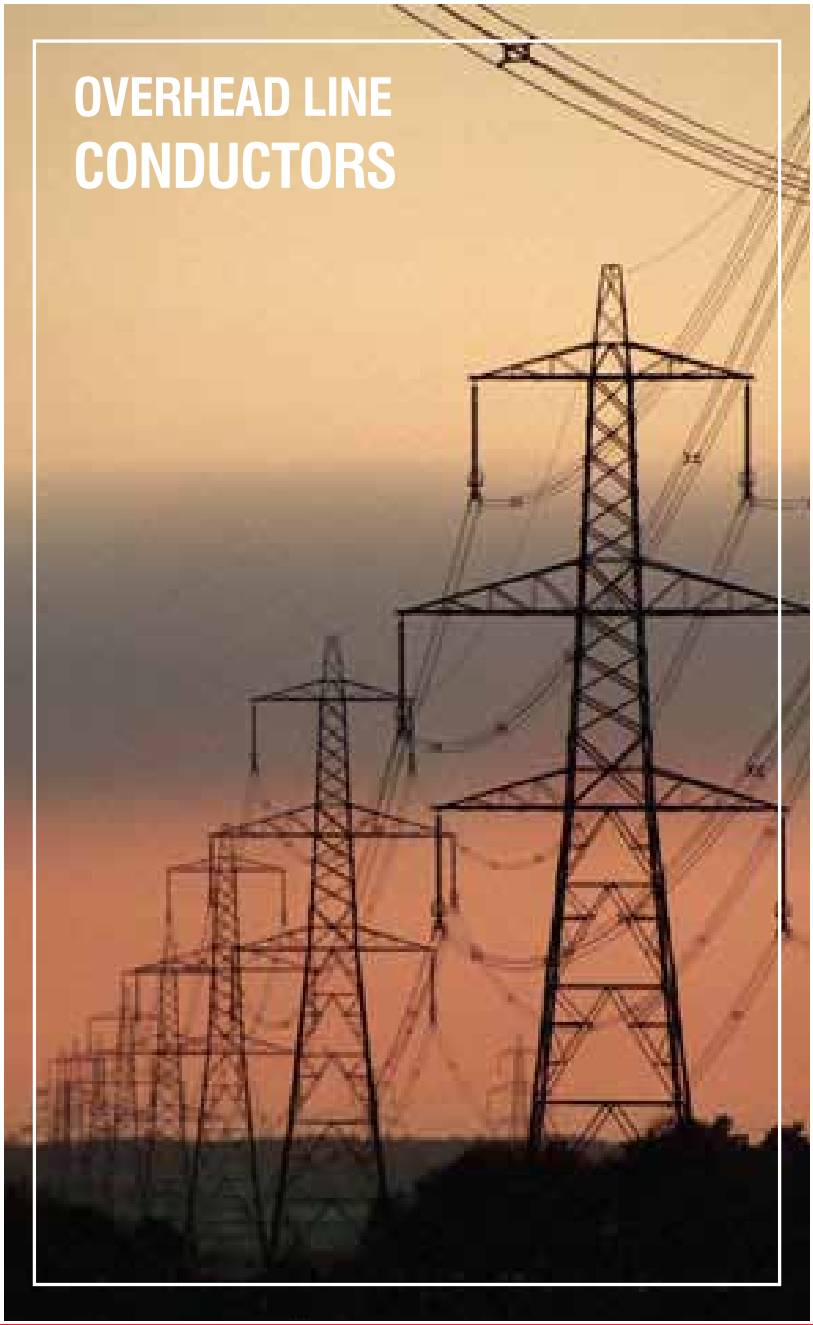


WE KNOW EXACTLY WHERE WE WANT TO GO BECAUSE OUR CUSTOMERS WILL SHOW US THE WAY
JERRE STEAD, CEO, AT&T

CONDUCTORS OF OUR MANUFACTURE

COPPER, ALUMINIUM, ALUMINIUM ALLOY OVERHEAD LINE CONDUCTORS:

BS 215 Part 1, BS 215 Part 2, ASTM B231, ASTM B 232, NFC 34-120, NFC 34-125, IEC 61089, BS 7884, BS 3242, ECG E-9

AAC/COHL
7-wire
circular stranded

AAC/COHL
19-wire
circular stranded

AAC/AAAC
37-wire
circular stranded

ACSR 19-wire
18AL/1GSW

APPLICATION:
POWER DISTRIBUTION

ALUMINIUM AND COPPER BINDING WIRES
BS 7884, IEC 61089
ECG E-11 Specification

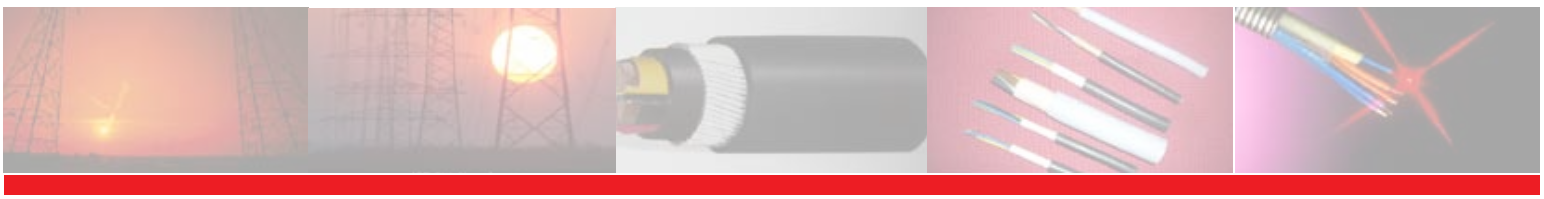
APPLICATION:
BINDING OF CONDUCTORS AND INSULATORS

ALL ALUMINIUM CONDUCTOR (AAC)

