

AACSR Conductor (Aluminum Alloy Conductor Steel Reinforced, ASTM B711)

Bare overhead conductor for standard-based line selection

AACSR Conductor (Aluminum Alloy Conductor Steel Reinforced, ASTM B711) is prepared for preliminary product selection and quotation review. This product is used for overhead line routes where conductor material, stranding, rated strength and DC resistance must be reviewed against the selected project standard. Final selection should consider span length, mechanical loading, route environment and local utility requirements.



VOLTAGE

Not voltage-rated; selected by conductor standard and line design

CONDUCTOR

Steel or reinforced conductor route, according to standard

TYPICAL USE

Overhead transmission and distribution lines

STANDARDS

ASTM B711

DATA SCOPE

2 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm standard route, conductor size, stranding, strength and line design.

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

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Application & Selection Summary

Typical applications

- Overhead transmission and distribution lines
- utility feeder routes
- substation or busbar connections
- replacement projects requiring standard-based bare conductor selection.

Selection logic

- Review the required standard route first.
- Compare conductor area, stranding, rated strength, DC resistance and overall diameter.
- For higher tension or long spans, compare with reinforced or alloy conductor alternatives.

Construction Overview

Item	Website-ready content
Product route	Concentric-lay stranded bare conductor. Material and reinforcement depend on the selected product type and standard route.
Voltage	Reviewed according to selected product standard
Conductor	Steel or reinforced conductor route, according to standard
Standards	ASTM B711
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
ASTM B711 AACSR - Distribution & Light Transmission	4/0 AWG (211.3) - 477 kcmil	6 / 1 - 26 / 7	14.31 - 21.79	515 - 976
ASTM B711 AACSR - Extreme Span & Heavy Weather Transmissio	556.5 kcmil - 1192.5 kcmil	26 / 7 - 54 / 19	23.55 - 34.00	1140 - 2290

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.

ASTM B711 AACSR - Distribution & Light Transmission

Reference table for preliminary selection and quotation review.

Size (AWG / kcmil)	Stranding (Alloy / St)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B711 AACSR - Distribution & Light Transmission					
4/0 AWG (211.3)	6 / 1	14.31	515	46.2	0.315
266.8 kcmil	26 / 7	16.31	545	62.4	0.248
336.4 kcmil	26 / 7	18.31	688	77.5	0.197
397.5 kcmil	26 / 7	19.89	813	91.2	0.166
477 kcmil	26 / 7	21.79	976	109.4	0.138

ASTM B711 AACSR - Extreme Span & Heavy Weather Transmission

Reference table for preliminary selection and quotation review.

Size (kcmil)	Stranding (Alloy / St)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B711 AACSR - Extreme Span & Heavy Weather Transmission					
556.5 kcmil	26 / 7	23.55	1140	127.2	0.119
636 kcmil	26 / 7	25.15	1300	145.0	0.104
795 kcmil	54 / 7	27.76	1520	168.1	0.083
954 kcmil	54 / 7	30.38	1830	201.5	0.069
1192.5 kcmil	54 / 19	34.00	2290	255.8	0.056