

ACSR/AW Conductor (Aluminum Conductor, Aluminum-Clad Steel Reinforced, ASTM B549)

Bare overhead conductor for standard-based line selection

ACSR/AW Conductor (Aluminum Conductor, Aluminum-Clad Steel Reinforced, ASTM B549) 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

Aluminum / aluminum alloy conductor route, confirmed by technical table

TYPICAL USE

Overhead transmission and distribution lines

STANDARDS

ASTM B549

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	Aluminum / aluminum alloy conductor route, confirmed by technical table
Standards	ASTM B549
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 B549 ACSR/AW - Distribution & Medium Span	4 AWG - 266.8 kcmil	6 / 1 - 18 / 1	6.53 - 15.47	102 - 482
ASTM B549 ACSR/AW - Long Span & High Voltage Transmission	266.8 - 2156	26 / 7 - 84 / 19	16.31 - 44.75	516 - 3580

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 B549 ACSR/AW - Distribution & Medium Span

Reference table for preliminary selection and quotation review.

Code Name (/AW)	Size (AWG / kcmil)	Stranding (AI / AW)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B549 ACSR/AW - Distribution & Medium Span						
Swan/AW	4 AWG	6 / 1	6.53	102	8.15	1.348
Sparrow/AW	2 AWG	6 / 1	8.01	155	12.50	0.849
Robin/AW	1 AWG	6 / 1	9.02	197	15.40	0.673
Raven/AW	1/0 AWG	6 / 1	10.11	248	19.00	0.533
Quail/AW	2/0 AWG	6 / 1	11.35	313	23.10	0.423
Pigeon/AW	3/0 AWG	6 / 1	12.75	395	28.50	0.335
Penguin/AW	4/0 AWG	6 / 1	14.31	499	35.30	0.266
Waxwing/AW	266.8 kcmil	18 / 1	15.47	482	29.70	0.214

ASTM B549 ACSR/AW - Long Span & High Voltage Transmission

Reference table for preliminary selection and quotation review.

Code Name (/AW)	Size (kcmil)	Stranding (Al / AW)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B549 ACSR/AW - Long Span & High Voltage Transmission						
Partridge/AW	266.8	26 / 7	16.31	516	48.2	0.210
Linnet/AW	336.4	26 / 7	18.31	651	60.0	0.166
Hawk/AW	477	26 / 7	21.79	923	82.8	0.117
Dove/AW	556.5	26 / 7	23.55	1077	95.5	0.100
Grosbeak/AW	636	26 / 7	25.15	1231	106.8	0.088
Drake/AW	795	26 / 7	28.14	1538	133.5	0.070
Condor/AW	795	54 / 7	27.76	1449	120.5	0.070
Cardinal/AW	954	54 / 7	30.38	1740	144.8	0.058
Bluebird/AW	2156	84 / 19	44.75	3580	258.0	0.026