BS 215 PART 1

Nominal cross sectional area	No of wires & wire diameter	Actual area	Overall diameter	Weight	Calculated breaking Load	Max d.c. resistance @20°C
mm²	mm	mm²	mm	kg/km	kN	Ohm/km
22	7/2.06	23.33	6.18	64	3.99	1.227
50	7/3.10	52.83	9.3	145	8.28	0.5419
60	7/3.40	63.55	10.2	174	9.9	0.4505
100	7/4.39	106	13.71	290	16.00	0.2702
150	19/3.25	157.6	16.25	434	25.70	0.1825
200	19/3.78	213.2	18.9	587	32.40	0.1349
250	19/4.22	265.7	21.1	731	40.40	0.1083
300	19/4.65	322.7	23.25	888	48.75	0.08916
400	37/3.78	415.2	26.46	1145	63.10	0.06944

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALL ALUMINIUM CONDUCTOR (AAC)

IEC 61089

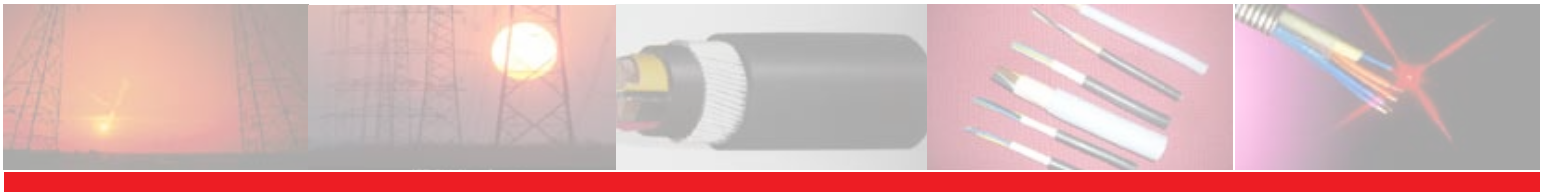
Code number	Nominal cross sectional area	Number of Wires	Diameter		Weight	Rated strength	Max. d.c. resistance @20°C
			Wire	Conductor			
	mm²		mm	mm	kg/km	kN	Ohm/km
10	10	7	1.35	4.05	27.40	1.95	2.8633
16	16	7	1.71	5.12	43.80	3.04	1.7896
25	25	7	2.13	6.40	68.40	4.50	1.1453
40	40	7	2.70	8.09	109.40	6.80	0.7158
63	63	7	3.39	10.20	172.30	10.39	0.4545
100	100	19	2.59	12.90	274.80	17.00	0.2377
125	125	19	2.89	14.50	343.60	21.25	0.2302
160	160	19	3.27	16.40	439.80	26.40	0.1798
200	200	19	3.66	18.30	549.70	32.00	0.1439
250	250	19	4.09	20.50	687.10	40.00	0.1151
315	315	37	3.29	23.03	867.9	51.97	0.0916
400	400	37	3.71	26.00	1102.0	64.00	0.0721
450	450	37	3.94	27.50	1239.8	72.00	0.0641
500	500	37	4.15	29.00	1377.6	80.00	0.0577
560	560	37	4.39	30.70	1542.9	89.60	0.0515
630	630	61	3.63	32.60	1738.3	100.80	0.0458

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALL ALUMINIIUM CONDUCTOR (AAC)
ASTM B 231

Code name	No of wires & wire diameter	Actual area	Overall diameter	Weight	Calculated Breaking Load		Max. d.c.resistance @20°C
					Wire	Conductor	
	mm	mm²	mm	kg / km	kgf	kN	Ohm/km
Peachbell	7/1.55	13.21	4.65	36	254	2.49	2.175
Rose	7/1.96	21.12	5.88	58	399	3.91	1.361
Iris	7/2.47	33.54	7.41	92	611	5.99	0.8568
Pansy	7/2.78	42.49	8.34	117	746	7.31	0.6763
Poppy	7.3.12	53.52	9.36	148	903	8.86	0.5369
Aster	7/3.50	67.35	10.5	186	1136	11.14	0.4267
Phlox	7/3.93	84.91	11.79	234	1375	13.48	0.3384
Oxlip	7/4.42	107.4	13.26	296	1740	17.06	0.2676
Sneezewort	7/4.80	126.7	14.4	349	2052	20.12	0.2268
Valerian	19/2.91	126.4	14.55	348	2107	20.66	0.2273
Daisy	7/4.96	135.3	14.88	373	2191	21.49	0.2124
Laurel	19/3.01	135.2	15.05	373	2254	22.10	0.2125
Peony	19/3.19	151.9	15.95	419	2482	24.34	0.1892
Tulip	19/3.38	170.5	16.9	470	2787	27.33	0.1685
Daffodil	19/3.45	177.6	17.25	490	2903	28.47	0.1618
Canna	19/3.68	202.1	18.4	557	3237	31.74	0.1422
Goldentuft	19/3.91	228.1	19.55	629	3580	35.11	0.1260
Cosmos	19/4.02	241.2	20.1	665	3784	37.11	0.1191
Zinna	19/4.12	253.3	20.6	698	3975	38.98	0.1134
Dahlia	19/4.35	282.4	21.75	779	4431	43.45	0.1018

