



CB-1040AR
CB-1040AB

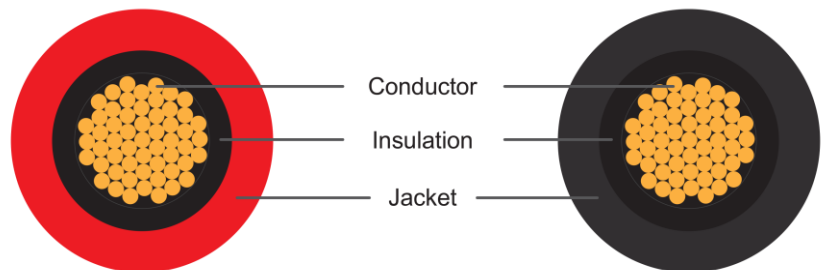


Advance Solar (Photovoltaic) Cable, 4 sq.mm

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 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

Conductor	Material	Fine wire stranded tinned copper according to IEC 60228 Class 5
	Size	4 mm ²
Insulation	Material	Halogen free, Copolymer Electron beam cross-linked polyolefin (XLPO) according to IEC 62930:2017 & EN 50618:2014
	Thickness	0.70 mm
	Diameter	3.90±0.20 mm
	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 mm
	Color	Red or Black
Cable Diameter		5.40±0.30 mm

Electrical Characteristic

Conductor Resistance at 20°C		≤ 5.09 Ω/km
Rated Current	at 30°C (IEC62930)	57 A
	at 60°C (EN50618)	55 A
Nominal Voltage U₀/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		≥ 709 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



Mechanical Characteristic

Min. bending radius		5 x Cable diameter
Tensile strength and elongation		according to IEC/EN 60811-1-1
Tensile Strength	Insulation	≥ 8 N/mm ²
	Jacket	≥ 8 N/mm ²
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-1040AB	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Black	1000 m	Roll.
CB-1040AR	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Red	1000 m	Roll.
CB-1040AB-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Black	500 m	Roll.
CB-1040AR-5	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Red	500 m	Roll.
CB-1040AB-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Black	100 m	Easy Bx.
CB-1040AR-1	PV Solar Cable, 62930 IEC131, H1Z2Z2-K, (1.5/1.5KVDC), 1x4 mm ²	Red	100 m	Easy Bx.

*Other jacket color available on request

Specifications subject to change without notice.

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CB-1040AX-V1.6-011025