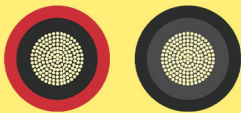


SOWELL SOLAR

**SOWELLSOLAR
Safety Solar
Photovoltaic
Cable**



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PV-UL SERIES

SOLAR DC CABLE

UL4703 / PV wire 1000V/2000V

Range of cross sectional area: 16AWG-2AWG

**10
YEARS
LIMITED
PRODUCT
WARRANTY**

**25
YEARS
SERVICE
LIFE**

Sowell Solar

SOLAR DC CABLE

PV-UL SERIES

SOLAR DC CABLE

UL4703 / PV wire 1000V/2000V

Range of cross sectional area: 16AWG-2AWG

Application

Halogen free cross-linked polyolefin double layers photovoltaic cables for use at the photovoltaic power systems. This cable can match with most PV-components like PV-junction boxes and PV-connectors, which have a rated voltage of 1000/2000 V DC.

Cable surface marking

(UL) E535462 Type PV Wire 12AWG 90°C Dry and Wet 1000/2000V Sun Res -40°C VW-1

SOWELLSOLAR ***M YY-MM-DD

Certificate

UL4703 E535462

Construction												
Part No.	Conductor				Insulation			Jacket		Outer Dia.	Conductor resistance (20°C)	Insulation resistance for a long time (97°C)
Part No.	Area	Construction	Conductor Dia.	Thickness	Minimum thickness	Thickness	Minimum thickness	mm	mm			
Part No.	AWG	mm ²	N/mm	mm	mm	mm	mm	mm	mm	≤Ω/Km	≥MΩ·km	
PV-UL-02	2	35	268/0.4	8.5	1.39	1.25	1.14	1.02	13.56	0.555	0.035	
PV-UL-04	4	25	168/0.4	6.89	1.39	1.25	1.14	1.02	11.95	0.882	0.045	
PV-UL-06	6	16	106/0.4	4.76	1.39	1.25	1.14	1.02	9.82	1.403	0.055	
PV-UL-08	8	10	66/0.4	3.75	1.39	1.25	0.76	0.69	8.05	2.23	0.055	
PV-UL-10	10	6.0	76/0.3	3.02	1.14	1.05	0.76	0.69	6.82	3.546	0.055	
PV-UL-12	12	4.0	48/0.3	2.40	1.14	1.05	0.76	0.69	6.20	5.64	0.065	
PV-UL-14	14	2.5	43/0.25	1.89	1.14	1.05	0.76	0.69	5.69	8.96	0.075	
PV-UL-16	16	1.5	27/0.25	1.496	1.14	1.05	0.76	0.69	5.30	14.6	0.075	

Electric Characteristic		
Item	Units	Specification
Withstand voltage (2-8AWG)	V/5min	AC7500
Withstand voltage (8-18AWG)	V/5min	AC6000

Electric Characteristic			
Item	Condition	Specification	
		Insulation	Jacket
Unaged	Tensile strength	/	≥10.3Mpa
	Elongation	/	≥150%
Aging	Tensile strength	121±2°CX168h	≥70%
	Elongation	121±2°CX168h	≥70%
Conductor Corrosion	Unaged and aging	Pass	
Deformation Test	121±2°CX1h	≤50%	
Cold Shock	-40±1°CX16h	No crack	
Flaming test	/	-	vw-1

