

# TUV Approved Tinned Copper Solar Cable



## Construction

**Conductor:** Tinned Copper Class 5

**Insulation:** XLPO

**Sheath:** XLPO

## Applications

Engineered specifically for interconnecting photovoltaic power supply systems, this TUV-approved cable connects solar panels to inverters and combiner boxes. Featuring high-conductivity tinned copper conductors and robust XLPO insulation, it is designed to withstand extreme environmental stresses, including long-term UV exposure, ozone, and hydrolysis. Suitable for both fixed and mobile installations on rooftops, ground-mounted solar farms, and floating PV plants.



## Standards

**Product Standard:** EN 50618 (H1Z2Z2-K), IEC 62930, TUV 2PFG 1169/08.2007 (PV1-F).

**Conductor:** IEC 60228 Class 5 (Tinned Copper).

**Flame Retardant:** IEC 60332-1-2.

**Low Smoke:** IEC 61034-2.

**Halogen Free:** IEC 60754-1/2.

**Environmental:** RoHS 2011/65/EU, REACH Compliant.

## Specification

<b>Related Voltage</b>	<b>AC 1KV, DC 1.5KV</b>
<b>Test Voltage</b>	<b>3.5KV/5Min</b>
<b>Temperature Range</b>	<b>-40°C--90°C</b>
<b>Max. Temperature at Conductor</b>	<b>120°C</b>
<b>Service Life</b>	<b>25 Years</b>

## Technical Data

Construction	Conductor Construction	Insulation OD	Outer OD	Resistance Max	Current Carrying Capacity
n×mm <sup>2</sup>	n×mm	mm	mm	/Km	A
1×1.5	30×0.25	3.05	4.7	13.7	30
1×2.5	49×0.25	3.5	5.2	8.21	41
1×4.0	56×0.285	3.58	5.5	5.09	55
1×6	84×0.285	4.45	6.2	3.39	70
1×10	142×0.3	5.5	7.2	1.85	98
1×16	228×0.3	6.0	8.8	1.24	132
1×25	361×0.3	8.7	10.8	0.795	176
1×35	494×0.3	10	12.4	0.565	218