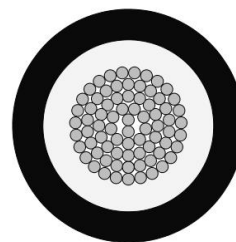


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SOLAR CABLES



H1Z2Z2-K



Areas of Use

Solar cables are specialized electrical conductors designed to transmit power generated by solar panels to inverters and other components within a photovoltaic system. The cables are designed to operate at a normal continuous maximum conductor temperature of 90°C. The permissible period of use at a maximum conductor temperature of 120 °C is limited to 20 000 h. They are suitable for applications indoor and/or outdoor, in industrial and agriculture areas.

Cable Construction

Conductor	Stranded Tinned Copper (Class 5)
Insulation	Halogen Free Cross-Linked Compound (XLHFFR)
Outer Sheath	Halogen Free Cross-Linked Compound (XLHFFR), RAL 9005 - Black
Reference Standard	TS EN 50618, TS IEC 62930

Technical Properties (at 20°C)

Operating Voltage	AC: 1.0/1.0 kV, DC: 1.5/1.5 kV
Test Voltage	AC: 6500 V, DC: 15 kV (5min.)
Temperature Range	Operating: -40°C...+90°C, Installation: -15°C...+60°C
Max. Permissible Operating Voltage	AC: 1.2 kV, DC: 1.8 kV
Flame Retardancy	IEC 60332-1-2
Smoke Density	IEC 61034-1/2
Corrosive Gases Measurement	IEC 60754-1/2
UV Resistance	EN 50289-4-17
Water Resistance	AD7
Min. Bending Radius	According to EN 50565-1

Cross Section

Nominal Cross Sectional Area of Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Maximum Overall Diameter (mm)	Maximum Conductor Resistance (Ohm/km)
1.5	0,7	0,8	5,4	13,7
2.5	0,7	0,8	5,9	8,21
4	0,7	0,8	6,6	5,09
6	0,7	0,8	7,4	3,39
10	0,7	0,8	8,3	1,95
16	0,7	0,9	9,8	1,24
25	0,9	1	12,2	0,795
35	0,9	1,1	14	0,565
50	1	1,2	16,3	0,393
70	1,1	1,2	18,7	0,277
95	1,1	1,3	20,8	0,210
120	1,2	1,3	23,0	0,164
150	1,4	1,4	25,7	0,132
185	1,6	1,6	28,7	0,108
240	1,7	1,7	32,3	0,0817

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Head Office

H.Rifat Paşa Mah. Yuzer Havuz Sk. Perpa A Blok
Kat:2 No:9/21-22 Sisli – İstanbul, Türkiye
T: +90 (212) 222 82 50 (Pbx) F: +90 (212) 222 82 53
info@2mkablo.com

Factory

Gaziosmanpaşa OSB Mah. 4. Cadde No:18/A
Cerkezköy – Tekirdağ, Türkiye
T: +90 (282) 758 35 00 (Pbx) F: +90 (282) 758 35 10
info@2mkablo.com



www.2mkablo.com