

Photovoltaic Cable UL 44 / UL 854

Solar cable for PV and renewable energy project supply

Photovoltaic Cable UL 44 / UL 854 is prepared for preliminary product selection and quotation review. This product is used in photovoltaic power systems where UV resistance, temperature rating, voltage grade and outdoor durability are important for project selection.



VOLTAGE

600V, 1000V, 2000V

CONDUCTOR

Tinned copper conductor route, confirmed by technical table

TYPICAL USE

PV module interconnection

STANDARDS

UL 854; UL 44/854; UL 1581

DATA SCOPE

1 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm voltage, conductor size, UV rating, temperature class and standard.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- PV module interconnection
- solar power plants
- rooftop solar systems
- BESS and renewable energy DC cable routes.

Selection logic

- Confirm rated voltage, conductor size, insulation/sheath material, UV and temperature requirements, flame performance and applicable project standard.

Construction Overview

Item	Website-ready content
Product route	Tinned copper or copper conductor with solar-grade insulation and sheath according to the selected PV cable standard.
Voltage	600V, 1000V, 2000V
Conductor	Tinned copper conductor route, confirmed by technical table
Standards	UL 854; UL 44/854; UL 1581
Confirmation	Final structure, dimensions and packing should follow selected standard, quotation review and order specification.

Readable Data Index

Data route	Size / rating range	Construction	Diameter / OD	Resistance / weight / rating
UL 44 RHW-2 / UL 854 USE-2 - 600V / 2000V Rated	14 AWG - 2 AWG	See table	193 / 4.90 - 442 / 11.23	2.73 - 0.170

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

UL 44 RHW-2 / UL 854 USE-2 - 600V / 2000V Rated

Reference table for preliminary selection and quotation review.

Size (AWG)	Insulation Thick. (mils/mm)	Approx. Overall Dia. (mils/mm)	Approx. Weight (lb/kft)	Ampacity @ 90°C (Amps)	Max. DC Resistance @ 20°C (Ω/kft)
UL 44 RHW-2 / UL 854 USE-2 - 600V / 2000V Rated					
14 AWG	60 / 1.52	193 / 4.90	28	25	2.73
12 AWG	60 / 1.52	212 / 5.38	38	30	1.72
10 AWG	60 / 1.52	236 / 5.99	51	40	1.08
8 AWG	75 / 1.91	296 / 7.52	85	55	0.679
6 AWG	75 / 1.91	334 / 8.48	125	75	0.427
4 AWG	75 / 1.91	382 / 9.70	185	95	0.269
2 AWG	75 / 1.91	442 / 11.23	275	130	0.170