

ALL ALUMINIUM CONDUCTOR (AAC)

APPLICATION

All Aluminium Conductor are the favoured type for use on relatively short spans, particularly low and medium voltage distribution lines.

STANDARD

BS 215 part-1
BDS 1036
IEC 61089

CONSTRUCTION

Conductor: Stranded Aluminium wire to BS 2627



PHYSICAL DATA						TECHNICAL DATA		
Code Name	Nominal Aluminium Area	Total Area	No. of Strands & Diameter of Wire	Approx. Overall Diameter	Approx. weight of cable	Nominal Breaking Load	Maximum D.C resistance of conductor at 20 °C	Current rating at 35 °C ambient temp.
	mm ²	mm ²	no./mm	mm	Kg/Km	kgf	W/km	Amp
MIDG	22	23.3	7/2.06	6.2	64	408	1.227	114
APHIS	25	26.4	3/3.35	7.2	73	419	1.081	139
GNAT	25	26.9	7/2.21	6.6	74	468	1.068	124
WEEVIA	30	31.6	3/3.66	7.8	87	496	0.9082	144
MOSQUITO	35	36.9	7/2.59	7.8	102	617	0.7731	147
LADYBIRD	40	42.8	7/2.79	8.4	118	701	0.6694	159
ANT	50	52.8	7/3.10	9.3	145	846	0.5419	181
FLY	60	63.6	7/3.40	10.2	174	1010	0.4505	199
BLUEBOTTLE	70	73.6	7/3.66	11.0	203	1156	0.3884	219
EARWIG	75	78.6	7/3.78	11.4	216	1218	0.3645	227
GRASSHOPPER	80	84.1	7/3.91	11.7	232	1303	0.3405	238
CLEGG	90	95.6	7/4.17	12.5	264	1482	0.2994	256
WASP	100	106.0	7/4.39	13.2	290	1632	0.2702	271
BEETLE	100	106.4	19/ 2.67	13.4	293.3	1776	0.2699	274
BEE	125	132.0	7/4.90	14.7	363.9	2033	0.2169	308
CRICKET	150	157.9	7/5.36	16.1	435.5	2632	0.1814	342
HORNET	150	157.6	19/3.25	16.3	434.6	2519	0.1825	346
CATERPILLER	175	185.9	19/3.53	17.7	412.7	2920	0.1547	380
CHAFER	200	213.2	19/3.78	18.9	578.9	3304	0.1349	414
SPIDER	225	237.0	19/3.99	20.0	655	3672	0.1214	439
COCKROACH	250	265.7	19/4.22	21.1	732.7	4120	0.1083	470
BUTTERFLY	300	322.7	19/4.65	23.3	889.6	4966	0.08916	528
MOTH	350	373.1	19/5.00	25.0	1028.6	5748	0.07709	572
DRONE	350	372.4	37/3.58	25.1	1026.8	5858	0.07723	572
LOCUST	400	428.7	19/5.36	26.8	1182	6601	0.06714	626
CENTIPED	400	415.2	37/3.78	26.5	1144.8	6434	0.06944	619
MAYBUG	450	486.1	37/4.09	28.6	1340.2	7547	0.05921	676
SCORPION	500	529.8	37/4.27	29.9	1460.8	8156	0.05445	710
CICADA	600	628.3	37/4.65	32.6	1732.4	9682	0.04587	784
TARANTULA	750	793.9	37/5.23	36.6	2191.5	12247	0.03628	899