

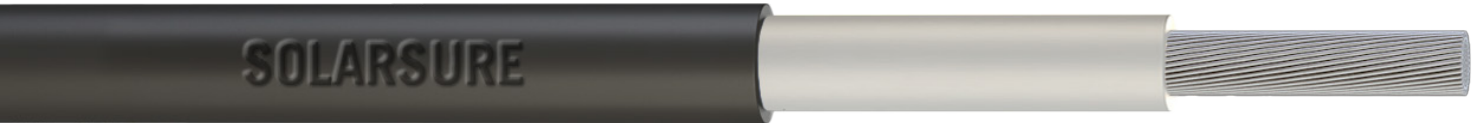


SolarSure®



H1Z2Z2-K

Halogen free cable for photovoltaic equipment



Structure

Type: EN50618:2014 H1Z2Z2-K 1x**mm² DC 1500V

Product Standard: EN50618:2014

Cross Section (mm ²)	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 ²)	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 ²)	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

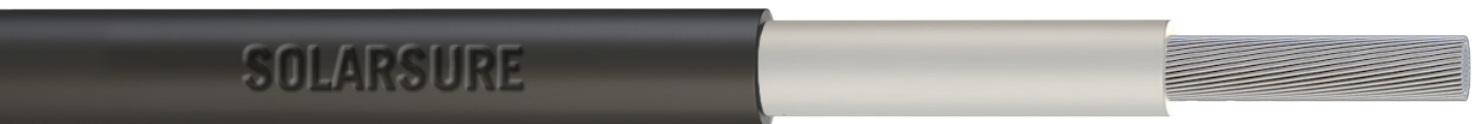
Test Items		Test Standard	Test Method
Elongation of insulation/sheath	Test are before ageing	125%↑	EN 60811-1-1
Tensile strength of insulation/sheath		8.0Mp↑	
Elongation of insulation/sheath	Test are after ageing	>70% Tensil Strength Before Ageing	EN 60811-1-2
Tensile strength of insulation/sheath		>70% 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
Cl and Br Content	EN 50618
Thermal endurance Test	EN60216-1, EN60216-2, T1120

Application

Application	Connection of Photovoltaic Systems such as solar panel arrays, Suitable for internal and external installations
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

