

Photovoltaic solar H1Z2Z2-K Cable



Kanbery Cables: PV-TYPE 2

APPLICATION

Updated harmonised (H1Z2Z2-K) European standard solar cable intended for the interconnection within photovoltaic systems such as solar panel arrays. Suitable for fixed installations, internal and external, within conduit or systems. Impact tested - Suitable for direct burial. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment. Water resistant to AD8.

CHARACTERISTICS

Voltage Rating Uo/U
AC: 1000/ 1000V
DC: 1500/ 1500V

Maximum Voltage (Umax)
1800V

Test Voltage
6.5kV AC

Temperature Rating
Fixed: -40°C to +90°C

Minimum Bending Radius
5 x overall diameter

Maximum Conductor Temperature
+ 120°C (for 20000h)

CONSTRUCTION

Conductor
Class 5 flexible tinned copper conductor

Insulation
Halogen-free cross-linked compound

Sheath
UV- Stabilizer Heat Resistance temperature (OR) Compound

Sheath Colour
● Black ● RED

CABLE ACCREDITATION



Cables are designed and confirmed by body like BASEC and ISI

STANDARDS

EN 50525-2-31

Flame Retardant according to IEC/EN 60332-1-2

THE CABLE LAB

AN ISO/IEC 17025 AND IEC/IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable

operations at: www.kanberycable.com/company/about-us/esg-sustainability



SCIENCE
BASED
TARGETS



REGULATORY COMPLIANCE

This cable is compliant with European regulation EN 50575 and Bureau of Indian Standards, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab as meeting the requirements of the BSI RoHS Trusted Kitemark™.



DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	TENSILE STRENGTH IN OPERATION N
1	1.5	4.6	22
1	2.5	5.0	37
1	4	5.6	60
1	6	6.1	90
1	10	7.1	150
1	16	8.5	240
1	25	10.4	375
1	35	11.5	525
1	50	13.7	750
1	70	15.8	1050
1	95	17.3	1350
1	120	19.1	1800
1	150	21.4	2250
1	185	24.9	2775
1	240	27.3	3600

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 90°C ohms/km	CURRENT CARRYING CAPACITY Amps		
			Single Cable In Air	Single Cable On Surface	Two Cables Adjacent On Surface
1.5	13.70	17.468	30	29	24
2.5	8.21	10.468	41	39	33
4	5.09	6.490	55	52	44
6	3.39	4.322	70	67	57
10	1.95	2.486	98	93	79
16	1.24	1.581	132	125	107
25	0.795	1.013	176	167	142
35	0.565	0.720	218	207	176
50	0.393	0.501	276	262	221
70	0.277	0.353	347	330	278
95	0.21	0.267	416	395	333
120	0.164	0.209	488	464	390
150	0.132	0.168	566	538	453
185	0.108	0.137	644	612	515
240	0.0817	0.104	775	736	620

DERATING FACTORS

AIR TEMPERATURE	UP TO 60°C	70°C	80°C	90°C	100°C	110°C
DE-RATING FACTOR	1.00	0.91	0.82	0.71	0.58	0.41

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.