



FEATURES AND BENEFITS

LINK Photovoltaic cable type 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 EN 60288, Class5, RoHs compliant.

ORDER INFORMATION

Part Number	Description	Length	Color	Package
CB-1025B	LINK Solar Cable, 1x2.5 mm ²	1000 m	Black	Roll.
CB-1025R	LINK Solar Cable, 1x2.5 mm ²	1000 m	Red	Roll.
CB-1040B	LINK Solar Cable, 1x4 mm ²	1000 m	Black	Roll.
CB-1040R	LINK Solar Cable, 1x4 mm ²	1000 m	Red	Roll.
CB-1060B	LINK Solar Cable, 1x6 mm ²	1000 m	Black	Roll.
CB-1060R	LINK Solar Cable, 1x6 mm ²	1000 m	Red	Roll.
CB-1100B	LINK Solar Cable, 1x10 mm ²	1000 m	Black	Roll.
CB-1100R	LINK Solar Cable, 1x10 mm ²	1000 m	Red	Roll.
CB-1160B	LINK Solar Cable, 1x16 mm ²	1000 m	Black	Roll.
CB-1160R	LINK Solar Cable, 1x16 mm ²	1000 m	Red	Roll.

Add "-1" at the end of the P/N = 100 m /Pkg.

CABLE CONSTRUCTION

Conductor Material	Fine wire stranded tinned copper according EN 60288 Class 5
Insulation Material	Halogen free Electron beam cross-linked polyethylene (XLPE)
Jacket Material	Halogen free Electron beam cross-linked polyethylene (XLPE) with FR-LSZH
Jacket Color	Red or Black

TECHINICAL SPECIFICATION

Size (mm ²)	Conductor Diameter (N/mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Conductor Resistance at 20°C (Ω/km)	Insulation Resistance at 20°C (MΩ/km)	Rated Current at 60°C (A)
2.5	50/0.25	0.80	3.65±0.2	0.80	5.80±0.3	≤ 8.21	≥ 690	41
4	56/0.30	0.80	4.20±0.2	0.80	6.05±0.3	≤ 4.85	≥ 580	55
6	84/0.30	0.80	4.90±0.2	0.80	6.50±0.3	≤ 3.10	≥ 500	70
10	84/0.4	0.80	5.75±0.2	0.80	8.66±0.3	≤ 1.95	≥ 420	98
16	126/0.4	0.80	7.55±0.2	0.90	10.10±0.3	≤ 1.24	≥ 340	132

ELECTRICAL CHARACTERISTIC

Nominal Voltage U ₀ /U	AC 1000/1000V, DC 1500/1500V
Max. DC voltage	1800V (conductor-conductor, non-earth system, circuit not under load)
AC Test Voltage	6.5 KV
DC Test Voltage	15 KV
Min. Surface resistance of sheath	10 ⁹ Ω
Electrical tests	according EN 50395

ENVIRONMENTAL CHARACTERISTIC

Max. temperature at conductor	-40°C to +120°C
Temperature Range	-40°C to +90°C
Halogen free	according EN 50618, IEC 60754-1, IEC 60754-2
Ozone resistance	according EN 50396, EN 60811-403
UV resistance	according HD 605/A1, EN 50618 Annex E
Mineral oil immersion	According EN 60811-404
Flame characteristics	according IEC 60332-1-2
Smoke emission	according EN 61034-1, EN 61034-2
Industrial standard	according TÜV 2PFG 1169/08.2007 & EN 50618
Approval	TÜV Cert. No. R 50344941

MECHANICAL CHARACTERISTIC

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