

FINOLEX SOLAR ENDURA CABLES

Finolex

XCEEDS XPECTATIONS

**POWERING
SUSTAINABLE
GROWTH**



POWERED BY E-BEAM IRRADIATION TECHNOLOGY

MTR FINOLEX Solar Endura 26K010067 6sqmm 1.5KV DC H1Z2Z2-K EN 50618 /

www.finolex.com

SOLAR ENDURA PV CABLES - Powering Photovoltaic Systems with Efficiency and Reliability

Solar energy, one of the most abundant power sources, 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. Our solutions span cable selection, design, and efficient project management, all supported by technical expertise. We also provide unwavering support through logistics and after-sales service, ensuring a seamless experience for our valued customers.

Committed to excellence, Finolex

Cable upholds stringent quality standards throughout the manufacturing process, delivering reliable products that meet the highest benchmarks of performance. Our nationwide presence empowers solar initiatives, driving the transition towards a sustainable energy landscape.

Code Designation: PV, H1Z2Z2-K, 62930 IEC 131

Application:

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. This flexible cable is compatible with all major connectors and is designed to connect photovoltaic panels effectively.

This versatile multi-stranded conductor cable is designed to meet the diverse needs of the solar industry. Finolex Solar Cables are also suitable for wet, damp, and humid locations.



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.

CHARACTERISTICS:

The TÜV-certified Finolex Cable PV H1Z2Z2-K cable (EN 50618) and complying to IS 17293:2020 & IEC 62930 standards is suitable for both fixed and mobile solar installations, including solar farms, rooftop installations, and floating plants. This flexible cable is compatible with all major connectors and is designed to connect photovoltaic panels effectively. The single-conductor cable is versatile, meeting the diverse needs of the solar industry. Finolex Solar Cables are also suitable for wet, damp, and humid locations.

ELECTRICAL PERFORMANCE:

- Max. Operating Voltage - 1.5 kV DC
- Nominal Voltage - 1.0/1.0 kV AC
- Test Voltage - 6.5 kV as per EN 50395

THERMAL PERFORMANCE:

- Ambient Temperature: -40 to 90°C
- Max Conductor Temperature: 120°C
- Max Short-Circuit Temperature: 250°C (up to 5 seconds)
- Min Service Temperature: -40°C (for fixed and protected installations)

FIRE PERFORMANCE:

- Flame non Propagation: EN 60332-1-2 / IEC 60332-1-2, IS 10810-53
- Fire non-propagation: EN 50399
- Low smoke halogen-free: EN 50267-2-1 & EN 60754-2 / IEC 60754-2, IS 17293
- Low corrosive gas emission: EN 60754-2 / IEC 60754-2
- Low smoke emission: EN 50268-2 EN 61034 / IEC 61034, IS 17293 : Light transmittance > 60%

MECHANICAL PERFORMANCE:

- Min Bending Radius:
 - 4x cable diameter (≤ 8 mm)
 - 5x cable diameter (8-12 mm)
 - 6x cable diameter (> 12 mm)
- Impact Resistance: AG2 Medium Severity

ENVIRONMENTAL PERFORMANCE:

- Chemical & Oil Resistance: Excellent
- Grease & Mineral Oil Resistance: Excellent
- Ozone Resistance: EN 60811-403, EN 50396, IS 17293, IEC 62930
- UV Resistance: EN 50618, IEC 62930 & IS 17293
- Water Resistance: AD7 (Immersion)

