



RoHS
Compliant

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, but not direct burial applications. Our solar cable is ozone-resistant according to BS EN 50396, UV resistant according to HD 605/A1, and is tested for durability according to EN 60216. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

Cable Standards

EN 50618:2014, TÜV 2 PfG 1169/08.2007, IEC 60228/VDE 0295, HD 605/A1, BS EN 60811-401, BS EN 60811-404, BS EN 60811-501, BS EN 60811-503-508, BS EN 53505, ASTM D624, BS EN 50289-3-7, HD516, BS EN 50396, BS EN 60068-2-78, IEC/BS EN 60332-1-2, IEC/BS EN 60754-1, IEC/BS EN 61034-1, IEC/BS EN 60754-2, IEC/BS EN 60754-1, IEC/BS EN 60754-2, BS EN 50395 Clause 9



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at our supplier's laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

Characteristics

Voltage Rating (Uo/U)	: AC : 600/1000V DC : 900/1800V
Temperature Rating	: Fixed : -40°C to +90°C
Minimum Bending Radius	: Fixed : 4 × overall diameter Flexed : 5 × overall diameter
Maximum Voltage (Umax)	: 1.8kV DC (conductor/conductor, non earthed system, circuit not under load)
Maximum Conductor Temperature	: +120°C (for 20,000h)
Test Voltage	: 6.5kV AC according to BS EN 50395
Sheath Colour	: Black

Construction

Conductor	: Class 5 flexible tinned copper conductor
Insulation	: Halogen-free cross-linked compound
Sheath	: Halogen-free cross-linked, flame retardant compound

Dimensions

Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	Nominal Overall Diameter mm	Nominal Weight Kg/Km	Tensile Strength In Operation N
PP000513	1	4	5.4	56	60
PP000514		6	5.9	73	90

Newark.com/multicomp-pro
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Element14.com/multicomp-pro

Conductors

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Maximum Resistance of Conductor at 20°C
	Metal-Coated Wires Ω/km
4	5.09
6	3.39

The above table is in accordance with BS EN 60228 (previously BS 6360)

Electrical Characteristics

No. of Cores	Nominal Cross Sectional Area mm ²	Current Carrying Capacity
		In Air Amps
1	4	55
	6	70

Based on a 60°C ambient temperature

De-Rating 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

Part Number Table

Description	Nominal Cross Sectional Area mm ²	Reel Length	Part Number
Photovoltaic Solar H1Z2Z2-K Cable	4	100m	PP000513
	6		PP000514

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