



PHOTOVOLTAIC WIRE (無鹵光伏電纜)

Standard (標準) • • • • **IEC62930 & EN50618**

Use (使用範圍) • • • • • **DC-side of photovoltaic power systems with a nominal d.c. voltage of 1.5KV not exceed 1.8 KV between conductors and between conductor and earth.**

The cables are suitable to be used with class II equipment.

The cables have a rated voltage of 1.0/1.0 KV when used in alternating current (a. c.) systems. (該電纜適用於直流 1.5KV 電壓, 最大 1.8KV 的光電設備系統; 線纜使用於第 II 類設備上。)

Rating (額定) • • • • • **Temperature -40 ~ 90°C (120 °C Max.) 工作環境條件為 (-40 至 90°C), 溫度最高 120°C。**

Construction (構造) • • • **Single-conductor double layers, Flexible, HFXLPO\HFXLPO extrusion grade. (可撓性雙層絕緣無鹵交連聚乙烯單芯電纜)**

Conductor (導體)		Conductor Resistance (導體電阻) @ 20°C Max.	Thickness of insulation specified value (絕緣最少平均厚度)	Thickness of sheath specified value (被覆最少平均厚度)	Mean overall diameter upper limit informative value. (最大外徑)	Minimum insulation resistance at 20 °C (最小絕緣電阻)	Minimum insulation resistance at 90 °C (最小絕緣電阻)	Current carrying capacity (安全電流)
Wire Size (截面積)								
mm ²	(No./mm)	(Ω/km)	mm	mm	mm	MΩ.km	MΩ.km	A
1.5	30/0.25	13.70	0.70	0.80	5.4	1050	1.05	31
2.5	50/0.25	8.21	0.70	0.80	5.9	862	0.862	42
4	56/0.30	5.09	0.70	0.80	6.6	709	0.709	57
6	84/0.30	3.39	0.70	0.80	7.2	610	0.610	72
10	80/0.40	1.95	0.70	0.80	8.3	489	0.489	98
16	126/0.40	1.24	0.70	0.90	9.8	393	0.393	132
25	203/0.40	0.795	0.90	1.00	12.2	395	0.395	183
35	280/0.40	0.565	0.90	1.10	14.0	335	0.335	227
50	399/0.40	0.393	1.00	1.20	16.3	314	0.314	287
70	441/0.45	0.277	1.10	1.20	18.7	291	0.291	361
95	608/0.45	0.210	1.10	1.30	20.8	258	0.258	433
120	760/0.45	0.164	1.20	1.30	23.0	249	0.249	508
150	950/0.45	0.132	1.40	1.40	25.7	260	0.260	590
185	976/0.45	0.108	1.60	1.60	28.7	268	0.268	671
240	1517/0.45	0.0817	1.70	1.70	32.3	249	0.249	808

Ambient temperature (環境溫度)	Conversion factor (溫度係數)
0	1.22
10	1.55
20	1.08
30	1.00

Ambient temperature (環境溫度)	Conversion factor (溫度係數)
40	0.91
50	0.82
60	0.71
70	0.58

Note: 1. Metric conductors in accordance with conductors of insulated cables, IEC 60228, Class 5.

2. UV RESISTANCE (720h.) & WATER RESISTANCE

3. Normal life 25 years Min.