

Aluminum Building Wire

Building wire for electrical systems and service entrance wiring

Aluminum Building Wire is prepared for preliminary product selection and quotation review. This product is used for building electrical systems where conductor material, insulation rating, flame performance and local wiring rules determine product selection.



VOLTAGE

600V

CONDUCTOR

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

TYPICAL USE

Residential and commercial
wiring

STANDARDS

UL 44/83; UL 83; UL 854;
ASTM B800

DATA SCOPE

1 technical table(s) included
for preliminary selection

SELECTION NOTE

Confirm conductor, insulation
type, voltage rating, size and
local wiring rule.

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

ethan@farwalkcable.com | +86 155 5800 6344

Application & Selection Summary

Typical applications

- Residential and commercial wiring
- panel feeders
- branch circuits
- service entrance wiring
- conduit, tray or building electrical installation routes.

Selection logic

- Confirm conductor material, voltage rating, insulation type, installation method and applicable UL, IEC or local wiring standard before selection.

Construction Overview

Item	Website-ready content
Product route	Copper or aluminum conductor with thermoplastic or cross-linked insulation according to the selected building wire type and standard.
Voltage	600V
Conductor	Aluminum alloy AA-8000 conductor route, confirmed by technical table
Standards	UL 44/83; UL 83; UL 854; ASTM B800
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 Building Wire - 600V	8 AWG - 500 kcmil	See table	See table	35 - 805

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 Building Wire - 600V

Reference table for preliminary selection and quotation review.

Size (AWG / kcmil)	Approx. mm ² Equivalent	Approx. OD (XHHW-2 mils/mm)	Approx. Weight (lb/kft)	Allowable Ampacity @ 90°C (Amps)
AA-8000 Aluminum Building Wire - 600V				
8 AWG	8.37	233 / 5.9	35	45
6 AWG	13.30	271 / 6.9	51	60
4 AWG	21.15	317 / 8.1	76	75
2 AWG	33.62	379 / 9.6	116	100
1/0 AWG	53.49	475 / 12.1	185	135
2/0 AWG	67.43	520 / 13.2	228	150
4/0 AWG	107.22	632 / 16.1	349	205
250 kcmil	126.68	705 / 17.9	420	230
500 kcmil	253.35	910 / 23.1	805	350