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

BS 215 PART 2

Nominal cross sectional area	No of wires & wire diameter		Sectional Area of aluminium	Total sectional area	Overall diameter	Total Weight	Calculated breaking load	Max. d.c. resistance @20°C
	Aluminium	Steel						
mm²	mm	mm	mm²	mm²	mm	kg/km	kN	Ohm/km
25	6/2.36	1/2.36	26.25	30.62	7.08	106	9.61	1.093
30	6/2.59	1/2.59	31.61	36.88	7.77	128	11.45	0.9077
40	6/3.00	1/3.00	42.41	49.48	9	172	15.2	0.6766
50	6/3.35	1/3.35	52.88	61.7	10.05	214	18.35	0.5426
70	12/2.79	7/2.79	73.37	116.2	13.95	538	61.2	0.3936
100	6/4.72	7/1.57	105	118.6	14.15	394	32.7	0.2733
150	30/2.59	7/2.59	158.1	194.9	18.13	726	69.2	0.1828
150	18/3.35	1/3.35	158.7	167.5	16.75	506	35.7	0.1815
175	30/2.79	7/2.79	183.4	226.2	19.53	842	79.8	0.1576
175	18/3.61	1/3,61	184.3	194.5	18.05	587	41.1	0.1563
200	30/3.00	7/3.00	212.1	261.5	21	974	92.25	0.1363
200	18/3.86	1/3.86	210.6	222.3	19.30	671	46.55	0.1367
400	54/3.18	7/3.18	428.9	484.5	28.62	1621	131.9	0.0674

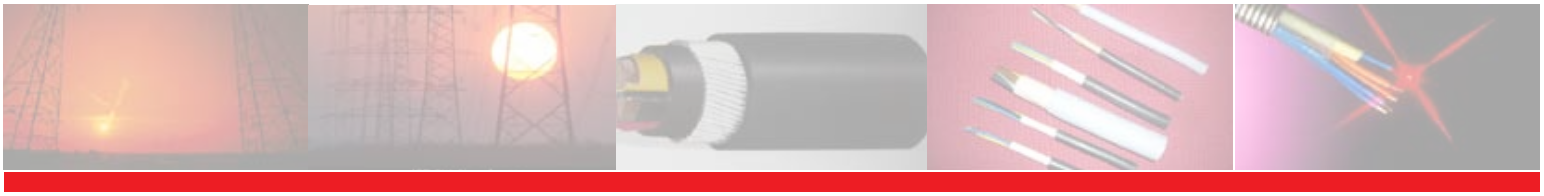
FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

ASTM B 232

Code name	No of wires & wire diameter		Actual area			Overall diameter	Weight		Calculated breaking load		Max. d.c. resis-tance @20°C
	Alumini-um	Steel	Alumini-um	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Turkey	6/1.68	1/1.68	13.3	2.22	15.52	5.04	17	54	540	5.29	2.15
Thrush	6/1.89	1/1.89	16.83	2.81	19.64	5.67	22	68	678	6.65	1.699
Swan	6/2.12	1/2.12	21.18	3.53	24.71	6.36	27	85	846	8.3	1.35
Swanate	7/1.96	1/2.61	21.12	5.35	26.47	6.53	42	100	1067	10.46	1.354
Swallow	6/2.38	1/2.38	26.69	4.45	31.14	7.14	35	108	1042	10.22	1.071
Sparrow	6/2.67	1/2.67	33.59	5.6	39.19	8.01	44	136	1289	12.64	0.8513
Sparate	7/2.47	1/3.30	33.54	8.55	42.09	8.24	67	159	1650	16.18	0.8526
Robin	6/3.00	1/3.0	42.41	7.07	49.48	9	55	171	1612	15.81	0.6742
Raven	6/3.37	1/3.37	53.52	8.92	62.44	10.11	69	216	1987	19.49	0.5343
Quail	6/3.78	1/3.78	67.33	11.22	78.55	11.34	87	272	2401	23.55	0.4247
Pigeon	6/4.25	1/4.25	85.12	14.19	99.31	12.75	110	334	3006	29.48	0.3359
Penguin	6/4.77	1/4.77	107.2	17.87	125.1	14.31	139	433	3787	37.14	0.2667
Wax-wing	18/3.09	1/3.09	135	7.5	142.5	15.45	58	430	3118	30.58	0.2129
Owl	6/5.36	7/1.79	135.4	17.62	153	16.09	138	509	4406	43.21	0.2112
Par-tridge	26/2.57	7/2.0	138.9	21.99	156.9	16.28	172	546	5113	50.14	0.2141
Ostrich	26/2.73	7/2.12	152.2	24.71	176.9	17.28	193	615	5756	56.45	0.1897
Merlin	18/3.47	1/3.47	170.2	9.46	179.7	17.35	74	543	3931	38.55	0.1688
Linnet	26/2.89	7/2.25	170.6	27.83	198.4	18.31	217	690	6413	62.89	0.1693

