

SOLARPLAST®

H1Z2Z2-K / TWIN H1Z2Z2-K

Cables for photovoltaic solar panels

- Double-insulation
- Excellent UV resistance
- Very good abrasion resistance
- Excellent flexibility
- Good resistance to ozone cracking
- LSZH
- 1,0/1,0 KV A.C. 1,5/1,5KV D.C.
- Class II
- From -40 °C to +90 °C and peaks +120 °C
- Recyclable, RoHS-compliant
- Low-smoke
- Zero-halogen-LSZH
- Service Entrance Cable per UL 854 (H1Z2Z2-K)
- Permanent immersion AD8 (H1Z2Z2-K)



Lloyd's
Register



Petroleum reserves won't last forever !

This is hard-and-fast reality, and the leading EU nations are mobilized on efforts to cut the share of electricity produced from fossil fuels.

Electricity produced from renewable sources has been gaining ground across Europe for a number of years now, with one source massively exploited-sunlight

From panel through to AC/DC inverters and back to the battery packs, **OMERIN offers a range of cables purpose-engineered for solar PV applications.**

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Applications

The **solarplast**® range has been engineered for PV panel-to-panel and array-to-hardware cabling. Ideal for connecting solar modules to charge controller and charge controller to battery pack, these flexible cables are popular with manufacturers and installers. Our single-conductor or twin-conductor **solarplast**® cables offer cabling solutions that seamlessly adapt to the PV panel environment and the connector technology solution needed. The cable dimensions have been engineered to fit all the market-leading connectors. The build materials employed led the **solarplast**® range extremely high UV resistance. These extreme-performance cables comfortably handle any weather conditions thrown at them (rain, wind, snow, frost, hail, and more...).

Cross-section (mm ²)	Approx. overall diameter (mm)		Approx. linear weight (kg/km)
	min	max	
solarplast® H1Z2Z2-K			
2.5	4.3	5.9	44
4	4.7	6.6	60
6	5.2	7.4	80
10	6.5	8.8	128
16	8.1	10.1	185
25	9.9	12.5	305
35	10.8	14.0	397
50	13.0	16.3	551
70	15.0	18.7	752
95	16.4	20.8	962



Cross-section (Nb x mm ²)	Approx. overall diameter (mm)	Approx. linear weight (kg/km)
2 x 2.5	5.5 x 11.2	115
2 x 4	5.6 x 11.4	140
2 x 6	6 x 12.2	185



Cables for photovoltaic solar panels

- Certified by the Lloyd's Register to standard EN 50618
- Good resistance to environmental stressors (UV, ozone, hydrolysis)
- Emits very little fumes when exposed to flame
- Zero-halogen and RoHS-compliant
- Duty service life 25 years according to IEC 60216
- Servive Entrance Cable per UL 854 sections 23 and 24 (H1Z2Z2-K)
- Permanent immersion AD8 per NF C 15-100 (H1Z2Z2-K)



Product brief

Construction

Core

- Class-5 flexible tinned copper to IEC 60228

Inner insulation

- Cross-linked LSZH compound

Outer sheath

- Cross-linked LSZH compound
- Colour H1Z2Z2-K : Black

Packaging

- Reels, drums, coils..

Markings

- OMERIN SOLARPLAST H1Z2Z2-K 1x cross-section mm²
- Year/Month - 1.0/1.0 kV A.C

Reference standards

- Certified to standard EN 50618
- Smoke density test-classed to standard IEC 61034-2 as (low smoke)
- Gases evolved and corrosive fume generation test-classed to standards IEC 60754-1 and IEC 60754-2 as (zero-halogen)
- Flame retardant according to IEC 60332-1-2
- UV and ozone resistances to EN 50618
- Shock resistance according to standard (Impact-Resistance Test)
- Crush resistance according to standard UL 854.24 (Crushing-Resistance Tests)

RoHS Directive

- Certificate of compliance to EU Directive 2002/95/EC

Thermal and mechanical performance specs

- Ambient temperature range -40 to +90°C
- Max. conductor temperature +120°C
- Short-circuit temperature rating +250°C
- Thermal endurance to 20,000-h aging at at 120°C to IEC 60216
- Bending radius to 6 x cable diameter (mm)

Electrical performance specs

- Conductor resistance at 20°C according to IEC60228
- Rated voltage 1.0 / 1.0 kV A.C. - 1.5 / 1.5 kV D.C.
- Peak voltage 1.2 kV A.C. - 1.8 kV D.C.
- Test voltage 6.5 kV A.C. - 15 kV D.C.
- Maximum current rating to EN 50618

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