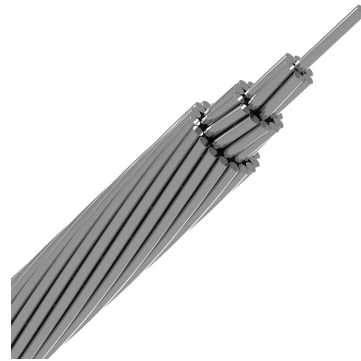


AAAC Conductor (All Aluminum Alloy Conductor, IEC 61089)

Bare overhead conductor for standard-based line selection

AAAC Conductor (All Aluminum Alloy Conductor, IEC 61089) 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

IEC 61089; BS EN 50182; DIN 48201; 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	IEC 61089; BS EN 50182; DIN 48201; 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
IEC 61089 AAAC (AL4 Alloy) - 7 to 19 Strands	16 - 120	7 x 1.70 - 19 x 2.80	5.10 - 14.00	4.67 - 34.50
IEC 61089 AAAC (AL4 Alloy) - 37 to 91 Strands	150 - 800	37 x 2.25 - 91 x 3.35	15.75 - 36.85	43.43 - 238.12

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.

IEC 61089 AAAC (AL4 Alloy) - 7 to 19 Strands

Reference table for preliminary selection and quotation review.

Nom. Area (mm²)	Stranding (No. x Dia mm)	Overall Dia. (mm)	Linear Mass (kg/km)	Rated Strength (kN)	Max DC Res. @20°C (Ω/km)
IEC 61089 AAAC (AL4 Alloy) - 7 to 19 Strands					
16	7 x 1.70	5.10	43.4	4.67	2.0728
25	7 x 2.12	6.36	67.5	7.27	1.3323
35	7 x 2.50	7.50	94.0	10.11	0.9585
50	7 x 3.00	9.00	135.4	14.56	0.6656
70	19 x 2.15	10.75	189.5	20.37	0.4851
95	19 x 2.50	12.50	255.8	27.49	0.3587
120	19 x 2.80	14.00	321.1	34.50	0.2860

IEC 61089 AAAC (AL4 Alloy) - 37 to 91 Strands

Reference table for preliminary selection and quotation review.

Nom. Area (mm²)	Stranding (No. x Dia mm)	Overall Dia. (mm)	Linear Mass (kg/km)	Rated Strength (kN)	Max DC Res. @20°C (Ω/km)
IEC 61089 AAAC (AL4 Alloy) - 37 to 91 Strands					
150	37 x 2.25	15.75	404.2	43.43	0.2284
185	37 x 2.50	17.50	499.0	53.62	0.1850
240	61 x 2.25	20.25	668.6	71.85	0.1388
300	61 x 2.50	22.50	825.4	88.69	0.1124
400	61 x 2.89	26.01	1103.0	118.52	0.0841
500	61 x 3.23	29.07	1378.1	148.08	0.0673
630	91 x 2.97	32.67	1740.0	187.00	0.0535
800	91 x 3.35	36.85	2216.0	238.12	0.0421