

HIKRA®

solar cables
part of HIS CONNECT™

HIKRA® SOL B2

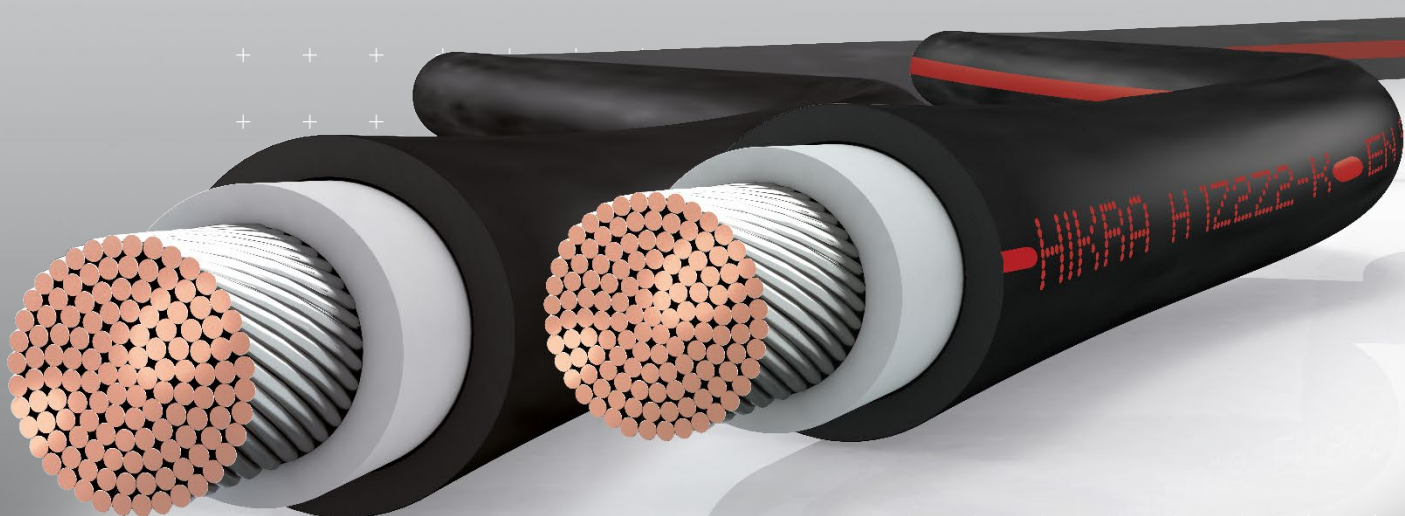
EN50618 (H1Z2Z2-K)

IEC62930

DATA SHEET

IN FOCUS IS THE PLANT REVENUE IN OPERATION OUR SOLAR CABLES

- UV-stable and high resistance to external influences
- B2ca s1 d0 a1 certified according to CPR
- Improved burning behavior acc. EN 50575:2014
- 25 years expected service life
- Continuous meter marking



HIKRA® SOL B2

TECHNICAL DATA



Type Approved
Safety
Regular Production
Surveillance



www.tuv.com
ID 69267215

Construction	
Strand construction	Tin-plated copper strand (electrolytic copper), fine wire acc. IEC 60228 Class 5
Insulation	Electron-beam cross-linked Polyolefin; Shore hardness D 41
Outer Sheath	Electron-beam cross-linked special compound XLPO; Shore hardness D 41
Colour	Sheath: black, red; Insulation: black, red
Marking	HIKRA® SOL B2 H1Z2Z2-K 1x ..mm ² CPR B2 DOP 7071 IEC 62930 R 50408873 CE with meter marking
Standards	EN50618 (H1Z2Z2-K) TÜV R 50363076; IEC62930 131 TÜV R 50408873; EN50575:2014+A1:2016 TÜV MC 69267215

Technical characteristics	
Nominal voltage	1,5kV DC and 1,0kV AC
Maximum permitted operating voltage:	1,8kV DC (2,0 kV DC internal examination)
Voltage test on complete cable	6,5kV AC / 15kV DC (5 minutes water bath, 20±5 °C)
Current carrying capacity	See document „Current rating – HIKRA® Solar Cable“ October 2020
Short-circuit-temperature	250 ° C/5s

Material properties	
UV stability	Tensile strength and ultimate-elongation after 720 h (360 cycles) ≥ 70% of initial values; EN 50289-4-17 acc. Method A; EN ISO 4892-1 (2000) and EN ISO 4892-2 (2006)
Ozone resistance	72h, relative humidity 55±5 %, Temperature 40±2 °C (EN 50396 Method B; Ozone concentration (200±50)x10 ⁻⁶)
Insulation resistance	Insulation resistance in water bath, each 2h at +90 °C and 2h at 20 °C (Limit values acc. EN 50618 Table 1)
Dynamic penetration test	Spring-steel-needle through insulation or sheath (EN50618 Annex D)
Sheath resistance against acid and alkaline	168h at 23 °C in N-Oxal acid and N-Sodium hydroxide (EN 60811-404); ammoniac-resistant
Behavior in case of fire	Flame-retardant acc. EN 60332-1-2 Annex A, low smoke emission (EN 61034,-2)
CPR-Performance	B2ca s1, d0, a1; burning behavior acc. EN 50575:2014
Halogen-free	EN 50525-1, Annex B
Cold impact test	EN 60811-506, EN 50618 Annex C.1 at -40 °C
Cold elongation test	Max. 30 % elongation at -40±2 °C, 16h (EN 60811-505)
Damp heat test	Duration 1000h at 90 °C and min. 85% relative humidity (EN 60068-2-78)
Minimum bending radius flexible / fixed	10x cable diameter 4x cable diameter

Temperature Range	
Temperature	Ambient temperature: -40 °C to +90 °C; Maximum conductor temperature: +120 °C
Maximum storage temperature	+40 °C
Minimum temperature for installation	-25 °C

Order No.	Cross-section mm ²	Construction n x max. - Ø (mm)	Max. resistance (Ω/km)	External diameter (+/- 0,2 mm)	Copper index kg/km	Approx. Weight kg/km
750249	1 x 4.0	52 x 0.3	5.09	5.4	38.4	61.0
750251	1 x 6.0	78 x 0.3	3.39	6.0	57.6	81.0
750253*	1 x 10.0	77 x 0.4	1.95	7.2	96.0	130.0
750255*	1 x 16.0	126 x 0.4	1.24	8.7	153.6	199.0

*EN 50575:2014+A1:2016 TÜV pending

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