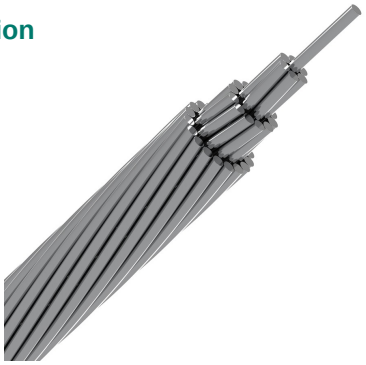
AAAC Conductor (All Aluminum Alloy Conductor, BS 3242 / DI AS 1531 / NFC 34-125)

Bare overhead conductor for standard-based line selection



AAAC Conductor (All Aluminum Alloy Conductor, BS 3242 / DIN 48201 / AS 1531 / NFC 34-125) 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

BS 3242; AS 1531; NFC 34-125; DIN 48201-6; additional project standards

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	BS 3242; AS 1531; NFC 34-125; DIN 48201-6; BS EN 50182; 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
BS 3242 (BS EN 50182) - African & Middle Eastern Tenders	34.4 - 500	7 / 2.50 - 37 / 4.14	7.50 - 29.00	94.3 - 1378.0
NFC 34-125 - Francophone Africa & French Grids	34.4 - 851.0	7 / 2.50 - 91 / 3.45	7.50 - 37.95	94.3 - 2367.0

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.

BS 3242 (BS EN 50182) - African & Middle Eastern Tenders

Reference table for preliminary selection and quotation review.

Code Name	Nominal Area (mm²)	Stranding (No./mm)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
BS 3242 (BS EN 50182) - African & Middle Eastern Tenders						
Almond	34.4	7 / 2.50	7.50	94.3	10.11	0.969
Hazel	59.9	7 / 3.30	9.90	164.0	17.65	0.556
Pine	73.6	7 / 3.66	11.00	201.0	21.60	0.453
Ash	106	7 / 4.39	13.20	290.0	29.26	0.314
Elm	122	7 / 4.72	14.20	335.0	33.70	0.272
Sycamore	162	19 / 3.30	16.50	447.0	47.70	0.206
Upas	200	19 / 3.66	18.30	549.0	58.60	0.168
Yew	266	19 / 4.22	21.10	732.0	76.50	0.126
Totara	323	19 / 4.65	23.30	888.0	92.80	0.104
Rubus	362	37 / 3.53	24.70	999.0	106.8	0.093
Sorbus	415	37 / 3.78	26.50	1146.0	122.3	0.081
Araucaria	500	37 / 4.14	29.00	1378.0	145.0	0.067

NFC 34-125 - Francophone Africa & French Grids

Reference table for preliminary selection and quotation review.

Code Name	Nominal Area (mm²)	Stranding (No./mm)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
NFC 34-125 - Francophone Africa & French Grids						
34.4	34.4	7 / 2.50	7.50	94.3	11.40	0.956
54.6	54.6	7 / 3.15	9.45	150.0	18.10	0.601
75.5	75.5	19 / 2.25	11.25	208.5	25.00	0.437
117	117.0	19 / 2.80	14.00	323.0	38.80	0.282
148	148.1	19 / 3.15	15.75	409.0	49.10	0.223
228	227.8	37 / 2.80	19.60	631.5	75.60	0.145
288	288.3	37 / 3.15	22.05	799.0	95.70	0.115
570	570.2	61 / 3.45	31.05	1582.0	180.0	0.058
851	851.0	91 / 3.45	37.95	2367.0	268.0	0.039