

H1Z2Z2-K Solar PV Cable (TÜV EN 50618, 1500V DC)

Farwalk's H1Z2Z2-K Solar Cables are the ultra-resilient lifeblood of modern photovoltaic systems. Strictly manufactured to the European EN 50618 standard and TÜV certified, these cables are engineered to endure 25+ years of intense solar radiation, extreme temperature fluctuations, and harsh outdoor exposure while maintaining peak 1500V DC power delivery.



Applications

The definitive choice for connecting solar panels (PV modules) to inverters and string combiner boxes in residential, commercial, and utility-scale solar farms. Specifically designed for fixed and mobile installations in rooftop and ground-mount PV systems where durability against UV and chemicals is paramount.

Description

Manufactured in accordance with EN 50618. The conductor is high-purity tinned annealed copper (Class 5), ensuring superior conductivity and long-term corrosion resistance. It features a dual-layer insulation and jacket made of cross-linked halogen-free polyolefin (XLPO). This thermoset construction ensures the cable will not melt or crack under extreme thermal load.

Specifications

- **Voltage Rating: 1.5 kV DC (1.0 kV AC)**
- **Conductor: Tinned Annealed Copper (IEC 60228 Class 5)**
- **Insulation/Jacket: XLPO (LSZH, UV & Ozone Resistant)**
- **Design Life: 25+ Years (per EN 50618)**
- **Temp. Range: -40°C to +90°C (Ambient), +120°C (Peak)**

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Complete Technical Tables

H1Z2Z2-K 1500V DC Solar Cable

Sectional Area (mm ²)	Cond. Construction (n/mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Current Rating @ 60° C (Amps)	Max. DC Resistance @ 20° C (Ω/km)
H1Z2Z2-K Tinned Copper Solar Cable - 1500V DC					
2.5	50 / 0.25	5.0	45	41	8.21
4.0	56 / 0.30	5.6	65	55	5.09
6.0	84 / 0.30	6.2	85	70	3.39
10.0	80 / 0.40	7.6	135	98	1.95
16.0	126 / 0.40	9.0	205	132	1.24
25.0	196 / 0.40	11.2	310	176	0.79
35.0	276 / 0.40	13.0	415	218	0.56