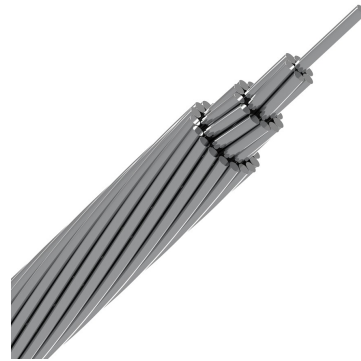


AAAC Conductor (All Aluminum Alloy Conductor, ASTM B399)

Bare overhead conductor for standard-based line selection

AAAC Conductor (All Aluminum Alloy Conductor, ASTM B399) 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 B399

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 B399
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 B399 AAAC 6201-T81 - distribution sizes	30.58 - 246.9	7 x 1.68 - 7 x 4.77	5.04 - 14.30	2.16 - 0.268
ASTM B399 AAAC 6201-T81 - transmission sizes	312.8 - 927.2	19 x 3.26 - 37 x 4.02	16.30 - 28.10	0.211 - 0.071

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 B399 AAAC 6201-T81 - distribution sizes

Reference table for preliminary selection and quotation review.

Code Name	Size	Area (kcmil)	Area (mm ²)	Stranding	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Resistance @20°C (Ω/km)
Akron	#6 AWG	30.58	15.5	7 x 1.68	5.04	42.8	4.93	2.16
Alton	#4 AWG	48.69	24.7	7 x 2.12	6.36	68.1	7.85	1.36
Ames	#2 AWG	77.47	39.2	7 x 2.67	8.00	108	12.45	0.855
Azusa	1/0 AWG	123.3	62.5	7 x 3.37	10.10	172	19.00	0.536
Anaheim	2/0 AWG	155.4	78.7	7 x 3.78	11.30	217	23.90	0.426
Amherst	3/0 AWG	195.7	99.2	7 x 4.25	12.80	274	30.22	0.337
Alliance	4/0 AWG	246.9	125.1	7 x 4.77	14.30	345	38.08	0.268

ASTM B399 AAAC 6201-T81 - transmission sizes

Reference table for preliminary selection and quotation review.

Code Name	Size	Area (kcmil)	Area (mm ²)	Stranding	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Resistance @20°C (Ω/km)
Butte	312.8 kcmil	312.8	158.5	19 x 3.26	16.30	437	46.77	0.211
Canton	394.5 kcmil	394.5	199.9	19 x 3.66	18.30	551	58.94	0.168
Cairo	465.4 kcmil	465.4	235.8	19 x 3.98	19.90	646	69.40	0.142
Darien	559.5 kcmil	559.5	283.5	19 x 4.36	21.80	776	83.60	0.118
Elgin	652.4 kcmil	652.4	330.6	19 x 4.71	23.50	905	97.40	0.101
Flint	740.8 kcmil	740.8	375.3	37 x 3.59	25.20	1028	108.50	0.089
Greeley	927.2 kcmil	927.2	469.8	37 x 4.02	28.10	1287	135.70	0.071