



Contact Us:

E-mail:info@qingzhou-cable.com

Phone/Whatsapp/WeChat:+86 18625503172

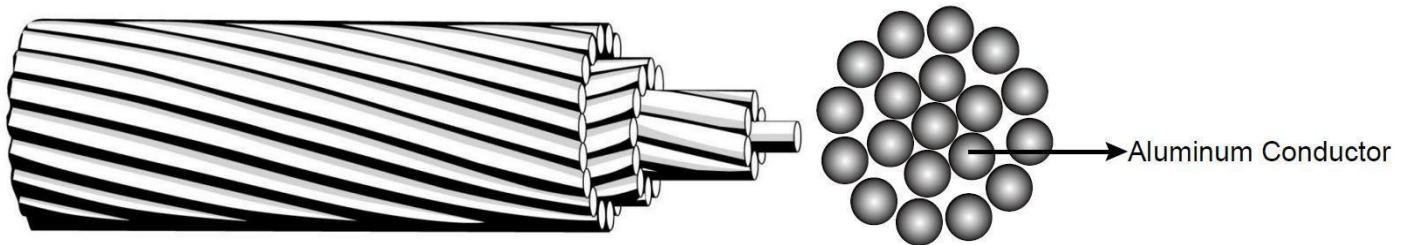
www.qingzhou-cable.com

German DIN 48201 Part 5 Standard All Aluminum Conductor (AAC) Cables bare

Application

AAC conductor is also known as aluminum stranded conductor which are used in urban areas where spans are usually short but high conductivity is required and are in common use on overhead lines for in low, medium and high voltage. The excellent corrosion resistance of aluminium has made AAC a conductor of choice in coastal areas. Although aluminium-to-copper connections can be made, it is better to use aluminium conductors for service connections, as various forms of covered cable are available for this purpose.

Construction



Concentric lay stranded Aluminium Conductor (AAC) is manufactured from electrolytically refined aluminium with a minimum purity of 99.7%. and made up of one or more strands of hard drawn 1350 aluminum alloy.

Electrical Properties

Density:20°C	2.703 kg/dm
Temperature Coefficient:20°C	0.00403 (°C)
Resistivity:20°C	0.028264
Linear Expansivity	23 x10 ⁻⁶ (°C)

Service Conditions



Contact Us:

E-mail:info@qingzhou-cable.com

Phone/Whatsapp/WeChat:+86 18625503172

www.qingzhou-cable.com

Ambient Temperature	-5°C - 50°C
Wind Pressure	80 - 130kg/m ²
Seismic Acceleration	0.12 - 0.05g
Isokeraunic Level	10 - 18
Relative Humidity	5 - 100%

Construction Parameters

DIN 48201 Part 5

Nominal Area		Stranding	Overall Diameter	Weight	Rated Strength	Electrical Resistance	Current Rating*
Nominal	Theorical						
mm ²	mm ²	No.×mm	mm	kg/km	KN	Ω/Km	A
16	15.89	7/1.70	5.1	43	2.84	1.8022	83
25	24.25	7/2.10	6.3	66	4.17	1.181	108
35	34.36	7/2.50	7.5	94	5.78	0.8333	134
50	49.48	7/3.00	9	135	7.94	0.5787	168
50	48.35	19/1.80	9	133	8.45	0.5951	166
70	65.81	19/2.10	10.5	181	11.32	0.4372	200
95	93.27	19/2.50	12.5	256	15.68	0.3085	248
120	116.99	19/2.80	14	322	18.78	0.2459	285
150	147.11	37/2.25	15.8	406	25.3	0.196	328
185	181.62	37/2.50	17.5	500	30.54	0.1588	373
240	242.54	61/2.25	20.3	670	39.51	0.1191	445
300	299.43	61/2.50	22.5	827	47.7	0.0965	506
400	400.14	61/2.89	26	1104	60.86	0.0722	602
500	499.83	61/3.23	29.1	1379	74.67	0.0578	688
625*	626.2	91/2.96	32.6	1732	95.25	0.0462	786



Contact Us:

[E-mail:info@qingzhou-cable.com](mailto:info@qingzhou-cable.com)

[Phone/Whatsapp/WeChat:+86 18625503172](tel:+8618625503172)

www.qingzhou-cable.com

800*	802.09	91/3.35	36.9	2218	118.39	0.036	907
1000*	999.71	91/3.74	41.1	2767	145.76	0.0289	1026

* The items marked with "*" are not in our current product range and the details are for information only.

(*) Note: The values of current rating mentioned in above Table are based on wind velocity of 0.6 metre/second, solar heat radiation of 1200 watt/metre², ambient temperature of 50° C & conductor temperature of 80°C.

Technical Data

Numbers of Wires	Final Modules of Elasticity		Coefficient of linear Expansion	
	Kg/mm ²	lb/in ²	1/Co	1/Fo
7	6000	8.5 x10 ⁶	23.0 x10 ⁻⁶	112.8 x10 ⁻⁶
19	5700	8.1 x10 ⁶	23.0 x10 ⁻⁶	112.8 x10 ⁻⁶
37	5700	8.1 x10 ⁶	23.0 x10 ⁻⁶	112.8 x10 ⁻⁶
61	5500	7.8 x10 ⁶	23.0 x10 ⁻⁶	112.8 x10 ⁻⁶
91	5500	7.8 x10 ⁶	23.0 x10 ⁻⁶	112.8 x10 ⁻⁶