HIKRA PERF

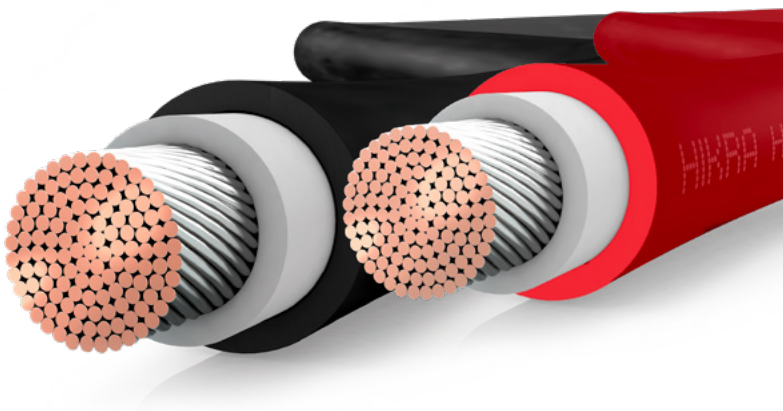
■ Solar Cable

Robust, long-lasting solar cables for reliable use in photovoltaic installations

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Your Benefits

- Tested by TÜV Rheinland in accordance with EN 50618
- Designed for a service life of up to 25 years in PV installations, subject to specified operating conditions
- Conductor temperature of up to 120 °C for a total of 20,000 hours under specified operating conditions
- Resistant to UV radiation, ozone and damp heat under the stated test conditions
- Tinned copper conductor for enhanced corrosion resistance



TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
www.tuv.com
ID 1419041513

Technical Data

Construction

Strand construction	Fine-stranded, tinned copper conductor (Class 5 to IEC 60228)
Insulation	Halogen-free cross-linked compound
Outer sheath	Halogen-free cross-linked compound
Colour	Outer sheath: black or red; insulation: white
Cable marking	HIKRA PERF H1Z2Z2-K 1 x 6.0 mm² EN 50618 R 60190021 0001 1,500V DC “metre marking“
Standard and cable type	EN 50618 (H1Z2Z2-K). Test evidence: TÜV Rheinland test report No. 27129957 001 (EN 50618:2014)

Technical Data

Technical Characteristics

Rated voltage	1,500V DC/1,000V AC
Maximum permissible operating voltage	1.5 kV DC (Long-term resistance of insulation to DC/1.8 kV DC)
Voltage test	6.5 kV AC or 15 kV DC; no breakdown
Minimum bending radius	5 × cable diameter
Short-circuit temperature	250 °C/5 s
Operating temperature	-40 °C to +90 °C
Maximum conductor temperature	Up to +120 °C for a cumulative period of 20,000 hours under specified conditions
Minimum installation temperature	-25 °C

Material Properties

UV stability	UV weathering resistance verified after 720 h exposure according to EN 50618 Annex E
Ozone resistance	Method A: 24 h/Method B: 72 h, no visible cracks
Insulation resistance	20 °C: 500 MΩ·km (6 mm²), 90 °C: 0,5 MΩ·km (6 mm²)
Long-term resistance of insulation to DC/1.8 kV DC	EN 50618, Table 2 EN 50395 clause 9: Cable immersed for 240 h in water containing 1 % NaCl at 85 ± 5 °C; applied DC voltage: 1.8 kV
Direct-burial suitability	Impact test resistance of single conductor type USE and USE-2 cables (tested acc. to UL854) Additional protection against rodents may be provided by suitable protective conduits or cables with a metallic braid
Dynamic penetration resistance	Tested to EN 50618, Annex D; exceeds the specified requirements
Resistance to acids and alkalis	EN 60811-404, 168 h exposure, passed
Flame retardancy	Tested in accordance with EN 60332-1-2
Smoke density	Tested to EN 61034-2; measured result
CPR reaction-to-fire classification	Dca-s2, d2, a
Halogen-free	EN 50525-1 Annex B, EN 60754-1, EN 60754-2
Cold impact resistance	EN 60811-506, -40 °C, no visible cracks
Cold bend resistance	EN 60811-504, -40 °C, passed
Damp-heat test	1,000 hours at 90 °C and ≥ 85% relative humidity – passed
Thermal endurance	20,000 h at 120 °C

Article no. black/red	Cross-section	Insulation Thickness (mm)	Outer sheath Thickness (mm)	Max. conductor resistance at 20 °C (Ω/km)	Diameter (mm)	Current-carrying capacity in free air (A)	Copper index (kg/km)	Approx. cable weight (kg/km)
777340/777341	1 × 4 mm²	0.7	0.8	5.09	5.6	55	32.1	62
777342/777343	1 × 6 mm²	0.7	0.8	3.39	6.1	70	47.3	82
777344/777345	1 × 10 mm²	0.7	0.8	1.95	7.1	98	82.5	125

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