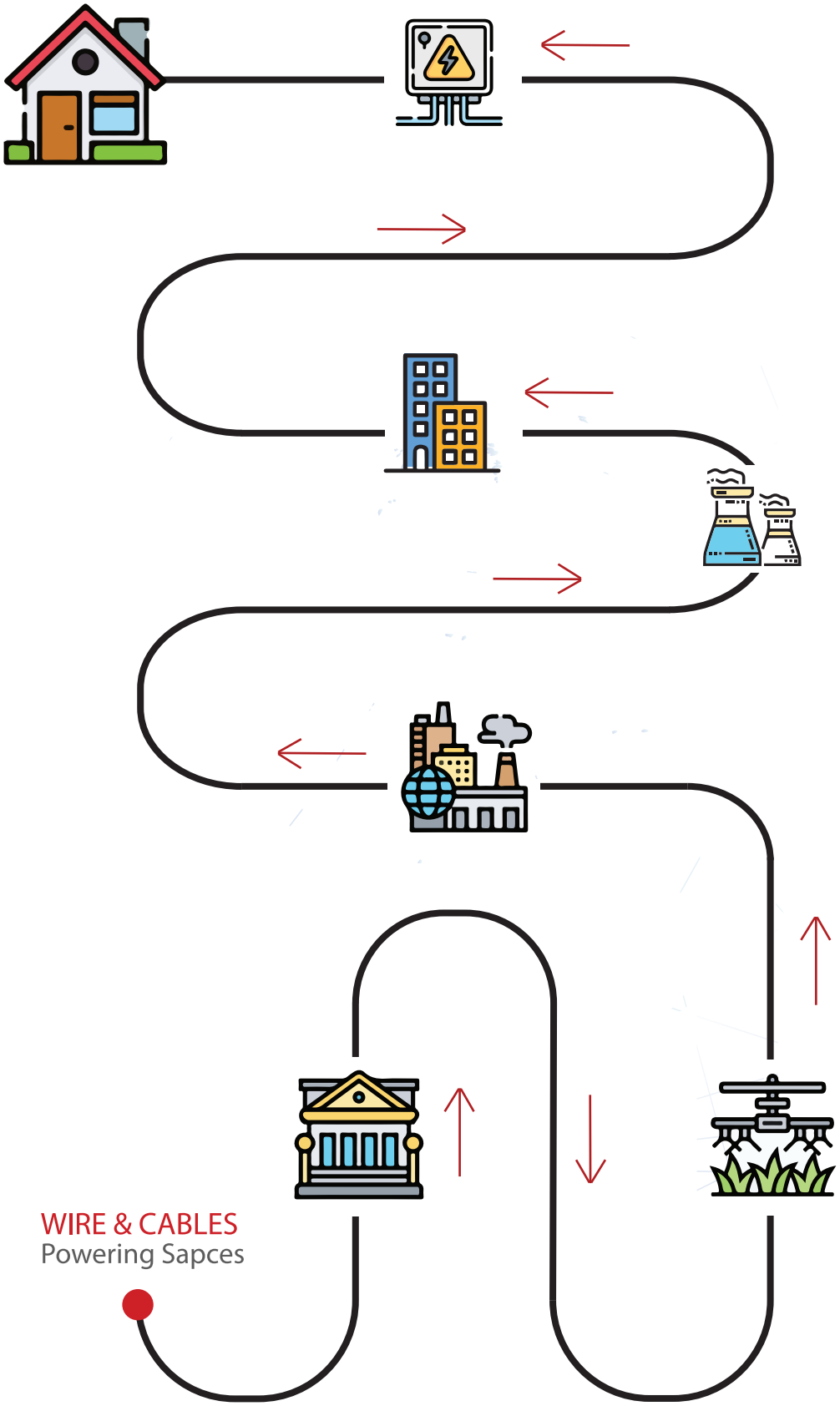
ROLSON®
WIRES & CABLES

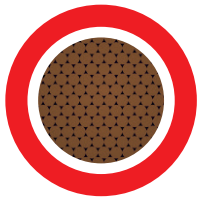
Product Catalogue



ROLSON®
WIRES & CABLES

IS : 694
CM/L - 7500269814

SOLAR CABLE





Electrical Characteristics

- **Rated Voltage :** 0.6/1 kV AC
- **Rated DC Voltage :** 1.5 kV
- **Maximum Permitted DC Voltage :** 1.8 kV (conductor/conductor, non earthen system, circuit not under load)
- **Maximum Permitted AC Voltage :** 1 KV
- **Working Voltage :** DC 1000 V
- **Spark Test :** 6000 V. ac (8400 Vdc)
- **Voltage Withstand :** 6500 V as per EN50395 for 5 min
- **Ampacity :** According to requirements for cables for PV systems

Technical Data

- Ambient Temperature : -40°C – +90°C
- Minimum Bending Radius : 5 x OD (fixed), 15 x OD (occasional flexing)
- Flame retardant according to IEC 60332-1-2
- Low smoke emission < 20% as per ASTM D-2843
- Halogen free according to EN 50267-2-1/-2, IEC 60754-2
- Maximum Temperature at Conductor : 120°C (20000h)
- Short Circuit Temperature : 200°C (at conductor max. 5sec)
- Thermal Endurance Test : According to EN 60216-2 (temperature index +120°C)
- High Temperature Pressure : Test according to EN 60811-3-1
- Excellent mechanical and electrical properties.
- UV resistance & OZONE resistance
- Flexibility & suitability for fast & easy installation

Cable Standard

EN 50618

Standard Packing

Coils 100, 200,300, 500, 1000m

Conductor : Flexible Electrolytic fine Tinned copper class-5 conductor according to IEC 60228

Insulation : XLPO (Crosslinked Halogen Free & Flame Retardant)

Sheath : XLPO (Crosslinked Halogen Free & Flame Retardant)

Colour

Red, Black and also available black color with red lining

Application

For Solar Panel, Solar Power Plant, Solar Pump Installation.

Size of Cable	Max. Conductor D.C. Resistance at 20°C	Insulation Thickness	Sheath Thickness	Outer Diameter	Current Rating Under Continues Operation 90°C And Ambient Temperature 40°C (in A)	Short Circuit Current Rating For 1 sec. Duration(in KA)
Sq.mm	ohm / (km)	(Nominal) mm	(Nominal) mm	mm	ohm / (km)	ohm / (km)
1.5	13.7	0.60	0.70	4.30	22	0.189
2.5	8.71	0.70	0.80	5.0	30	0.315
4.0	5.09	0.70	0.80	5.60	42	0.504
6.0	3.39	0.80	0.90	6.20	52	0.756
10.0	1.95	0.80	0.90	7.10	76	1.26
16.0	1.24	0.90	1.0	8.30	95	2.02

- Current Rating Conversion Factors For Different Ambient Temperature

Ambient Temperature °C	Up to 60	70	80	90
Conversion Factor	1	0.92	0.84	0.75

Note:The number of wires and diameter mentioned in the table are approximate and nominal; however they shall meet the requirements of conductor resistance as per standards.In view of continuous improvements in our design and process, the information, Dimensions and specifications given herein are subject to change without notice.

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WIRES & CABLES

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