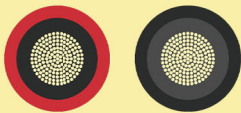


SOWELL SOLAR

**SOWELLSOLAR
Safety Solar
Photovoltaic
Cable**



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PV-UT SERIES

SOLAR DC CABLE

UL4703 / PV wire 2000V

(PPP58209 PV2000DC TCA 2000V)

Range of cross sectional area: 16AWG-2AWG
(1.5mm²-35mm²)

**10
YEARS
LIMITED
PRODUCT
WARRANTY**

**25
YEARS
SERVICE
LIFE**

Sowell Solar

SOLAR DC CABLE (TCA)

PV-UT SERIES

SOLAR DC CABLE

UL4703 / PV wire 2000V (PPP58209 PV2000DC TCA 2000V)

Range of cross sectional area: 16AWG-2AWG (1.5mm²-35mm²)

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 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--

TÜV SÜD PPP58209A PV2000DC (TCA) 1X4,0mm² 2000V SOWELLSOLAR ***M YY-MM-DD

Certificate

UL4703 E535462

TUV PPP58209A B1161110004

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-UT-02	2	35	273/0.41	8.02	1.39	1.25	1.14	1.02	13.08	0.5548	0.035	
PV-UT-04	4	25	192/0.41	6.72	1.39	1.25	1.14	1.02	11.78	0.882	0.145	
PV-UT-06	6	16	126/0.41	5.45	1.39	1.25	1.14	1.02	10.51	1.403	0.055	
PV-UT-08	8	10	77/0.41	4.23	1.39	1.25	0.80	0.69	8.61	2.23	0.055	
PV-UT-10	10	6.0	84/0.31	3.39	1.14	1.05	0.80	0.69	7.27	3.546	0.055	
PV-UT-12	12	4.0	56/0.31	2.77	1.14	1.05	0.80	0.69	6.65	5.64	0.065	
PV-UT-14	14	2.5*	49/0.26	2.18	1.14	1.05	0.80	0.69	6.06	8.96	0.075	
PV-UT-16	16	1.5*	30.0.26	1.71	1.14	1.05	0.80	0.69	5.59	14.6	0.075	

Reminder: Products with * are only applicable to UL4703, not PV2000DC (TCA)

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