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
ASTM B 232 (CON'TD)

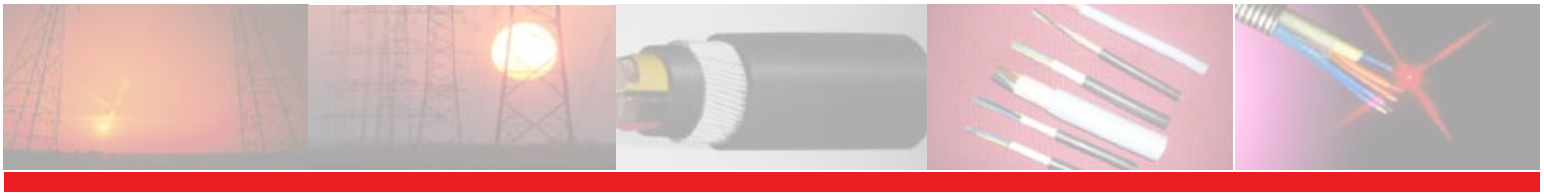
Code name	No of wires & wire diameter		Actual area			Overall diam-eter	Weight		Calculated breaking load		Max. d.c. re-sistance @20°C
	Alumin-ium	Steel	Alumini-um	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Oriole	30/2.69	7/2.69	170.5	39.78	210.3	18.83	311	785	7866	77.14	0.1698
Chika-dee	18/3.77	1/3.77	200.9	11.16	212.1	18.85	87	641	4500	44.13	0.143
Brant	24/3.27	7/2.18	201.6	26.13	227.7	19.62	204	763	6645	65.16	0.1432
Ibis	26/3.14	7/2.44	201.3	32.73	234	19.88	256	814	7378	72.35	0.1434
Lark	30/2.92	7/2.92	200.9	46.88	247.8	20.44	367	925	9203	90.25	0.1441
Pelican	18/4.14	1/4.14	242.3	13.46	255.8	20.7	105	773	5347	52.43	0.1186
Flicker	24/3.58	7/2.39	241.6	31.4	273	21.49	245	914	7791	76.4	0.1195
Hawk	26/3.44	7/2.67	241.6	39.19	280.8	21.77	306	975	8844	86.73	0.1195
Hen	30/3.2	7/3.2	241.3	56.3	297.6	22.4	440	1110	10784	105.75	0.12
Osprey	18/4.47	1/4.47	282.5	15.69	298.2	22.35	112	891	6233	61.12	0.1017
Parakeet	24/3.87	7/2.58	282.3	36.6	318.9	23.22	286	1068	9000	88.26	0.1023
Dove	26/3.72	7/2.89	282.6	45.92	328.5	23.55	359	1142	10260	100.62	0.1022

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
ASTM B 232 (CON'TD)

Code name	No of wires & wire diameter			Actual area		Overall diam-eter	Weight		Calculated breaking load		Max. d.c. re-sistance @20°C
	Alumin-ium	Steel	Alumini-um	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Eagle	30/3.46	7/3.46	282.1	65.82	347.9	24.22	515	1,298	12,607	123.63	0.1026
Peacock	24/4.03	7/2.69	306.1	39.78	345.9	24.19	311	1,159	9,771	95.82	0.09434
Sqab	26/3.87	7/3.01	305.8	48.81	355.6	24.51	389	1,236	11,019	108.06	0.09443
Wood-Duck	30/3.61	7/3.61	307.1	71.65	378.8	25.27	560	1,413	13,140	128.86	0.09426
Teal	30/3.61	19/2.61	307.1	69.62	376.72	25.24	545	1,398	13,568	133.06	0.09426
Martin	54/4.02	19/2.41	685.4	86.67	772.1	36.17	678	2,586	21,008	206.02	0.04234
Bobo-link	45/4.53	7/3.02	752.3	50.14	802.4	36.24	392	2,476	17,398	170.62	0.03838
Plover	54/4.14	19/2.48	726.9	91.78	818.7	37.24	718	2,742	22,264	218.33	0.03992
Nut-hatch	45/4.65	7/3.10	764.2	52.83	817	37.2	413	2,530	18,153	178.02	0.03779
Parrot	54/4.25	19/2.55	766.1	97.03	863.1	38.25	759	2,892	23,500	230.46	0.03788
Lapwing	45/4.78	7/3.18	807.5	55.6	863.1	38.22	434	2,671	19,154	187.84	0.03576
Falcon	54/4.36	19/2.62	806.2	102.4	908.6	39.26	801	3,046	24,770	242.91	0.03599
Chukar	84/3.70	19/2.22	903.2	73.54	976.7	40.7	576	3,091	23,138	226.91	0.03213
Bluebird	84/4.07	19/2.44	1093	88.84	1182	44.76	695	3,738	27,343	268.14	0.02655
Kiwi	72/4.41	7/2.94	1100	47.52	1148	44.1	371	3,433	22,635	221.97	0.02638
	76/4.43	19.2.07	1171	63.94	1235	45.79	500	3,760	25,733	252.35	0.02478
Grouse	8/2.54	1/4.24	40.54	14.12	54.66	9.32	110	221	2,359	23.13	0.7053
Petrel	12/2.34	7/2.34	51.61	30.1	81.71	11.7	235	378	4,699	46.08	0.5595

