

TÜV EN50618 H1Z2Z2-K IEC 62930 - 4.0mm² Photovoltaic Cable



APPLICATION

TÜV EN50618 and IEC 62930 certified, APEX SOLAR's DC solar cable, is specifically designed to connect photovoltaic panels. Engineered to withstand harsh outdoor environments. The H1Z2Z2-K cable features superior UV resistance, ozone resistance, and water resistance, ensuring a reliable and long-lasting connection within your solar power system.

CHARACTERISTICS

Voltage Rating: AC 1.0Kv / 1.5Kv DC

Maximum Voltage : 1800V / 1.8KV DC

Test Voltage : Test Voltage: 6,5KV AC / 15KV DC
(5 minutes water bath, 20±5°C)

Bending radius

- Fixed setting : >4 x Ø
- Moves on occasion : >5 x Ø

Temperature Range

- Ambient temperature : -40°C ~+90°C
- Max. conductor temperature : 120°C
- Maximum short circuit temperature : 250°C

CONSTRUCTION

Conductor : Fine wire, Stranded tin-plated copper according to IEC 60228, class 5

Insulation : XLPE, flame retardant, halogen free, E-Beam cross-linked compounds

Sheath : XLPE, E-Beam cross-linked compound, flame retardant, halogen free, UV and ozone resistant

Sheath Color : Black/Red

Marking: EN50618 H1Z2Z2-K 62930 IEC 131
1×4.0mm² HALOGEN FREE LOW SMOKE DC 1.5KV
R 50334055 with meter marking

APPROVALS

- TÜV EN50618 File No.: R 50334055
- IEC62930 File No.: R 50444396
- RoHS & Reach conform

MATERIAL PROPERTIES

- **Flame-retardant:** EN 60332-1-2
- **Smoke Emission:** EN 61034-2
- **Halogen-free:** EN 50525-1



Resistance against UV, Ozone, Fluids, Oil, Salt & General Weathering.



Suitable for direct burial



Applicable to all Common Connectors



Water Resistance : AD8



25 years lifetime expectancy.

PACKAGING

Coil: 100m, 250m, 300m

Drum: 500m, 1000m, 2000m, 3000m
Other packaging available on request on request

Apex Solar Energy Technology GmbH

SPECIFICATION

PRODUCT NAME	H1Z2Z2-K	SIZE	1x4.0mm ²
SECTIONAL DRAWING			

STANDARD BASIS

CONDUCTOR	MATERIAL	TINNED PLATED COPPER
	STRUCTURE(N/MM)	56/0.285 ± 0.01
	TWISTED OUTER DIAMETER (MM)	2.40
INSULATION	MATERIAL	XLPO
	FINISHED OUTER DIAMETER (MM)	3.95±0.15
	AVERAGE THICKNESS (MM)	≥0.7
	MINIMUM THICKNESS (MM)	≥0.51
	COLOR	White
SHEATH	MATERIAL	XLPO
	FINISHED OUTER DIAMETER (MM)	5.55±0.2
	AVERAGE THICKNESS(MM)	≥0.8
	MINIMUM THICKNESS (MM)	≥0.58
	COLOR	White
ELECTRICAL PERFORMANCE	RATED VOLTAGE(V)	AC1.0/1.0KV DC1.5KV
	RATED TEMPERATURE(°C)	-40°C - 90°C
	CONDUCTOR RESISTANCE (Ω/KM, 20°C)	≤5.09
	INSULATION RESISTANCE (MΩ.KM, 20°C)	≥709
	VOITAGE WITH STAND TEST	AC6.5KV OR DC15KV,5MIN
	SPARK MACHINE VOLTAGE (KV)	7
	SHORT-CIRCUIT TEMPERATURE	≤200°C/5s
PHYSICAL PROPERTY OF INSULATION	MINIMUM TENSILE STRENGTH (N/MM2)	≥8.0
	MINIMUM ELONGATION AT BREAK (%)	≥125
	FLAME TEST	VERTICAL BURNING EN60332-1-2
	THEORETICAL SERVICE LIFE (YEARS)	25
	ENVIRON MENT PROECTION	ROHS2.0
Packing specification	Packing quantity: 100m, 200m, 300m, 400m, 500m, 1000m, 2000m, 4000m	