



CB-1040AR

CB-1040AB

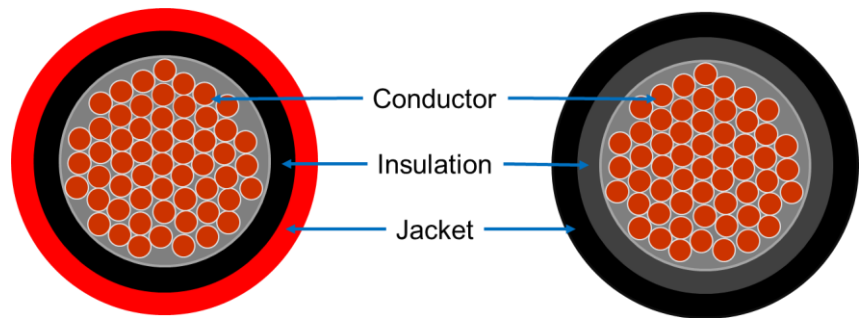


## Advance Solar (Photovoltaic) Cable, 4sq.mm

### Scope of Applications

LINK Advance Photovoltaic cable type 62930 IEC131, H1Z2Z2-K (PV1-F), cover the general requirements for photovoltaic cable used for outdoor and indoor installation, and suitable for interconnection wiring of grounded and underground photovoltaic power system. The outer jacket made from electron beam XLPE with FR-LSZH to reduce the amount toxic smoke, UV-resistance and resistance against water. The conductor made of fine wire strands of tinned copper wires to reduce oxidation or corrosion, according IEC 60228 Class5, 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 R 50495554, R 50635458, and R 50635463
- RoHS compliant

### Application

- Use for interconnection wiring of grounded and underground photovoltaic power systems
- 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>	4 mm <sup>2</sup>
<b>Insulation</b>	<b>Material</b>	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE) according IEC 62930:2017 & EN 50618:2014
	<b>Thickness</b>	0.70
	<b>Diameter</b>	4.00±0.20
	<b>Color</b>	Black
<b>Jacket</b>	<b>Material</b>	Halogen free, Copolymer Electron beam cross-linked polyethylene (XLPE) with FR-LSZH according IEC 62930:2017 & EN 50618:2014
	<b>Thickness</b>	0.80
	<b>Color</b>	Red or Black
<b>Cable</b>	<b>Diameter</b>	5.40±0.30

## Electrical Characteristic

<b>Conductor Resistance at 20°C</b>	≤ 5.09 Ω/km
<b>Rated Current at 30°C (IEC62930)</b>	57 A
<b>at 60°C (EN50618)</b>	55 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>	≥ 580 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 IEC 62930:2017, IEC 60754-1, IEC 60754-2 & IEC 62821-1
<b>Ozone resistance</b>	according EN 50396 & IEC 60811-403
<b>UV resistance</b>	according HD 605/A1 & IEC62930 Annex E
<b>Mineral oil immersion</b>	according IEC 60811-404
<b>Flame characteristics</b>	according IEC 60332-1-2 & IEC 60332-1-3
<b>Smoke emission</b>	according IEC 61034-1 & IEC 61034-2
<b>Acid and alkaline resistant</b>	according IEC 62930 & IEC/EN 60811-404
<b>Water resistance</b>	According Category AD8, IEC 62440: Annex A, IEC 60364-5-51: Table 51A
<b>Industrial standard</b>	Approval TÜV IEC 62930 (IEC131) Certificate number. R50495554, R 50635458 Approval TÜV 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 IEC 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 IEC 60811-504
<b>Cold elongation</b>		according IEC 60811-505
<b>Hot set test</b>		according IEC 60811-507
<b>Thermal endurance properties</b>		according IEC 60216-2

## Order Information

Part number	Description	Color	Length	Package
CB-1040AB	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Black	1000 m	Roll.
CB-1040AR	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Red	1000 m	Roll.
CB-1040AB-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Black	500 m	Roll.
CB-1040AR-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Red	500 m	Roll.
CB-1040AB-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Black	100 m	Easy Bx.
CB-1040AR-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm <sup>2</sup>	Red	100 m	Easy Bx.

\*Other jacket color available on request

Specifications subject to change without notice.

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