



PHOTOVOLTAIC WIRE (太陽能光伏電纜)

UL File No. (檔案號碼)..... E331974

Standard (標準規格)..... UL subject 4703

Use (用途) Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in wiring systems, Article 690, and other applicable parts of the National Electrical Code (NEC), NFPA 70. (地底與地面上之太陽能系統內部連接光伏電纜依據 Article 690 與國際電工法規 (NEC), NFPA 70. 之規定)

Rating Temperature (額定溫度) 90°C (90°C)

Rating Voltage (額定電壓) AC 1000 V / 2000V. 交流電壓 1000V/2000V.

Construction (構造)..... Single-conductor, Double layers, Flexible, Irradiation XLPO extrusion grade. (單芯雙層具有可繞性之照射交聯聚乙烯絕緣/被覆押出等級)

Conductor (導體)				Insulation / Jacket (絕緣/被覆)		Current carrying capacity (安全電流) Single cable free in air (單芯空中) (A)	Insulation Resistance (絕緣電阻) MΩ-km (15°C)	Dielectric Resistance (耐電壓) (kV / Min.)	Rating Voltage (額定電壓) (AC V)																																																																																																																																																								
Wire Size (規格) AWG / (mm ²)	Stranding (絞線) (No. / mm)	Diameter (外徑) (mm)	Resistance (導體電阻) @ 20°C (Ω/km)	Min. Avg. Thickness (厚度) 最小平均 (mm)	Diameter Approx. (外徑) 約 (mm)																																																																																																																																																												
14 / (2.5)	50 / 0.25	2.00	8.21	1.52	6.90	36	1260	6/1	1000/2000																																																																																																																																																								
				0.76						12 / (4)	56 / 0.30	2.60	5.09	1.52	7.50	45	1070	6/1	0.76	10 / (6)	84 / 0.30	3.40	3.39	1.52	8.70	60	940	6/1	0.76	8 / (10)	80 / 0.40	4.10	1.95	1.78	9.60	88	864	7.5/1	0.76	6 / (16)	7 / 18 / 0.40	5.50	1.24	1.78	11.00	117	726	7.5/1	0.76	4 / (25)	7 / 29 / 0.40	7.00	0.795	1.78	12.50	157	605	7.5/1	0.76	2 / (35)	7 / 40 / 0.40	8.20	0.565	1.78	13.80	190	518	9/1	0.76	1 / (50)	7 / 57 / 0.40	9.80	0.393	2.29	16.50	247	549	9/1	0.76	1/0 / (53.5)	7 / 49 / 0.45	10.30	0.337	2.29	17.00	260	530	9/1	0.76	2/0 / (70)	7 / 64 / 0.45	12.20	0.277	2.29	18.80	308	483	9/1	0.76	3/0 / (95)	19 / 32 / 0.45	14.40	0.210	2.29	21.00	375	422	9/1	0.76	4/0 / (120)	19 / 40 / 0.45	16.10	0.164	2.29	23.00	438	376	10/1	0.76	300 kcmil / (152)	19 / 50 / 0.45	18.00	0.122	2.67	25.50	516	390	10/1	0.76	350 kcmil / (177)	37 / 30 / 0.45	19.50	0.115	2.67	27.0	578	370	10/1	0.76	400 kcmil / (203)	37 / 35 / 0.45	21.00	0.0920	2.67	28.50	642	350	10/1	0.76	450 kcmil / (228)	37 / 39 / 0.45	22.30	0.0818	2.67	30.00	704	330	10/1	0.76	500 kcmil / (253)	37 / 43 / 0.45
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Note: 1. Wire size Nos. (18 ~ 4/0 AWG) or (0.823 ~ 107.2 mm²) are available in UL standard.

2. Metric conductors in accordance with conductors of insulated cables, IEC 60228, Class 5.

3. Marking : (UL) PV WIRE 90°C DRY/WET VW-1 1KV/2KV 12AWG/4 mm² SUN RES. /-40°C TA YA E331974
0000 M 00001 M 0002 M