

Product Specifications



AAAC CONDUCTOR

All aluminium alloy conductor(AAAC) is a special alloy with Magnesium and Silicium with an excellent conductivity value,specific mechanical resistance and high corrosion resistance.

Standard

- IEC61089
- ASTM B-399
- BS3242
- NFC34125

Construction

- AA-6101 aluminium alloy,Concentrically stranded
- Max. Size 2500MCM, Max. str. No. 91Wires

Application

- Used for overhead distribution and transmission lines especially adjacent to ocean coastlines for corrosion resistance.

AAAC-IEC61089							
Cross-section	Area	Stranding No. & Wire No.s		Approx. Overall Dia.	Approx. Weight	Rated strength	Max. D.C. resistance at 20°C
		No.s	mm				
mm ²		No.s	mm	mm	Kg/km	kN	Ω/km
28.8		7	2.29	6.87	78.7	8.49	1.1453
46		7	2.89	8.67	125.9	13.58	0.7158
115		19	2.78	13.9	316.3	33.95	0.2877
460		37	3.98	27.86	1268.4	135.81	0.0721
1036		91	3.81	41.91	2861.1	305.58	0.0321
1439		91	4.49	49.39	3973.7	424.41	0.0231

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AAAC-ASTM B399								
Code Name	Conductor size		Stranding No. & Wire No.s		Approx. Overall Dia.	Approx. Weight	Rated strength	Max. D.C. resistance at 20°C
	AWG (MCM)	mm ²	No.s	mm	mm	Kg/km	Kn	Ω/km
Alton	48.69(4)	24.67	7	2.12	6.36	68	7.8	1.586
Azusa	123.3(1/0)	62.46	7	3.37	10.11	172	19.8	0.5365
Alliance	246.9 (4/0)	125.1	7	4.77	14.31	345	38.1	0.2678
Butte	312.8	158.5	19	3.26	16.3	437	48.8	0.2112
Canton	394.5	199	19	3.66	18.3	551	59	0.1676
	450	228	19	3.91	19.55	629	67.2	0.

AAAC-BS3242								
Code Name	Nominal Cross-section Area	Calculated Cross-section Area	Stranding No. & Wire No.s		Approx. Overall Dia.	Approx. Weight	Rated Strength	D.C. Resistance at 20°C
	mm ²	mm ²	No.s	mm	mm	Kg/km	Kn	Ω/km
Hazel	50	59.87	7	3.3	9.9	165	16.8	0.5498
	70	84.05	7	3.91	11.73	232	23.5	0.3917
Ash	150	180.7	19	3.48	17.4	498	50.6	0.1831
Upas	300	362.1	37	3.53	24.71	998	101.4	0.09156
Walnut	350	421.8	37	3.81	26.67	1163	118.1	0.0786
Araucaria	700	821.1	61	4.14	37.26	2264	229.8	0.04047

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AAAC-NFC34125							
Code	Cross-section	Area	Stranding No	Single wire dia.	Approx. overall dia.	Approx. weight	Rated tensile strength
	mm ²		No.s	mm	mm	kg/km	KN
55	54.6		7	3.15	9.45	149	17.75
153	152.8		19	3.2	16	417	49.66
323	312.6		37	3.28	22.96	853	101.6
475	475.4		61	3.15	28.35	1296	154.51
621	620.9		61	3.6	32.4	1693	201.79
926	926.3		91	3.6	32.4	2526	301.05