

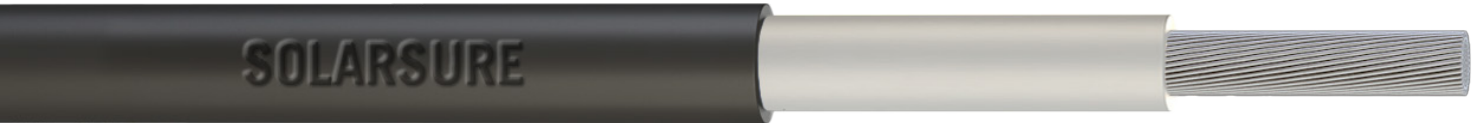


# SolarSure<sup>®</sup>



## H1Z2Z2-K

Halogen free cable for photovoltaic equipment



### Structure

**Type:** EN50618:2014 H1Z2Z2-K 1x\*\*mm<sup>2</sup> DC 1500V

**Product Standard:** EN50618:2014

Cross Section (mm <sup>2</sup> )	Construction (No./mm±0.008) Tinned copper wire	DIA. (mm)	Insulation Material	Insulation Thickness (mm)		Insulation Od. (mm±0.15)	Cover Material	Jacket Thickness (mm)		Cable Od. (mm±0.2)
				Avg.	Min.			Avg.	Min.	
1x2.5	49/0.25	2.02	Cross Linked Halogen Free compound	0.7	0.53	3.60	Cross Linked Halogen Free compound	0.8	0.58	5.4
1x4	56/0.283	2.46		0.7	0.53	3.90		0.8	0.58	5.6
1x6	84/0.283	3.02		0.7	0.53	4.60		0.8	0.58	6.3
1x10	146/0.283	4.00	Black or White	0.7	0.53	5.80	Black	0.8	0.58	7.8
1x16	228/0.283	5.00		0.7	0.53	7.00		0.9	0.67	9.3

The class of the conductor shall be Class 5 in accordance with IEC 60228.

### Electrical Performance

Cross Section (mm <sup>2</sup> )	1x2.5	1x4	1x6	1x10	1x16
Conductor Max. Resistance AT 20°C (Ω/km)	7.98	5.09	3.39	1.95	1.24
Insulation Min. Resistance AT 20°C (MΩ.km)	690	579	499	419	339
Insulation Min. Resistance AT 90°C (MΩ.km)	0.69	0.579	0.499	0.419	0.339

The British Cable Company You Can Trust



Sales Office: Millfield Industrial Estate, Arksey Lane, Bentley, Doncaster, South Yorkshire, DN5 0SJ  
Tel: 01302 821700 Email: sales@doncastercables.com



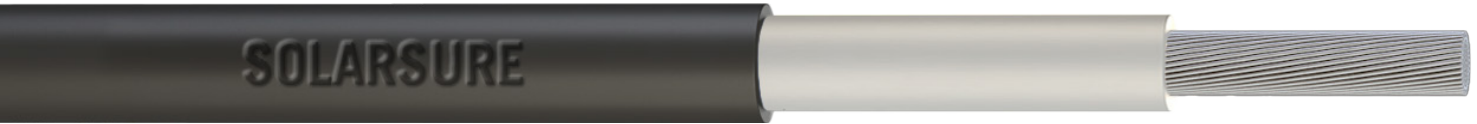


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### Current Rating Ambient Temperature - AMPS

Cross Section (mm <sup>2</sup> )	Single Cable Free in Air	Single Cable Free on Surface	Two Loaded Cables Touching, on a Surface
1x4	55	52	44
1x6	70	67	57
1x10	98	93	79
1x16	132	125	107

Ambient Temperature	60°C
Max. Conductor Temperature	120°C

### Electrical Performance

Test Items		Test Standard	Test Method
Elongation of insulation/sheath	Test are before ageing	125%↑	EN 60811-1-1
Tensile strength of insulation/sheath		8.0Mp↑	
Elongation of insulation/sheath	Test are after ageing	>70% Tensil Strength Before Ageing	EN 60811-1-2
Tensile strength of insulation/sheath		>70% Tensil Strength Before Ageing	
Shrinkage resistant		≤2%	EN 60811-503

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Acid and alkali resistant	EN 60811-2-1
Ozone resistant	EN50396-8.1.3
UV resistant	EN 50289-4-17
Dynamic penetrate force	1
(40°C, 5h) Impact at low temperature	EN 60811-1-4
Fire performance	IEC60332-1-2
Cland Br Content	EN 50618
Thermal endurance Test	EN60216-1, EN60216-2, T1120

## Application

Application	Internal wiring of solar panel and photovoltaic applications
Approval	EN 50618
Rating Voltage	DC1500V
Test Voltage	AC 6.5KV, 50Hz 5min
DC Voltage Test of Insulation	1800V, 240h (85°C, 3%NaCl) No break
Working Temperature	-40~90°C
Short Circuit Temperature	250°C 5S
Bending Radius	6xD
Life Period	≥25 years

