

FINOLEX SOLAR ENDURA CABLES

POWERING SUSTAINABLE GROWTH | POWERED BY E-BEAM IRRADIATION TECHNOLOGY

Solar Energy & Photovoltaic Cable Systems

Solar energy offers vast potential for sustainable electricity generation. At the forefront of this energy revolution are photovoltaic (PV) systems that convert sunlight into electrical energy through PV module arrays. Integral to these systems are specially designed solar PV cables.

Finolex Cable emerges as a trusted manufacturer and supplier in the PV industry, offering a comprehensive range of solar cables tailored to diverse project needs. The TÜV-certified Finolex Cable PV H1Z2Z2-K, IEC 131 cable (IS 17293, EN 50618 and IEC 62930 Standards) is suitable for both fixed and mobile solar installations, including solar farms, rooftop installations, and floating plants.

KEY PRODUCT FEATURES

- In-house Electron Beam curing facility, imported from Korea
- UV, Ozone, Temperature & Hydrolysis Resistant
- Flame Retardant, Low Smoke (H1Z2Z2-K / EN 50618)
- Excellent Encapsulation & Insulation Resistance
- Service Life Exceeding 25 Years under harsh ambient outdoor conditions
- TÜV Rheinland Certified (2.5mm² to 35mm², in Black & Red)

SOLAR PV INSTALLATIONS STRING CABLE CONSTRUCTION

- **Conductor:** Electrolytic Annealed Tinned Copper Class 5 (Flexible) as per EN 60228.
- **Insulation:** Electron Beam Cross-Linked Halogen-free & Flame Retardant Compound (XLPO), Compliant with IS 17293, EN 50618 & IEC 62930.
- **Outer Sheath:** Electron Beam Cross-Linked Halogen-free & Flame Retardant Compound, Compliant with IS 17293, EN 50618 & IEC 62930.
- **Color:** Red & Black, or Black with Red stripe.
- **Code Designation:** PV, H1Z2Z2-K, 62930 IEC 131.

TECHNICAL SPECIFICATIONS & PERFORMANCE METRICS

Parameter / Property	Specification Standard Value
Conductivity	More than 100%
Minimum Light Transmission	60%
Halogen Gas Released	Max. 0.5% maximum by weight
Non Corrosivity	pH Index ≥ 4.3, Conductivity ≤ 10 µs/mm
Toxicity Gases Index	Max. 3
UV Resistance	Excellent (EN 50618, IEC 62930 & IS 17293)

Ozone Resistance	Excellent (EN 60811-403, EN 50396)
Acid & Alkaline Resistance	Excellent
Damp Heat Resistance	Excellent
Temperature Range	-40 °C to 120 °C (Max Conductor Temp)
Max. Operating Voltage	1.5 kV DC / Nominal 1.0/1.0 kV AC
Test Voltage	6.5 kV AC as per EN 50395

DIMENSIONAL & INSULATION RESISTANCE VALUES

According to EN 50618, IS 17293 & IEC 62930 Standards

Size (sq.mm)	Max Res. @20°C (Ω/km)	Current Capacity (A)	Thickness Insul. (mm)	Thickness Sheath (mm)	Mean Dia. (mm)	Min Ins. Res @20°C (MΩ.km)	Min Ins. Res @90°C (MΩ.km)
1X1.5	13.7	28	0.7	0.8	5.4	860	0.86
1X2.5	8.21	38	0.7	0.8	5.9	690	0.69
1X4.0	5.09	52	0.7	0.8	6.6	580	0.58
1X6.0	3.39	66	0.7	0.8	7.4	500	0.50
1X10	1.95	89	0.7	0.8	8.8	420	0.42
1X16	1.24	120	0.7	0.9	10.1	340	0.34
1X25	0.795	167	0.9	1.0	12.5	340	0.34
1X35	0.565	207	0.9	1.1	14.0	290	0.29
1X50	0.393	261	1.0	1.2	16.3	270	0.27
1X70	0.277	329	1.1	1.2	18.7	250	0.25
1X95	0.210	394	1.1	1.3	20.8	220	0.22
1X120	0.164	462	1.2	1.3	22.8	210	0.21
1X150	0.132	537	1.4	1.4	25.5	210	0.21
1X185	0.108	611	1.6	1.6	28.5	200	0.20
1X240	0.0817	735	1.7	1.7	32.1	200	0.20

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