H1Z2Z2-K

TUV Single Core Solar Cable EN50618/IEC62930

Suitable for the DC side of the photovoltaic system, the DC voltage between the conductor and the ground is 1.5kV, suitable for use with secondary equipment, low smoke and halogen-free, flexible cable with cross-linked insulation and sheathing.

TECHNICAL INDICATORS

Rated voltage: U0/U 1.0/1.0KV(AC) 1500V(DC)
Test voltage: AC6.5KV/5min (20℃±0.5)
Or DC15KV/5min (20℃±0.5) without breakdown
Ambient temperature: -40°C~+90°C
Conductor maximum temperature: 120°C
Expected service life: 25 years
Bending radius: ⩾4D

STRUCTURE

Fire resistance: EN 60332-1-2
Weather/UV Resistant: EN 50289-4-17/ENISO4892
Halogen determination: EN 50525
Salt mist emission: IEC61034
Compliance with certification: ROHS TUV
Implementation standards: EN 50218:2014/ IEC 60930:2017

CHARACTERISTICS COMPLIANCE

Conductor: Type 5 tinned copper flexible conductor in EN 50618
Insulation: 125℃ irradiation crosslinking low smoke halogen free flame retardant polyolefin
Sheath: 125℃ irradiation crosslinking low smoke halogen free flame retardant polyolefin
Color: Red or black



UV and ozone resistant hydrolysis resistant

High temperature resistance service life of more than 25 years

Halogen-free and low-smoke material, in line with environmental protection requirements

Compatible with all common connectors

DC SOLAR PV CABLE

TÜVRheinland RoHS



Structural dimensions and parameters

Model	Specification mm²	Insulation nominal thickness mm	Sheath nominal thickness mm	Approximate outer diameter of finished product mm	Maximum DC resistance of conductor at 20°C Ω/km	Minimum insulation resistance at 90°C m Ω/km
H1Z2Z2-K	1.5	0.7	0.8	4.6	13.7	0.86
H1Z2Z2-K	2.5	0.7	0.8	5.0	8.21	0.69
H1Z2Z2-K	4.0	0.7	0.8	5.55	5.09	0.58
H1Z2Z2-K	6.0	0.7	0.8	6.15	3.39	0.50
H1Z2Z2-K	10	0.7	0.8	7.4	1.95	0.42
H1Z2Z2-K	16	0.7	0.9	8.52	1.24	0.34
H1Z2Z2-K	25	0.9	1.0	10.6	0.795	0.34
H1Z2Z2-K	35	0.9	1.1	12.5	0.565	0.29
H1Z2Z2-K	50	1.0	1.2	14.2	0.393	0.27
H1Z2Z2-K	2X1.5	0.7	0.8	4.6X9.7	13.7	0.86
H1Z2Z2-K	2X2.5	0.7	0.8	5.0X10.5	8.21	0.69
H1Z2Z2-K	2X4.0	0.7	0.8	5.55X11.6	5.09	0.58
H1Z2Z2-K	2X6.0	0.7	0.8	6.15X12.8	3.39	0.50
H1Z2Z2-K	2X10	0.7	0.8	7.4X15.3	1.95	0.42

Reference table for quick selection of carrying capacity

Cross-sectional area mm²	Recommended value of carrying ampacity (A)	Carrying ampacity conversion factor for different ambient temperatures	
Copper conductor	Laying in the air	Ambient temperature °C	Conversion factor
1.5	30	10	1.15
2.5	41	20	1.08
4	55	30	1.0
6	70	40	0.91
10	98	50	0.82
16	132	60	0.71
25	176	70	0.58
35	218	80	0.41
50	276		
2X1.5	24		
2X2.5	33		
2X4.0	44		
2X 6.0	57		
2X 10	79		

Note: Ambient temperature 30°C; conductor maximum temperature 90°C