

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°C±0.5)
 Or DC15KV/5min (20°C±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°C irradiation crosslinking low smoke halogen free flame retardant polyolefin
 Sheath: 125°C 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



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	
		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