

**ELSEWEDY SOLAR - PHOTOVOLTAIC CABLE**  
**Single core: 1500 V Rated 90°C**

**Standards:** BS EN 50618  
2Pfg1169/08.2007  
EN 50267-2-2  
EN 60216  
IEC 60332-1-2  
EN 50267-1-2



**Product & Application:**

Single core flexible cables suited for photovoltaic and solar system with cross-linked polymer insulation and halogen free sheath. Tested for more 25 years lifetime. These cables can be used up 1800V to earth. Cable suitable for the interconnection of the various elements of photovoltaic systems, suitable for fixed installations outside and indoor, unprotected pipes. For direct, or indirect under- ground wiring.

**General Information:**

- **Short Description:** TCU/XL-LSHF/XL-LSHF
- **Voltage:** 0.6 / 1 (1.2) Kv
- **Conductor:** Flexible Tinned Copper Conductor according to IEC 60228 Class 5
- **Insulation:** Halogen free, thermoset polyolefin specially designed for maximum flexibility
- **Sheathing :** Halogen free, thermoset polyolefin specially designed for maximum flexibility
- **Colors :** Red, Blue, Black

**Standards / Material properties:**

- **Fire performance:** IEC 60332-1, IEC 60332-3-24
- **Smoke emission:** IEC 61034; EN 61034-2

**Electrical Data:**

- **Rated voltage U0/U acc. IEC** AC 600/1000 V  
DC 900/1500 V
- **Max. permissible operating voltage** DC 1800 V (conductor/conductor, non earthed system)
- **Working voltage DC according 2 PFG 1169/08.07 & EN 50618** DC 1000 V

**Chemical characteristics:**

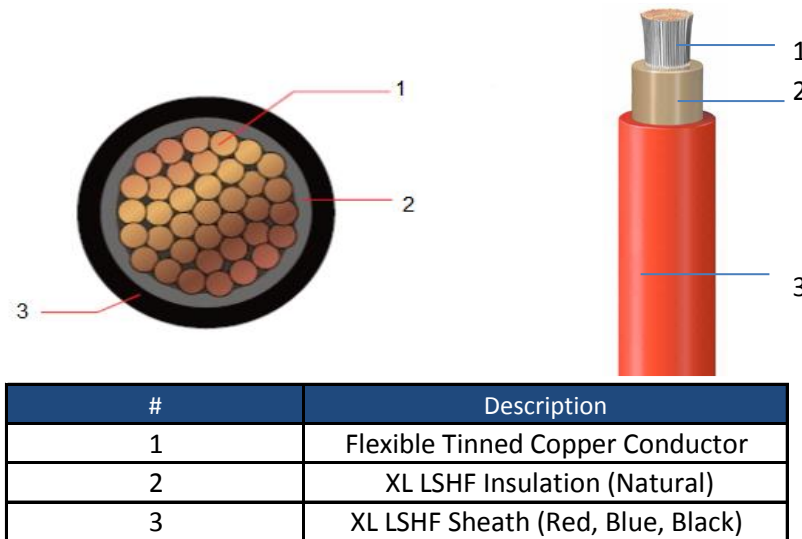
- **UV and sunlight resistance** according to HD 605/A1
- **Ozone resistance** according to EN 50396
- **Halogen free** according to EN 50267
- **Flame retardant** according to IEC 60332-1-2
- **Acid and alkaline resistance** according to EN 60811-2-1 (Oxal acid and sodium hydroxid)
- **Oil & hydrocarbon resistance** according to EN 50618

**Specifications:**

No. of	Size	Approx. Outer Diam.	Approx. Cable Weight	Conductor Diam.	Insulation Thickness	Min. Bending Radius (Fixed)	Min. Bending Radius (Occasionally Moved)	Max. Conductor DC Resistance at 20 °C
Cores	(mm <sup>2</sup> )	(mm)	(Kg/Km)	(mm)	(mm)	(mm)	(mm)	(Ω/km)
1	4	5.4	58	2.43	0.7	21.6	27	5.09
1	6	6	80	2.98	0.7	24	30	3.3

Ref. To: Solar Cable  
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-The above data is approximate and subjected to manufacturing tolerance.



**Cable Properties:**



FLAME RETARDANT  
TO IEC 60332-1-2



LOW CORROSIVE GAS  
TO EMISSION IEC  
60754-2



IMPACT RESISTANCE  
TO IEC 60811-506



HIGH TEAR  
RESISTANCE TO HD  
606



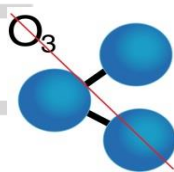
HALOGEN-FREE TO IEC  
60754-1



RESISTANCE TO  
ULTRAVIOLET  
RADIATION (UV)  
UL 1581



RESISTANCE TO EXTREME  
TEMPERATURES  
Minimun: -40°C IEC  
60811-504, -505, -506



OZONE RESISTANCE  
TO IEC 60811-403



RESISTANCE TO  
WATER ABSORPTION  
TO IEC 60811-402



Oil & Hydrocarbon  
resistant to EN 50618



ABRASION  
RESISTANCE TO EN  
50305



ENVIRONMENTALLY  
FRIENDLY