Solar (Photovoltaic) Cable, 6sq.mm

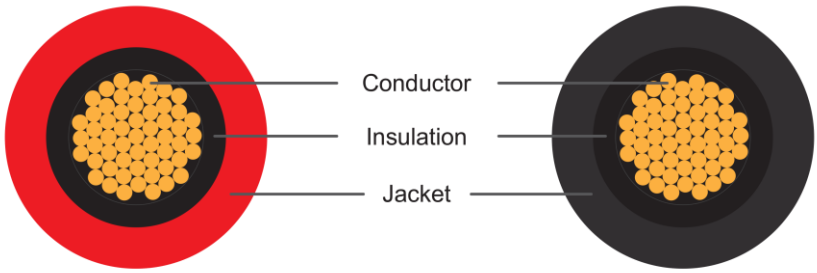
(Special Floating Solar Farm with Certificate Test)

CB-1060SAR
CB-1060SAB

Scope of Applications

LINK Advance Photovoltaic Cable, type 62930 IEC 131, H1Z2Z2-K, complies with the general requirements for photovoltaic cables used in both indoor and outdoor installations. It is suitable for interconnection wiring in grounded, undergrounded, and floating photovoltaic power systems. The outer jacket is made from electron beam cross-linked polyolefin (XLPO) with flame-retardant, low-smoke, zero-halogen (FR-LSZH), minimizes toxic smoke emissions and offers excellent resistance to UV radiation and water. The conductor is constructed from finely stranded tinned copper wires, reducing oxidation and corrosion, and complies with IEC 60228 Class 5, DIN VDE 0295 Class 5, and RoHS standards.

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
  TÜV Approvals Water Resistance AD8: EN 50525-2-21
- RoHS compliant

Application

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

Cable Construction

Conductor	**Material**	Fine wire-stranded tinned copper according to IEC 60228 Class 5
	Size	6 mm^2
Insulation	**Material**	Halogen-free, Copolymer Electron beam cross-linked polyethylene (XLPE) according to IEC 62930:2017 & EN 50618:2014
	Thickness	0.70
	Diameter	4.60±0.2
	Color	Black
Jacket	**Material**	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) with FR-LSZH according to IEC 62930:2017 & EN 50618:2014
	Thickness	0.80
	Color	Red or Black
Cable Diameter		6.30±0.30

Electrical Characteristic

Conductor Resistance at 20°C		≤ 3.39 Ω/km
Rated Current	**at 30°C (IEC62930)**	72 A
	at 60°C (EN50618)	70 A
Nominal Voltage U_0/U		DC 1500/1500V, AC 1000/1000V
Max. DC voltage		1800V (conductor-conductor, non-earth system, circuit not under load)
Insulation Resistance at 20°C		≥ 610 MΩ/km
AC Test Voltage		6.5 KV
DC Test Voltage		15 KV

Environmental Characteristic

Max. temperature at conductor	120°C
Temperature Range	-40°C to +90°C
Halogen free	according to IEC 62930:2017, IEC 60754-1, IEC 60754-2, IEC 62821-1 & EN50525-1
Ozone resistance	according to EN 50396 & IEC 60811-403
Weathering/UV resistance	according to IEC62930 Annex E, EN 60811-501 & EN 50289-4-17
Mineral oil immersion	according to IEC 60811-404
Flame characteristics	according to IEC 60332-1-2 & IEC 60332-1-3
Smoke emission	according to IEC 61034-1 & IEC 61034-2
Acid and alkaline resistant	according to IEC 62930 & IEC/EN 60811-404
Water resistance	According to Category AD8 EN 50525-2-21:2011
Damp heat test	according to IEC/EN 60068-2-78
Certified	Approval TÜV Rheinland IEC 62930:2017 Certificate number. R 50635458 Approval TÜV Rheinland EN 50618:2014 Certificate number. R 50635463 Approval TÜV Water Resistance AD8: EN 50525-2-21 Test Report No. CN24ZUMQ 001

Mechanical Characteristic

Min. bending radius		5 x Cable diameter
Tensile strength and elongation		according to IEC 60811-1-1
Tensile Strength	**Insulation**	≥ 8 N/mm²
	Jacket	≥ 8 N/mm²
Cold bending		according to IEC/EN 60811-504
Cold elongation		according to IEC/EN 60811-505
Cold impact		according to IEC/EN 60811-506
Hot set test		according to IEC 60811-507
Thermal endurance properties		according to IEC 60216-2
Shrinkage		according to EN 60811-503

Order Information

Part number	Description	Color	Length	Package
CB-1060SAB	PV Solar Cable 6 mm², Special Cable	Black	1000 m	Roll.
CB-1060SAR	PV Solar Cable 6 mm², Special Cable	Red	1000 m	Roll.

*Other jacket color available on request

Specifications subject to change without notice.