

Aluminum PV Cable

Solar cable for PV and renewable energy project supply

Aluminum PV Cable 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

Aluminum alloy AA-8000
conductor route, confirmed
by technical table

TYPICAL USE

PV module interconnection

STANDARDS

UL 4703; 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	Aluminum alloy AA-8000 conductor route, confirmed by technical table
Standards	UL 4703; 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
AA-8000 Aluminum Solar Feeder - 600V / 2000V Rated	6 AWG - 500 kcmil	See table	334 / 8.48 - 1035 / 26.29	0.674 - 0.035

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.

AA-8000 Aluminum Solar Feeder - 600V / 2000V Rated

Reference table for preliminary selection and quotation review.

Size (AWG / kcmil)	Insulation Thick. (mils/mm)	Approx. Overall Dia. (mils/mm)	Approx. Weight (lb/kft)	Ampacity @ 90°C (Amps)	Max. DC Resistance @ 20°C (Ω/kft)
AA-8000 Aluminum Solar Feeder - 600V / 2000V Rated					
6 AWG	75 / 1.91	334 / 8.48	65	60	0.674
4 AWG	75 / 1.91	382 / 9.70	95	75	0.424
2 AWG	75 / 1.91	442 / 11.23	145	100	0.266
1/0 AWG	95 / 2.41	545 / 13.84	225	135	0.168
2/0 AWG	95 / 2.41	595 / 15.11	275	155	0.133
4/0 AWG	95 / 2.41	710 / 18.03	420	205	0.084
250 kcmil	110 / 2.79	785 / 19.94	510	230	0.071
500 kcmil	110 / 2.79	1035 / 26.29	955	350	0.035