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
ASTM B 232 (CON'TD)

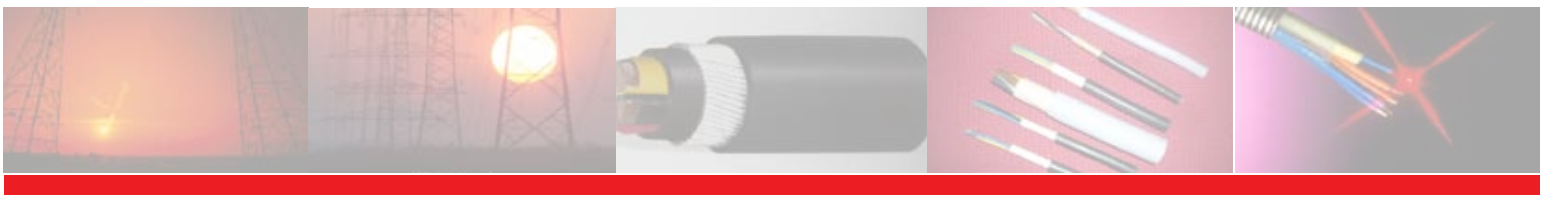
Code name	No of wires & wire diameter			Actual area		Overall diam-eter	Weight		Calculated breaking load		Max. d.c. re-sistance @20°C
	Alumin-ium	Steel	Alumini-um	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Minorca	12/2.44	7/2.44	56.11	32.73	88.84	12.2	256	411	5,110	50.11	0.5146
Leghom	12/2.69	7/2.69	68.2	39.78	108	13.45	311	500	6,164	60.44	0.4234
Guinea	12/2.92	7/2.92	80.36	46.88	127.2	14.6	367	590	7,236	70.96	0.3595
Dotterel	12/3.08	7/3.08	89.41	52.15	141.6	15.4	408	656	7,844	76.92	0.323
Dorking	12/3.20	7/3.20	96.51	56.3	152.8	16	440	707	8,468	83.04	0.2992
Cochin	12/3.37	7/3.37	107	62.44	169.4	16.85	488	784	9,391	92.09	0.2699
Brahma	16/2.86	19/2.48	102.8	91.78	194.6	18.12	721	1,006	12,871	126.2	0.2809
Kingbird	18/4.78	1/4.78	323	17.95	341	23.9	140	1,031	7,128	69.9	0.08896
Swift	36/3.38	1/3.38	323	8.97	382	23.66	70	961	6,253	61.32	0.08896
Rock	24/4.14	7/2.76	323.1	41.88	365	24.84	327	1,218	10,299	101	0.08937
Gros-beak	26/3.97	7/3.09	321.8	52.49	374.3	25.15	410	1,302	11,428	112.07	0.08973
Scoter	30/3.70	7/3.70	322.6	75.26	397.9	25.9	588	1,484	13,803	135.36	0.08973
Egret	30/3.70	19/2.22	322.6	73.54	396.1	25.9	576	1,472	14,304	140.27	0.08973
Fla-mingo	24/4.23	7/2.82	337.3	43.72	381	25.38	342	1,277	10,752	105.44	0.08561

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
ASTM B 232 (CON'TD)

Code name	No of wires & wire diameter		Actual area			Overall diameter			Weight	Calculated breaking load	Max. d.c. resistance @20°C
	Aluminium	Steel	Aluminium	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Gannet	26/4.07	7/3.16	338.3	54.9	393.2	25.76	429	1,366	11,978	117.46	0.08536
Stilt	24/4.39	7/2.92	363.3	46.88	410.2	26.32	366	1,373	11,554	113.31	0.07948
Starling	24/4.21	7/3.28	361.9	59.15	421.1	26.68	462	1,932	12,865	126.16	0.07979
Crow	54/2.92	7/2.92	361.6	46.88	408.5	26.68	366	1,368	11,753	115.26	0.07986
Red-wing	30/3.92	19/2.35	362.1	82.41	444.5	27.43	645	1,651	15,650	153.47	0.07994
Coot	36/3.77	1/3.77	401.9	11.16	413.1	26.39	87	1,195	7,580	74.33	0.0715
Cuckoo	24/4.62	7/3.08	402.3	52.15	454.5	27.72	407	1,522	12,650	124.05	0.07187
Drake	26/4.44	7/3.45	402.6	65.44	468	28.11	511	1,626	14,267	139.91	0.07172
Tern	45/3.38	7/2.25	403.8	27.83	431.6	27.03	217	1,336	10,027	98.33	0.07151
Condor	54/3.08	7/3.08	402.3	52.15	454.5	27.72	407	1,522	12,771	125.24	0.07178
Mallard	30/4.14	19/2.48	403.8	91.78	495.6	28.96	718	1,839	17,439	171.02	0.07169
Crane	54/3.23	7/3.23	442.5	57.36	499.9	29.07	448	1,678	14,046	137.74	0.06526
Ruddy	45/3.59	7/2.40	455.5	31.67	487.2	28.74	247	1,509	11,094	108.79	0.06339
Canary	54/3.28	7/3.28	456.3	59.15	515.5	29.52	462	1,726	14,484	142.04	0.06328
Catbird	36/4.14	1/4.14	484.6	13.46	498.1	28.98	105	1,441	8,986	88.12	0.0593
Rail	45/3.70	7/2.47	483.8	33.54	517.3	29.61	262	1,602	11,772	115.44	0.05969
Cardinal	54/3.38	7/3.38	484.5	62.81	547.3	30.42	490	1,832	15,381	150.84	0.0596
Tanager	36/4.30	1/4.30	522.8	14.52	537.3	30.1	113	1,554	9,694	95.06	0.05496

