

AAC Conductor (All Aluminum Conductor, BS 215 / DIN

Bare overhead conductor for standard-based line selection

AAC Conductor (All Aluminum Conductor, BS 215 / DIN 48201) 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

BS 215; DIN 48201-5; IEC 61089

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	BS 215; DIN 48201-5; IEC 61089
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 215 Part 1 - UK, Middle East & African Markets (Insect)	22 - 500	7 / 2.06 - 37 / 4.27	6.18 - 29.89	65 - 1470
DIN 48201-5 - Strict Metric Standard (Europe & Global)	16 - 1000	7 / 1.70 - 91 / 3.74	5.10 - 41.10	43.4 - 2755.0

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 215 Part 1 - UK, Middle East & African Markets (Insect Codes)

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 215 Part 1 - UK, Middle East & African Markets (Insect Codes)						
Midge	22	7 / 2.06	6.18	65	3.99	1.227
Ant	50	7 / 3.10	9.30	145	8.28	0.5419
Fly	60	7 / 3.40	10.20	174	9.90	0.4505
Wasp	100	7 / 4.39	13.17	290	16.00	0.2702
Hornet	150	19 / 3.35	16.75	462	27.20	0.1704
Caterpillar	200	19 / 3.78	18.90	589	34.20	0.1339
Cockroach	250	19 / 4.22	21.10	734	41.60	0.1074
Butterfly	300	19 / 4.65	23.25	891	49.60	0.0884
Centipede	400	37 / 3.78	26.46	1150	66.50	0.0688
Cicada	500	37 / 4.27	29.89	1470	83.50	0.0538

DIN 48201-5 - Strict Metric Standard (Europe & Global)

Reference table for preliminary selection and quotation review.

Nominal Area (mm²)	Stranding (No./mm)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
DIN 48201-5 - Strict Metric Standard (Europe & Global)					
16	7 / 1.70	5.10	43.4	2.85	1.792
25	7 / 2.10	6.30	66.2	4.25	1.164
35	7 / 2.50	7.50	94.3	5.85	0.821
50	7 / 3.00	9.00	135.0	8.25	0.568
70	19 / 2.10	10.50	180.0	11.40	0.428
95	19 / 2.50	12.50	256.0	16.00	0.301
120	19 / 2.80	14.00	322.0	19.50	0.239
150	37 / 2.25	15.75	405.0	25.00	0.190
185	37 / 2.50	17.50	499.0	30.50	0.154
240	61 / 2.25	20.25	667.0	41.00	0.115
300	61 / 2.50	22.50	824.0	50.00	0.0935
400	61 / 2.89	26.01	1101.0	65.50	0.0699
500	61 / 3.23	29.07	1376.0	81.00	0.0559
630	91 / 2.97	32.67	1732.0	103.00	0.0445
800	91 / 3.35	36.85	2210.0	130.00	0.0350
1000	91 / 3.74	41.10	2755.0	160.00	0.0282