



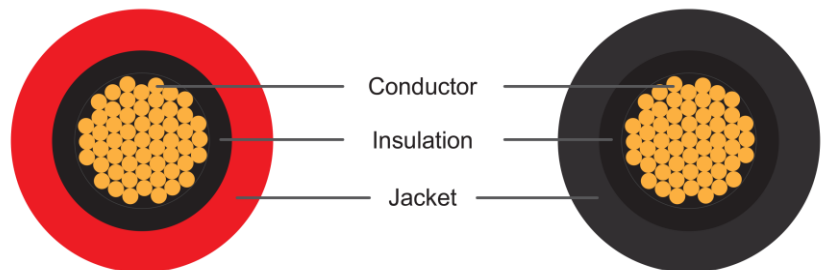
PV-1100AR  
PV-1100AB



## Scope of Applications

LINK Photovoltaic Cable, type 62930 IEC 131, H1Z2Z2-K, meets the general requirements for photovoltaic cables used in both indoor and outdoor installations. It is suitable for the interconnection wiring of grounded and underground photovoltaic power systems. The outer jacket is made from electron beam cross-linked polyolefin (XLPO) with flame-retardant, low-smoke, zero-halogen (FR-LSZH) properties to reduce toxic smoke emissions. It is UV-resistant and water-resistant for enhanced durability in harsh environments. The conductor consists of fine stranded tinned copper wires to reduce oxidation and corrosion, in accordance with IEC 60228 Class 5, DIN VDE 0295 Class 5, and RoHS compliant.

## Drawing



## Technical Standards

- IEC 62930:2017
- EN 50618:2014
- IEC 60228 Class 5
- DIN VDE 0295 Class 5
- TÜV Approvals to IEC 62930:2017 and EN 50618:2014
- RoHS compliant

## Application

- Solar Farm Solution
- Solar Rooftop Solution
- Solar Floating Solution



## Cable Construction

<b>Conductor</b>	<b>Material</b>	Fine wire stranded tinned copper according IEC 60228 Class 5
	<b>Size</b>	10 mm <sup>2</sup>
<b>Insulation</b>	<b>Material</b>	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) according to IEC 62930:2017 & EN 50618:2014
	<b>Thickness</b>	0.70 mm
	<b>Diameter</b>	5.40±0.20 mm
	<b>Color</b>	Black
<b>Jacket</b>	<b>Material</b>	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) with FR-LSZH according to IEC 62930:2017 & EN 50618:2014
	<b>Thickness</b>	0.80 mm
	<b>Color</b>	Red or Black
<b>Cable Diameter</b>		7.20±0.30 mm

## Electrical Characteristic

<b>Conductor Resistance at 20°C</b>		≤ 1.95 Ω/km
<b>Rated Current</b>	<b>at 30°C (IEC62930)</b>	98 A
	<b>at 60°C (EN50618)</b>	98 A
<b>Nominal Voltage U<sub>0</sub>/U</b>		DC 1500/1500V, AC 1000/1000V
<b>Max. DC voltage</b>		1800V (conductor-conductor, non-earth system, circuit not under load)
<b>Insulation Resistance at 20°C</b>		≥ 489 MΩ/km
<b>AC Test Voltage</b>		6.5 KV
<b>DC Test Voltage</b>		15 KV

## Environmental Characteristic

<b>Max. temperature at conductor</b>	120°C
<b>Temperature Range</b>	-40°C to +90°C
<b>Halogen free</b>	according to IEC 62930:2017, IEC 60754-1 & IEC 60754-2
<b>Ozone resistance</b>	according to EN 50396 & IEC 60811-403
<b>Weathering/UV resistance</b>	according to IEC62930 Annex E, EN 60811-501 & EN 50289-4-17
<b>Mineral oil immersion</b>	according to IEC 60811-404
<b>Flame characteristics</b>	according to IEC 60332-1-2 & IEC 60332-1-3
<b>Smoke emission</b>	according to IEC 61034-1 & IEC 61034-2
<b>Acid and alkaline resistant</b>	according to IEC 62930 & IEC/EN 60811-404
<b>Water resistance</b>	according to Category AD8, IEC 62440: Annex A, IEC 60364-5-51: Table 51A, EN 50525-2-21:2011
<b>Damp heat test</b>	according to IEC/EN 60068-2-78
<b>Certified</b>	Approval TÜV Rheinland IEC 62930:2017 Certificate number. R 50635458 Approval TÜV Rheinland EN 50618:2014 Certificate number. R 50635463



## Mechanical Characteristic

<b>Min. bending radius</b>		5 x Cable diameter
<b>Tensile strength and elongation</b>		according to IEC/EN 60811-1-1
<b>Tensile Strength</b>	<b>Insulation</b>	≥ 8 N/mm <sup>2</sup>
	<b>Jacket</b>	≥ 8 N/mm <sup>2</sup>
<b>Cold bending</b>		according to IEC/EN 60811-504
<b>Cold elongation</b>		according to IEC/EN 60811-505
<b>Cold impact</b>		according to IEC/EN 60811-506
<b>Hot set test</b>		according to IEC 60811-507
<b>Thermal endurance properties</b>		according to IEC 60216-2
<b>Shrinkage</b>		according to EN 60811-503

## Order Information

Part number	Description	Color	Length	Package
PV-1100AB	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x10 mm <sup>2</sup>	Black	1000 m	Roll.
PV-1100AR	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x10 mm <sup>2</sup>	Red	1000 m	Roll.

\*Other jacket color available on request

Specifications subject to change without notice.

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