

HALOGEN FREE LOW SMOKE SOLAR CABLE

62930 IEC 131



APPROVALS

TÜV Approval IEC62930
1.5mm²~35mm²



Cross section (mm ²)	Conductor construction (n/mm)	Conductor stranded OD. (mm)	Cable OD. (mm)	Conductor Max. Resistance AT20 °C (Ω/km)	Current carrying capacity AT60 °C (A)
1.5	30/0.25	1.58	4.90	13.7	30
2.5	49/0.25	2.02	5.40	8.21	41
4.0	56/0.285	2.50	6.00	5.09	55
6.0	84/0.285	3.17	6.30	3.39	70
10	84/0.40	4.56	8.00	1.95	98
16	128/0.40	5.60	9.60	1.24	132
25	192/0.40	6.95	11.40	0.769	176
35	276/0.40	8.74	13.20	0.565	218

The current-carrying capacity is under the situation of laying the single cable in air.

TECHNICAL DATA

Technical	62930 IEC 131
Nominal voltage	U0/U=1000/1000V AC, 1500VDC
Voltage test on completed cable	6.5kV AC, 15kV DC, 5min
Ambient temperature	-40°C up to +90°C
Max. Temperature at conductor	+120°C
Bending radius	≥4xφ(D<8mm) ≥6xφ(D≥8mm)
Compatibility test	IEC60811-401:2012, 135+2/168h
Resistance against acid and alkaline solution	IEN60811-2-1
Cold bending test	IEC60811-506
Damp heat test	IEC60068-2-78
Weathering/UV-resistance	IEC62930
O-zone resistance at complete cable	IEC60811-403
Fire test	IEC60332-1
Smoke density	IEC 61034-2, EN 50268-2
Assessment of halogens for all non-metallic material	IEC62821-1
The expected period of use is 25years(Ambient temperature:-40°C up to +90°C)	
The permit short-circuit-temperature refer to a period of 5s is +200°C	

UL
PV WIRE

1000 OR 2000V



APPROVALS

UL Approval : UL4703 1000V OR 2000V
18AWG-2AWG



AWG/Cross section (mm ²)	Conductor construction (n/mm)	Conductor stranded OD. (mm)	Cable OD. (mm)	Conductor Max. Resistance AT20 °C (Ω/km)	Test voltage (KV,50HZ/min)
18	16/0.254	1.18	5.00	23.20	6
16	26/0.254	1.49	5.30	14.69	6
14	41/0.254	1.88	5.70	8.96	6
12	65/0.254	2.36	6.20	5.64	6
10	105/0.254	3.00	6.90	3.546	7.5
8	168/0.254	4.10	8.40	2.23	7.5
6	266/0.254	5.20	10.30	1.403	7.5
4	420/0.254	6.95	11.70	0.882	7.5
2	665/0.254	8.74	13.30	0.5548	7.5

TECHNICAL DATA

Technical	PV wire
Nominal voltage	1000or2000VAC
Test voltage(U0)	U=1000V, 2000V, 18~10AWG, U0=6000V, 50HZ, 1Min 8~2AWG, U0=7500V, 50HZ, 1Min
Conductor maximum temperature	+120°C
Ambient temperature	-40°C up to +90°C
Relative permittivity	UL854
Cold bend test	UL854
Sunlight resistance	UL2556
Fire test	UL1581 VW-1
Heat distortion test	UL1581-560(121+2°C) x1h, 2000g, ≤50%