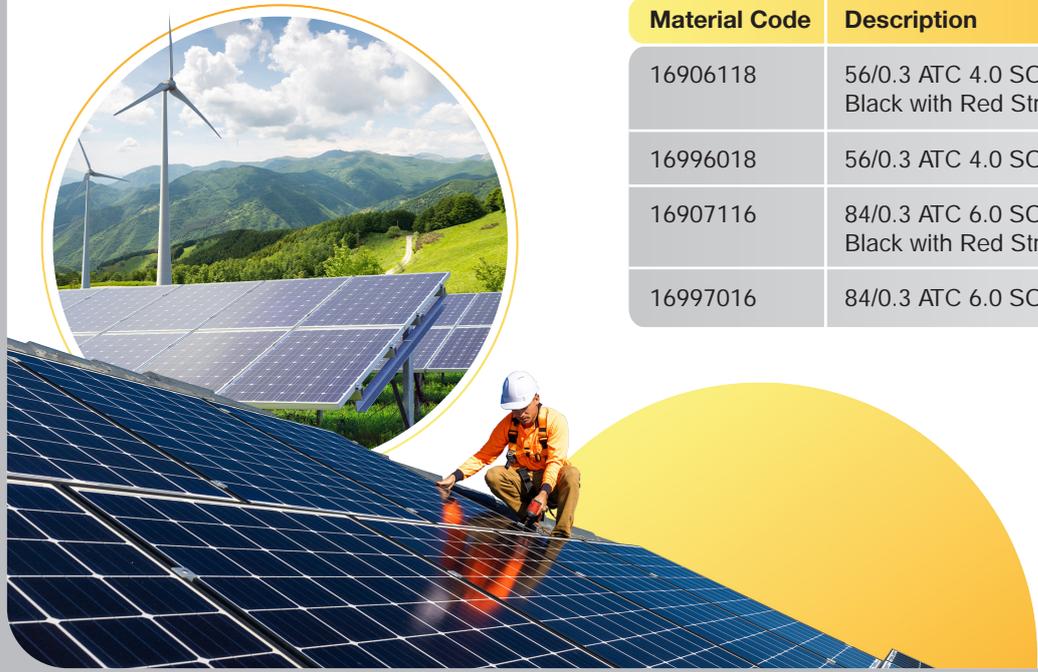
INSTALLATION CONDITIONS

- In open air
- Standards / Compliance:**
- EN 50618, H1Z2Z2-K
 - IEC 62930, 131
 - IS 17293, PV
- Standards and Approvals:**
- TÜV Rheinland (2.5 to 35mm², in Black and Red)

FEATURES

- * In-house Electron Beam curing facility,
- * UV, Ozone, Temperature & Hydrolysis Resistant
- * Flame Retardant, Low Smoke
- * Excellent Encapsulation
- * Service Life exceeding 25 years

Material Code	Description
16906118	56/0.3 ATC 4.0 SOLAR CABLE Ebeam 500M Black with Red Stripe
16996018	56/0.3 ATC 4.0 SOLAR CABLE Ebeam 500M Black
16907116	84/0.3 ATC 6.0 SOLAR CABLE Ebeam 300M Black with Red Stripe
16997016	84/0.3 ATC 6.0 SOLARCABLE Ebeam 300M Black



Dimensional and Insulation resistance values According to EN 50618 , IS 17293 & IEC 62930

Number and Nominal Cross Section Area of Conductors	Maximum Conductor Resistance at 20°C	Current Carrying Capacity (Single Cable Free in Air)	Thickness of Insulation Specified Value	Thickness of Sheath Specified Value	Mean Overall Diameter Upper Limit Informative Value	EN 50618		IS 17293 & IEC 62930	
						Minimum Insulation Resistance at 20°C	Minimum Insulation Resistance at 90°C	Minimum Insulation Resistance at 20°C	Minimum Insulation Resistance at 90°C
sq.mm	Ω/km	Amp	mm	mm	mm	MΩ.km	MΩ.km	MΩ.km	MΩ.km
1X1.5	13.7	28	0.7	0.8	5.4	860	0.86	1050	1.05
1X2.5	8.21	38	0.7	0.8	5.9	690	0.69	862	0.862
1X4	5.09	52	0.7	0.8	6.6	580	0.58	709	0.709
1X6	3.39	66	0.7	0.8	7.4	500	0.50	610	0.610
1X10	1.95	89	0.7	0.8	8.8	420	0.42	489	0.489
1X16	1.24	120	0.7	0.9	10.1	340	0.34	393	0.393
1X25	0.795	167	0.9	1.0	12.5	340	0.34	395	0.395
1X35	0.565	207	0.9	1.1	14.0	290	0.29	335	0.335
1X50	0.393	261	1.0	1.2	16.3	270	0.27	314	0.314
1X70	0.277	329	1.1	1.2	18.7	250	0.25	291	0.291
1X95	0.210	394	1.1	1.3	20.8	220	0.22	258	0.258
1X120	0.164	462	1.2	1.3	22.8	210	0.21	249	0.249
1X150	0.132	537	1.4	1.4	25.5	210	0.21	260	0.260
1X185	0.108	611	1.6	1.6	28.5	200	0.20	268	0.268
1X240	0.0817	735	1.7	1.7	32.1	200	0.20	249	0.249
1X300	0.0654	831	1.8	1.8	35.6	--	--	237	0.237
1X400	0.0495	999	2.0	2.0	40.6	--	--	230	0.230

ABOUT US

Finolex Cables Ltd., now recognized as India's premier manufacturer in the electrical and telecommunication cable sector. Finolex Cables initiated its operations by producing PVC insulated electrical cables tailored for the automotive industry. Over time, the company has been dedicated to broadening its product offerings. This expansion includes an array of items such as PVC Insulated Industrial Cables, HF FR LSH (Halogen Free Flame Retardant) Single Core Flexible Cables, FR-LSH PVC Insulated Industrial Cables, and a diverse range of PVC Insulated Single Core and Multicore Flexible Industrial Cables compliant to Rodent Repellent & Vermin Proof Multicore Flexible Industrial Cables, PVC Insulated Winding Wires, and 3 Core Flat Cables.

The company's repertoire further extends to XLPE 3 Core Flat Cables, Power and Control Cables, High Voltage Power Cables (up to 33 kV), and Polyethylene Insulated Jelly Filled Telephone Cables. Moreover, Finolex products include Auto & Battery Cables, Co-axial and CATV cables, LAN Cables, Switchboard Cables, Fibre Optic Cables, Solar Cables, among other cable products.



Finolex

Cables Limited

AN IS/ISO 9001 CERTIFIED COMPANY

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