

TECHNICAL DATA

Nominal voltage	1.5kV DC and 1.0kV AC
Maximum permitted operating voltage	1,8kV DC (2,0 kV DC internal examination)
Test voltage	6.5kV AC / 15kV DC (5 minutes water bath, 20±5° C)
Strand construction	Tin-plated copper (electrolytic copper), fine wire acc. IEC 60228 Class 5
Short-circuit-temperature	250° C/5s
UV stability	Tensile strength and ultimate-elongation after 720 h (360 cycles) ≥ 70% of initial values; EN 50289-4-17acc. Method A; EN ISO 4892-1 (2000) and EN ISO 4892-2 (2006)
Insulation resistance	Insulation resistance in water bath, each 2h at +90° C and 2h at 20° C (Limit values acc. EN 50618 Table 1)
Resistance against acid and alkaline solution	168h at 23° C in N-Oxal acid and N-Sodium hydroxide (EN 60811-404); ammoniac-resistant
Behaviour in case of fire	Flame-retardant acc. EN 60332-1-2 Annex A, low smoke emission (EN 61034,-2)
Halogen-free	EN 50525-1, Annex B
Minimum bending radius	10x cable diameter (flexible) 4x cable diameter (fixed)
Range of temperature	Ambient temperature: -40° C to +90° C; Maximum conductor temperature: +120° C

Cross sectional area	Cond Class Type	No. of wires	Wire Diameter	Nominal Insulation Thickness	Nominal Sheath Thickness	Max. Conductor D.C. Resistance at 20 °C	Approx. Overall Diameter
sqmm	Tinned	No.	mm	mm	mm	ohm/(km)	mm
4	5	56	0.29	0.40	1.00	5.09	5.60
6	5	84	0.29	0.70	0.80	3.39	6.40
10	5	142	0.29	0.75	0.90	1.95	7.80
16	5	228	0.29	0.80	0.90	1.24	9.00
25	5	361	0.29	1.00	1.00	0.795	10.60
35	5	247	0.4	1.00	1.00	0.565	12.2
50	5	361	0.4	1.80	1.25	0.393	15.9
70	5	513	0.4	1.80	1.25	0.277	17.9
95	5	648	0.4	1.80	1.60	0.21	21.2
120	5	874	0.4	1.80	1.70	0.164	21.50

绿德科技 **LEADER** TECHNOLOGY

太阳能电缆
Solar cable

产品型号(Type Of Product)
TUV EN50618-2014 H1Z2Z2-K



Your benefits:

Certification: EN50618; NEW: IEC62930
 Nominal voltage 1,5kV DC and 1,0kV AC
 Maximum permitted operating voltage: 1,8kV DC (2,0 kV DC internal examination)
 Thanks to high-quality materials ready for direct burial (acc. UL 44 cl. 5.4 & UL2566 cl. 6.4.4.2)
 Electron-beam cross-linked special compound; XLPO/XLPO
 CPR-classification of burning behavior acc. to 305/2011/EU: B2ca, s1a, d0, a1
 Halogen free, flame retardant, UV and ozone resistant
 To aid installation: We ship this cable with meter-marking.
 Colour coding to separate polarities
 Available in 100m coils, 500 m drums or in another kind upon request

LEADER 1500V/2000V

LEADER solar cable is TÜV (EN50618) and UL (UL 4703 PV Wire) certified and thus covers the whole bandwidth required for global distribution. Ideal in combination with preassembled cables for manufacturers of junction boxes and modul