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
ASTM B 232 (CON'TD)

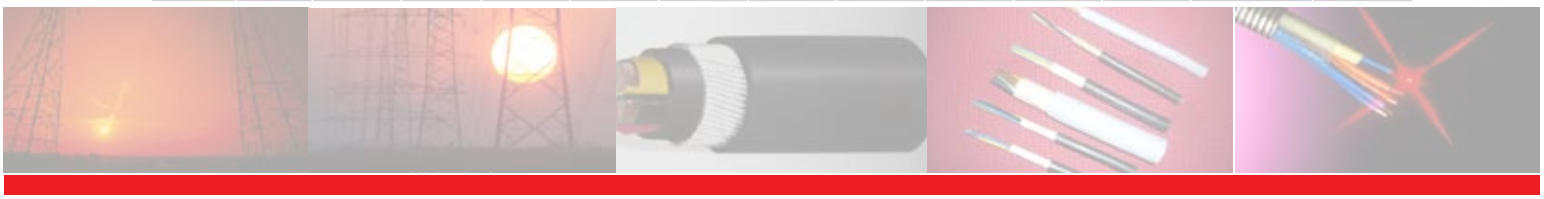
Code name	No of wires & wire diameter		Actual area			Overall diameter			Weight	Calculated breaking load	Max. d.c. resistance @20°C
	Aluminium	Steel	Aluminium	Steel	Total	mm	Steel	Total	kgf	kN	Ohm / km
	mm	mm	mm²	mm²	mm²		kg / km	kg / km			
Ortlan	45/3.85	7/2.57	523.9	36.31	560.2	30.81	284	1,736	12,587	123.35	0.05512
Curlew	54/3.51	7/3.51	522.5	67.73	590.2	31.59	529	1,977	16,586	162.65	0.05527
Bluejay	45/4.00	7/2.66	565.5	38.9	604.4	31.98	304	1,871	13,540	132.78	0.05106
Finch	54/3.65	19/2.19	565	71.57	536.6	32.85	560	2,133	17,748	174.05	0.05136
Bunting	45/4.14	7/2.76	605.8	41.88	647.7	33.12	327	2,005	14,531	142.5	0.04767
Crackle	54/3.77	19/2.27	602.8	76.89	679.7	33.97	602	2,280	19,001	186.34	0.04814
Skylark	36/4.78	1/4.78	646	17.95	664	33.46	140	1,921	11,978	117.46	0.04448
Bittern	45/4.27	7/2.85	644.4	44.66	689.1	34.17	349	2,134	15,471	151.72	0.04481
Pheasant	54/3.90	19/2.34	645.1	81.71	726.8	35.1	640	2,436	19,789	194.06	0.04498
Dipper	45/4.40	7/2.93	684.2	47.2	1.4	35.19	363	2,265	16,380	160.63	0.0422

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

IEC 61089

Code number	Steel ratio	Cross-Sectional Areas		Number of Wires		Wire Diameter			Diameter		Linear mass	Rated strength	Max. d.c. resistance @20°C
		Aluminium	Steel	Total	Aluminium	Steel	Aluminium	Steel	Core	Conductor			
	%	mm²	mm²	mm²			mm	mm	mm	mm	kg/km	kN	Ohm/km
16	17	16	2.67	18.7	6	1	1.84	1.84	1.84	5.53	64.6	6.08	1.7934
25	17	25	4.17	29.2	6	1	2.3	2.3	2.3	6.91	100.9	9.13	1.1478
40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	161.5	14.4	0.7174
63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11	254.4	21.63	0.4555
100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.8	403.8	34.33	0.2869
125	6	125	6.94	132	18	1	2.97	2.97	2.97	14.9	397.9	29.17	0.2304
125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.7	503.9	45.69	0.2310
160	6	160	8.89	169	18	1	3.36	3.36	3.36	16.8	509.3	36.18	0.1800
160	16	160	26.1	186	26	7	2.8	2.18	6.53	17.7	644.9	57.69	0.1805
200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.8	636.7	44.22	0.1440
200	16	200	32.6	233	26	7	3.13	2.43	7.3	19.8	806.2	70.13	0.1444
250	10	250	24.6	275	22	7	3.8	2.11	6.34	21.6	880.6	68.72	0.1154
250	16	250	40.7	291	26	7	3.5	2.72	8.16	22.2	1007.7	87.67	0.1155
315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.9	1039.6	79.03	0.0917
315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.9	1269.7	106.83	0.0917
400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.9	1320.1	98.36	0.0722
400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.6	1510.3	123.04	0.0723
450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.5	1485.2	107.47	0.0642
450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.3	1699.1	138.42	0.0643
500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.1	1650.2	119.41	0.0578
500	13	500	64.8	565	54	7	3.43	3.43	10.3	30.9	1887.9	153.8	0.0578
560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.8	1848.2	133.74	0.0516
560	13	560	70.9	631	54	19	3.63	2.18	10.9	32.7	2103.4	172.59	0.0516
630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.8	2079.2	150.45	0.0459
630	13	630	79.8	710	54	19	3.85	2.31	11.6	34.7	2366.3	191.77	0.0459



ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)
NFC 34-120

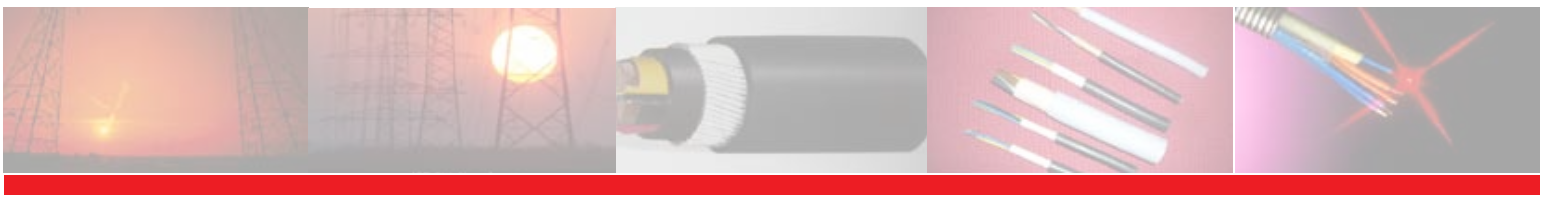
Nominal cross sectional area	No of wires & wire diameter		Actual Area		Total Cross-sectional Area	Overall diameter	Ungreased Weight		Total	Grease Weight Calculated breaking load @20°C			Max. d.c. resistance
	Al	Steel		Steel			Al	Steel		Steel	layers		
	mm	mm	mm²	mm²	mm ²	mm	kg/km	kg/km	kg/km	kg/km	kg/km	kN	Ohm/km
37.7	9/2.00	3/2.00	28.27	9.42	37.69	8.3	78	77	155	0.9	0.9	15.4	1.02
59.7	12/2.00	7/2.00	37.7	21.99	59.69	10	104	172	276	4	4	30.5	0.765
75.5	12/2.25	7/2.25	47.71	27.83	75.54	11.25	130	218	348	5.1	5.1	38.4	0.605
116.2	30/2.00	7/2.00	94.25	21.99	116.2	14	260	172	432	4	12	41.45	0.306
116.2	30/2.00	7/2.00	94.25	21.99	116.2	14	260	172	432	4	12	47.4	0.306
147.1	30/2.25	7/2.25	119.3	27.83	147.1	15.75	329	218	547	5.1	15	52	0.243
147.1	30/2.25	7/2.25	119.3	27.83	147.1	15.75	329	218	547	5.1	15	59.5	0.243
181.6	30/2.50	7/2.50	147.3	34.36	181.6	17.5	406	269	675	6.3	19	62.6	0.197
181.6	30/2.50	7/2.50	147.3	34.36	181.6	17.5	406	269	675	6.3	19	72.9	0.197
228	30/2.80	7/2.80	184.7	43.1	227.8	19.6	510	338	848	7.9	24	77.1	0.157
228	30/2.80	7/2.80	184.7	43.1	227.8	19.6	510	338	848	7.9	24	90	0.157
297	36/2.80	19/2.25	221.7	75.54	297.2	22.45	620	598	1218	15	35	139.5	0.1305
288	30/3.15	7/3.15	233.8	54.55	288.4	22.05	647	427	1074	10	30	96	0.1225
288	30/3.15	7/3.15	233.8	54.55	288.4	22.05	647	427	1074	10	30	113.2	0.1225
412	32/3.6	19/2.4	325.7	85/95	411.7	26.4	912	681	1593	17	46	169.9	0.0898
612	20/4.24	19/2.65	507	104.8	611.8	32.17	1404	837	2241	21	72	227.5	0.0566
612	42/2.61	19/2.66	507	104.8	611.8	32.17	1404	837	2241	21	72	227.5	0.0566

