

Aluminum alloy Solar Cable



Construction

Conductor: aluminum alloy Class 5

Insulation: XLPO

Sheath: XLPO



Applications

Designed for high-performance solar energy transmission, this cable features a high-conductivity aluminum alloy conductor that minimizes weight and simplifies installation. It is ideally suited for fixed installation in solar farms, cable trays, and underground conduits.

Standards

Product Standard: EN 50618 (H1Z2Z2-K), IEC 62930, TUV 2PFG 1169/08.2007 (PV1-F).

Conductor: Conductor: ASTM B800 / B801 (AA-8000 Series Alloy), IEC 60228 Class 2/5.

Flame Retardant: IEC 60332-1-2.

Low Smoke: IEC 61034-2.

Halogen Free: IEC 60754-1/2.

Environmental: RoHS 2011/65/EU, REACH Compliant.

Specification

Related Voltage	AC 1KV, DC 1.5KV
Test Voltage	3.5KV/5Min
Temperature Range	-40°C--90°C
Max. Temperature at Conductor	120°C
Service Life	25 Years

Technical Data

Construction	Conductor Construction	Insulation OD	Outer OD	Resistance Max	Current Carrying Capacity
n×mm ²	n×mm	mm	mm	/Km	A
1×1.5	30×0.25	3.05	4.7	13.7	30
1×2.5	49×0.25	3.5	5.2	8.21	41
1×4.0	56×0.285	3.58	5.5	5.09	55
1×6	84×0.285	4.45	6.2	3.39	70
1×10	142×0.3	5.5	7.2	1.85	98
1×16	228×0.3	6.0	8.8	1.24	132
1×25	361×0.3	8.7	10.8	0.795	176
1×35	494×0.3	10	12.4	0.565	218