Photovoltaic Solar H1Z2Z2-K Cable

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 S2 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.

CHARACTERISTICS
Voltage Rating Uo/U
AC: 1000/1000V
DC: 1500/1500V

Maximum Voltage (Umax)
1800V

Test Voltage
6.5kV AC according to BS EN 50395

Temperature Rating
Fixed: -40°C to +90°C

Minimum Bending Radius
Fixed: 4 x overall diameter
Flexed: 5 x overall diameter

Maximum Conductor Temperature
+120°C (for 20000h)

CONSTRUCTION
Conductor
Class 5 flexible tinned copper conductor

Insulation
Halogen-free cross-linked compound

Sheath
Halogen-free cross-linked, flame retardant compound

Sheath Colour
• Black
Other colours available on request

STANDARDS
EN 50618, TÜV 2 PIG 1169/08.2007, BS EN 50288-3-7, BS EN 60068-2-78, BS EN/IEC 61034-2, BS EN 60754-1/2
Flame retardant according to BS EN/IEC 60332-1-2
UV Resistant according to HD 605 S2

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL OVERALL DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
<th>TENSILE STRENGTH IN OPERATION N</th>
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## CONDUCTORS

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

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km</th>
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The above table is in accordance with BS EN 60228 (previously BS 6360)
**ELECTRICAL CHARACTERISTICS**

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<tr>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CURRENT CARRYING CAPACITY Amps</th>
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*Based on a 60°C ambient temperature*

**DE-RATING FACTORS**

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<th>AIR TEMPERATURE</th>
<th>UP TO 60°C</th>
<th>70°C</th>
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The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.