

SER UL 854 / ASTM B800 / B801

Building wire for electrical systems and service entrance wiring

SER UL 854 / ASTM B800 / B801 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

ASTM B800; UL 854; ASTM
B801

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.

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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	ASTM B800; UL 854; ASTM B801
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
Stranded AA-8000 Aluminum SER - UL 854 / ASTM	8 AWG - 250 kcmil	See table	638 / 16.2 - 1825 / 46.4	165 - 1550

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.

Stranded AA-8000 Aluminum SER - UL 854 / ASTM

Reference table for preliminary selection and quotation review.

Size (AWG / kcmil)	No. of Conductors	Insulation Thick. (mils/mm)	Approx. Overall Dia. (mils/mm)	Approx. Weight (lb/kft)	Allowable Ampacity @ 90°C (Amps)
Stranded AA-8000 Aluminum SER - UL 854 / ASTM					
8 AWG	3C + Ground	45 / 1.14	638 / 16.2	165	45
6 AWG	3C + Ground	45 / 1.14	735 / 18.7	235	60
4 AWG	3C + Ground	45 / 1.14	848 / 21.5	330	75
2 AWG	3C + Ground	45 / 1.14	1015 / 25.8	495	100
1/0 AWG	3C + Ground	55 / 1.40	1255 / 31.9	740	135
2/0 AWG	3C + Ground	55 / 1.40	1375 / 34.9	895	150
4/0 AWG	3C + Ground	55 / 1.40	1655 / 42.0	1325	205
250 kcmil	3C + Ground	65 / 1.65	1825 / 46.4	1550	230