CB-1060AX_Technical Specification_V1.2_10(

American Cabling

LINK AMERICAN CABLING

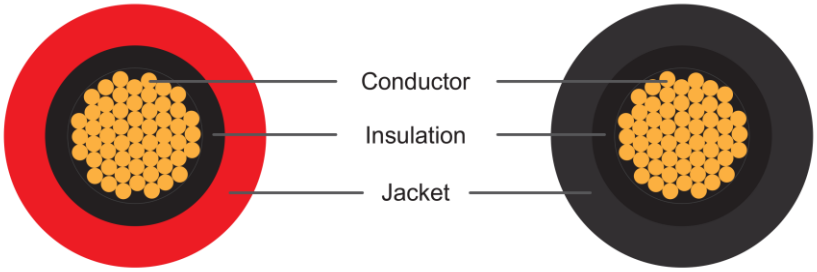
CB-1060AR
CB-1060AB

Advance Solar (Photovoltaic) Cable, 6 sq.mm

Scope of Applications

LINK Advance 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 undergrounded 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

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 polyolefin (XLPO) 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		≥ 500 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, IEC 62440: Annex A, IEC 60364-5-51: Table 51A, 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

Order Information

Part number	Description	Color	Length	Package
CB-1060AB	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Black	1000 m	Roll.
CB-1060AR	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Red	1000 m	Roll.
CB-1060AB-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Black	500 m	Roll.
CB-1060AR-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Red	500 m	Roll.
CB-1060AB-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Black	100 m	Easy Bx.
CB-1060AR-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x6 mm^2	Red	100 m	Easy Bx.

*Other jacket color available on request