

# ACSR Aerial Conductor



## Aluminium Conductor Steel Reinforced Aerial Conductor.



### Construction: ACSR (Aluminium Conductor Steel Reinforced)

This aerial conductor features a steel core, available in either wire or strand form, encased by one or more layers of aluminium 1350. Known for its exceptional tensile strength, ACSR is widely used in applications that demand long spans.

Standards: BS215 Part 2

Code Name	Nominal Aluminium Area (mm <sup>2</sup> )	Stranding and Wire Diameter (No./mm)		Cross Sectional Area (mm <sup>2</sup> )			Approx. Overall Diameter (mm)	Approx. Weight (kg/km)	Calculated Breaking Load (kN)	D. C. Resistance at 20°C (Ω/km)	Final Modulus of Elasticity (GPa)	Coefficient of Linear Expansion (/°C x10 <sup>-6</sup> )
		AL	ST	AL	ST	Total						
Squirrel	20	6/2.11	1/2.11	20.98	3.50	24.48	6.33	84.8	7.91	1.368	79	19.3
Gopher	25	6/2.36	1/2.36	26.25	4.37	30.62	7.08	106.1	9.60	1.093	79	19.3
Weasel	30	6/2.59	1/2.59	31.61	5.27	36.88	7.77	127.8	11.44	0.9077	79	19.3
Ferret	40	6/3.00	1/3.00	42.41	7.07	49.48	9.00	171.5	15.23	0.6766	79	19.3
Rabbit	50	6/3.35	1/3.35	52.88	8.81	61.69	10.05	213.9	18.40	0.5426	79	19.3
Mink	60	6/3.66	1/3.66	63.13	10.52	73.65	10.98	255.3	21.80	0.4546	79	19.3
Skunk	60	12/2.59	7/2.59	63.22	36.88	100.1	12.95	463.6	52.92	0.4568	105	15.3
Horse	70	12/2.79	7/2.79	73.37	42.80	116.2	13.95	538.1	61.15	0.3936	105	15.3
Raccoon	70	6/4.09	1/4.09	78.83	13.14	91.97	12.27	318.8	27.07	0.3640	79	19.3
Dog	100	6/4.72	7/1.57	105.0	13.55	118.6	14.15	394.3	32.68	0.2733	75	19.3
Wolf	150	30/2.59	7/2.59	158.1	36.88	195.0	18.13	725.7	69.23	0.1828	80	18.9
Dingo	150	18/3.35	1/3.35	158.7	8.81	167.5	16.75	505.7	35.71	0.1815	66	21.2
Lynx	175	30/2.79	7/2.79	183.4	42.80	226.2	19.53	842.2	79.79	0.1576	80	18.9
Caracal	175	18/3.61	1/3.61	184.2	10.24	194.4	18.05	587.2	41.11	0.1563	66	21.2
Panther	200	30/3.00	7/3.00	212.1	49.48	261.6	21.00	973.7	92.12	0.1363	80	18.9
Jaguar	200	18/3.86	1/3.86	210.6	11.70	222.3	19.30	671.4	46.57	0.1367	66	21.2
Bear	250	30/3.35	7/3.35	264.4	61.70	326.1	23.45	1214	111.2	0.1093	80	18.9
Goat	300	30/3.71	7/3.71	324.3	75.67	400.0	25.97	1489	135.8	0.08910	80	18.9
Bison	350	54/3.00	7/3.00	381.7	49.48	431.2	27.00	1443	120.9	0.07576	69	20.6
Zebra	400	54/3.18	7/3.18	428.9	55.59	484.5	28.62	1621	131.9	0.06741	69	20.6
Camel	450	54/3.35	7/3.35	476.0	61.70	537.7	30.15	1799	145.9	0.06073	69	20.6

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of ICSLTD is indicative only and shall not be binding on ICSLTD or be treated as constituting a representation on the part of ICSLTD.

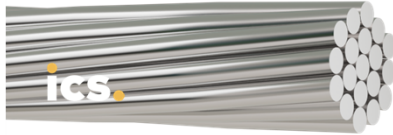
# AAC Aerial Conductor



## All Aluminium Conductor Steel Reinforced Aerial Conductor.

**Construction:** Conductors such as AAC and AAAC, cables are extensively used in power transmission lines across various voltage levels. These cables are favoured for their simple structure, ease of installation and maintenance, and cost-effective, high-capacity transmission. Additionally, they are well-suited for installation across rivers, valleys and other locations with unique geographical features.