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

ALUMINIUM ALLOY CONDUCTOR (AAAC)
NFC 34-125

Nominal area	No of wires & wire diameter	Actual area	Overall diameter	Weight Ungreased	Grease Weight	Calculated breaking load	Max. d.c. resistance @20°C
mm²	mm	mm²	mm	kg/km	kg/km	kN	Ohm/km
22	7/2.0	21.99	6	60	0.6	7.08	1.497
34.4	7/2.5	34.36	7.5	94	1	11.07	0.958
54.6	7/3.15	54.55	9.45	149	1.5	17.57	0.6034
75.6	19/2.25	75.54	11.25	208	5.1	24.33	0.4379
117	19/2.8	117	14	322	7.9	37.68	0.2827
148	19/3.15	148.1	15.75	407	10	47.7	0.2234
181.6	37/2.5	181.6	17.5	500	19	58.48	0.1825
228	37/2.8	227.8	19.6	627	24	73.36	0.1455
288	37/3.15	288.3	22.05	794	30	92.85	0.115
366	37/3.55	366.2	24.85	1009	38	117.9	0.09053
570	61/3.45	570.2	31.05	1574	72	183.6	0.05827

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



ALUMINIUM ALLOY CONDUCTOR (AAAC)
BS 3242

Nominal area	Stranding and wire diameter	Actual area	Overall diameter	Approx. mass	Calculated breaking load	Max. d.c.resistance @20°C
mm^2	mm	mm^2	mm	kg/km	kN	Ohm/km
25	7/2.34	30.1	7.02	82	8.44	1.094
30	7/2.54	35.47	7.62	97	9.94	0.9281
40	7/2.95	47.84	8.85	131	13.4	0.688
50	7/3.30	59.87	9.9	164	16.8	0.5498
100	7/4.65	118.9	13.95	325	33.3	0.2769
150	19/3.48	180.7	17.4	497	50.65	0.183
175	19/3.76	211	18.8	580	59.1	0.1568
300	37/3.53	362.1	24.71	997	101.5	0.09155

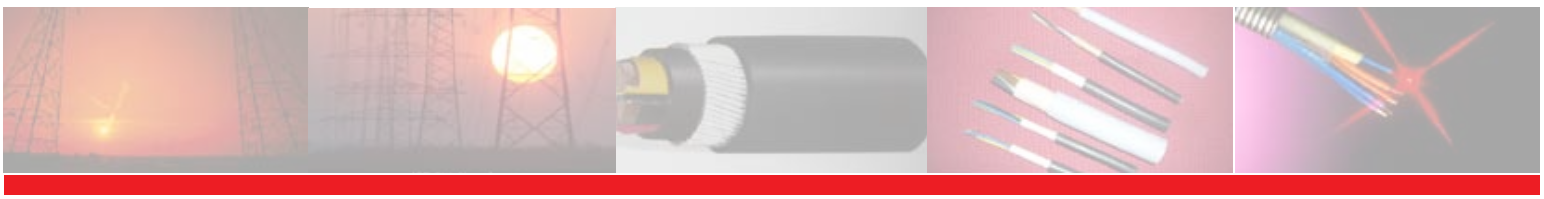
FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com

BARE ALUMINIUM OVERHEAD LINE CONDUCTOR (AAC)

ECG E-9 SPECIFICATION / BS 215 PART 1

Nominal Cross Section, mm^2	25	50	120	150	265	400
No. and diameter of wire mm	7/2.13	7/3.1	19/2.8	19/3.25	19/4.22	37/3.71
Overall Diameter, mm	6.4	9.3	14	16.3	21.10	26.0
Conductor weight, kg / km	68.4	145	322	434	731	1,102
Conductor Minimum Breaking Load after Stranding, N	4,500	8,720	19,890	26,010	45,520	64,000
Max. Conductor DC resistance at 20°C, Ohm/km	1.1453	0.5409	0.2456	0.1823	0.1081	0.0721
Modulus of Elasticity, kN/mm^2	58.85	58.85	57.0	57.0	57.0	55.0
Temperature co-efficient of linear expansion of hard-drawn aluminium (per °C)	23×10^{-6}	23×10^{-6}	23×10^{-6}	23×10^{-6}	23×10^{-6}	23×10^{-6}
Temperature co-efficient of resistance of hard-drawn aluminium (per °C)	0.004	0.004	0.004	0.004	0.004	0.004

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com



BARE COPPER OVERHEAD LINE CONDUCTOR (COHL)
ECG E-9 SPECIFICATION / BS 7884

Nominal Cross Section, mm^2	16	35	70
No. and diameter of wire mm	7/1.70	7/2.5	7/3.55
Overall Diameter, mm	5.1	7.5	10.65
Conductor weight, kg / km min	142.4	303.0	621.0
max	144.0	314.9	634.7
max	50.04	44.52	89.74
Conductor Minimum Breaking Load after Stranding, N	5,946	14,097	26,880
Conductor DC resistance at 20°C Ohm/km, min	1.128	0.5123	0.2585
max	1.154	0.5319	0.2637
Modulus of Elasticity, kN/mm^2	124	124	124
Temperature co-efficient of linear expansion of hard-drawn copper (per °C)	16×10^{-6}	16×10^{-6}	16×10^{-6}
Temperature co-efficient of resistance of hard-drawn aluminium (per °C)	0.00393	0.00393	0.00393

FOR SIZES NOT SHOWN HERE, PLEASE CONTACT - info@tropicalcables.com