



Contact Us:

E-mail:info@qingzhou-cable.com

Phone/Whatsapp/WeChat:+86 18625503172

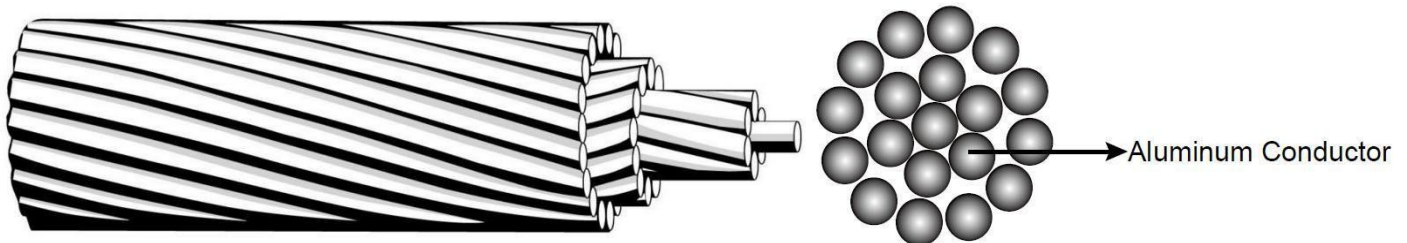
www.qingzhou-cable.com

British BS 215 Part 1 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

BS 215 Part 1

Code	Nominal Area		Stranding	Overall Diameter	Weight	Rated Strength	Electrical Resistance	Current Rating*
	Nominal	Theoretical						
	mm ²	mm ²	No.×mm	mm	kg/km	KN	Ω/Km	A
Midge	22	23.33	7/2.06	6.18	64	3.99	1.227	106
Gnat	25	26.8	7/2.21	6.6	73.8	4.83	1.0643	122
Mosquito	35	37	7/2.59	7.8	102.1	6.27	0.7749	141
Ladybird	40	42.8	7/2.79	8.4	117.9	7.28	0.6678	157
Ant	50	52.83	7/3.1	9.3	145	8.28	0.5419	175
Fly	60	63.55	7/3.4	10.2	174	9.9	0.4505	196
Wasp	100	106	7/4.39	13.17	290	16	0.2702	268
Hornet	150	157.6	19/3.25	16.25	434	25.7	0.1825	342
Charfer	200	213.2	19/3.78	18.9	587	35.4	0.1349	412
Cockroach	250	265.7	19/4.22	21.1	731	40.4	0.1083	471
Butterfly	300	322.7	19/4.65	23.25	888	48.75	0.08916	530
Centipede	400	415.2	37/3.78	26.46	1145	63.1	0.06944	616
Maybug	475	486,1	37/4,09	28,6	1342	0.05571	0,05900	740
Skorpion	500	529,8	37/4,27	29,9	1460	0.04916	0,05400	887
Cicada	600	628,3	37/4,65	32,6	1733	0.03423	0,04500	1056



Contact Us:

E-mail: info@qingzhou-cable.com

Phone/Whatsapp/WeChat: +86 18625503172

www.qingzhou-cable.com

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
AL				
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