**Standards:** BS215 Part 2

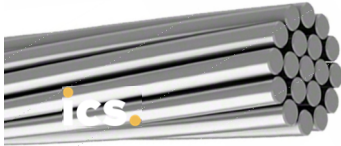


Part Number	Nominal C.S.A mm <sup>2</sup>	Strand/Wire Diameter No/mm	Nominal	Approx. Mass kg/km	Minimum Breaking Load kN	Maximum D. C. Resistance at 20°C Ω/km
			O. D. mm			
MIDGE	23.3	7/2.06	6.2	63.9	4.19	1.225
NAMU	24.5	7/2.11	6.3	67	4.2	1.17
GNAT	26.9	7/2.21	6.6	73.5	4.83	1.064
POKO	30.6	7/2.36	7.1	83.8	5.09	0.935
MOSQUITO	36.9	7/2.59	7.8	101	6.27	0.775
LADYBIRD	42.8	7/2.79	8.4	117.2	7.28	0.668
KUTU	49.5	7/3.00	9	135.5	7.99	0.579
ANT	52.8	7/3.10	9.3	144.7	8.72	0.541
FLY	63.6	7/3.40	10.2	174	10.49	0.45
RANGO	73.6	7/3.66	11	201.7	11.78	0.389
EARWIG	78.6	7/3.78	11.3	215.1	12.57	0.364
GRASSHOPPER	84.1	7/3.91	11.7	230.1	13.45	0.341
CLEGG	95.6	7/4.17	12.5	261.8	15.3	0.299
WASP	106	7/4.39	13.2	290.1	16.95	0.27
BEETLE	106.4	19/2.67	13.4	292.7	18.08	0.27
WEKE	122.5	7/4.72	14.2	335.4	18.62	0.234
BEE	132	7/4.90	14.7	361.4	21.12	0.217
CRICKET	157.9	7/5.36	16.1	432.5	23.9	0.181
HORNET	157.6	19/3.25	16.3	433.7	26.01	0.182
WETA	167.5	19/3.35	16.8	460.8	26.25	0.172
CATERPILLAR	185.9	19/3.53	17.7	511.6	29.75	0.155
CHAFER	213.2	19/3.78	18.9	586.6	34.12	0.135
SPIDER	237.6	19/3.99	20	653.6	38.01	0.121
COCKROACH	265.7	19/4.22	21.1	731.2	42.52	0.108
BUTTERFLY	322.7	19/4.65	23.3	887.8	51.63	0.0891
MOTH	373.1	19/5.00	25	1026.4	59.69	0.077
DRONE	372.4	37/3.58	25.1	1026.8	59.59	0.0774
CENTIPEDE	415.2	37/3.78	26.5	1144.8	66.43	0.0695
MAYBUG	486.1	37/4.09	28.6	1340.2	77.78	0.0593
SCORPION	529.8	37/4.27	29.9	1460.8	84.77	0.0544
CICADA	628.3	37/4.65	32.6	1732.4	100.54	0.0459

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# AAAC Aerial Conductor

## All Aluminium Alloy Conductor



**Construction:** Conductors such as AAC and AAAC, cables are extensively used in power transmission lines across various voltage levels. These cables are favoured for their simple structure, ease of installation and maintenance, and cost-effective, high-capacity transmission. Additionally, they are well-suited for installation across rivers, valleys and other locations with unique geographical features.

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Product code	Strand / wire	Cross sectional area	Overall diameter App.	Net weight	Min breaking strength	Max. DC resistance of conductor at 20°C
	No/mm	No/ mm	[mm]	App. [kg/km]	kN	Ω/km
CHLORINE	7/2.50	34.4	7.5	94.3	8.2	0.864
CHROMIUM	7/2.75	41.6	8.3	113	9.9	0.713
FLOURINE	7/3.00	49.5	9	135	11.8	0.601
HELIUM	7/3.75	77.3	11.3	212	17.6	0.383
HYDROGEN	7/4.5	111	13.5	304	24.3	0.266
IODINE	7/4.75	124	14.3	339	27.1	0.239
KRYPTON	19/3.25	158	16.3	433	37.4	0.189
LUTETIUM	19/3.5	183	17.5	503	41.7	0.163
NEON	19/3.75	210	18.8	576	47.8	0.142
NITROGEN	37/3.00	262	21	721	62.2	0.114
NOBELIUM	37/3.25	307	22.8	845	72.8	0.0973
OXYGEN	19/4.75	337	23.8	924	73.6	0.0884
PHOSPHORUS	37/3.75	409	26.3	1120	93.1	0.0731
RHODIUM	61/3.00	431	27	1192	97	0.0694
SLELNIUM	61/3.25	506	29.3	1400	114	0.0592
SILICON	61/3.5	587	31.5	1620	127	0.0511
SULPHUR	61/3.75	674	33.8	1860	145	0.0444
XENON	91/4.5	1450	49.5	4010	300	0.0207