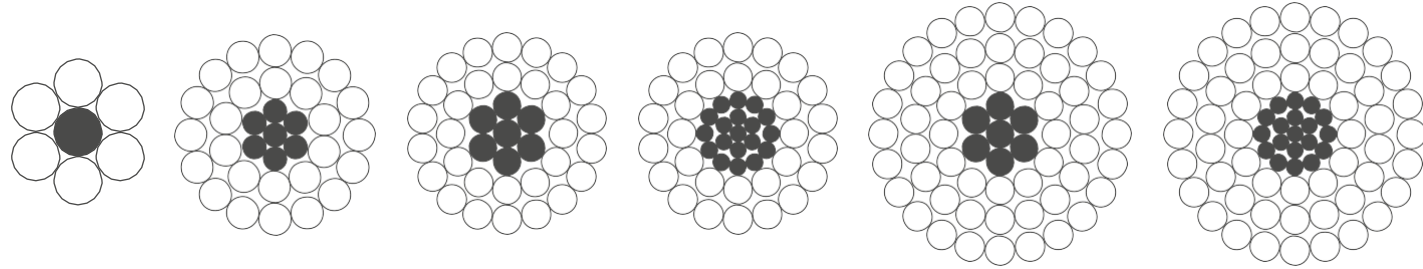


ACSR Aluminum conductors steel reinforced



These conductors are formed by several wires of aluminum and galvanized steel, stranded in concentric layers. The wires (s) which form the core are made by galvanized steel and external layer(s) are of aluminum.

Its characteristics are, low weight combined with high breaking strength making it the best solution for long spans.

Due to the great diameter of the conductor electrostatic effects of Corona Effect are reduced.

Composition	Final modulus	Coefficient of linear expansion
	kg/mm ²	°C
6+1	8,100	19.1x10 ⁻⁶
6+7	7,700	19.8x10 ⁻⁶
26+7	7,700	18.9x10 ⁻⁶
30+7	8,200	17.8x10 ⁻⁶
30+19	8,000	18.0 x10 ⁻⁶
54+7	7,000	19.3x10 ⁻⁶
54+19	6,800	19.4x10 ⁻⁶

Designation	Area			Stranding and wire diameter				Diameter		Nominal breaking load daN	Maximum DC resistance Ohm/km	Standard weight kg/km
	Alum.	Steel	Total	Aluminum		Steel		Steel core	Overall			
	mm ²	mm ²	mm ²	N°	Ø(mm)	N°	Ø(mm)	mm	mm			
LA-30	26.70	4.40	31.10	6	2.38	1	2.38	2.38	7.14	987.9	1.0749	107.9
47-AL1/8-ST1A LA-56	46.80	7.80	54.60	6	3.15	1	3.15	3.15	9.45	1,635	0.6136	189.1
67-AL1/11-ST1A LA-78	67.40	11.20	78.60	6	3.78	1	3.78	3.78	11.34	2,315	0.4261	272.3
LA-110	94.20	22.00	116.20	30	2.00	7	2.00	6.00	14.00	4,316	0.3066	432.7
LA-145	119.30	27.80	147.10	30	2.25	7	2.25	6.75	15.75	5,415	0.2422	547.7
147-AL1/34-ST1A LA-180	147.30	34.30	181.60	30	2.50	7	2.50	7.50	17.50	6,395	0.1962	676.1
242-AL1/39-ST1A LA-280Hawk	241.70	39.40	281.10	26	3.44	7	2.68	8.04	21.80	8,452	0.1194	976.6
337-AL1/44-ST1A LA-380Gull	337.30	43.70	381.00	54	2.82	7	2.82	8.46	25.38	10,666	0.0857	1,275
402-AL1/52-ST1A LA-455Condor	402.30	52.20	454.50	54	3.08	7	3.08	9.24	27.72	12,426	0.0718	1,520.9
485-AL1/63-ST1A LA-545Cardinal	484.50	62.80	547.30	54	3.38	7	3.38	10.14	30.42	14,869	0.0596	1,831.6
LA-635Finch	565.00	71.60	636.6	54	3.65	19	2.19	10.95	32.85	17,535	0.0511	2,124.7

Designation	Area		Stranding and wire diameter			Diameter				Nominal breaking load	Maximum DC resistance	Standard Weight
	Alum.	Steel	Total	Aluminium		NO OF WIRE	Diameter of steel wire	Steel core diameter	Overall			
	mm²	mm²	mm²	Nos	Ø(mm)		Ø(mm)	mm	mm			
CANNA37.7	28.27	9.42	37.69	9	2.00	3	2.00	4.30	8.30	1,540	1.020	155
CANNA59.7	37.70	21.99	59.69	12	2.00	7	2.00	6.00	10.00	3,050	0.765	276
CANNA75.5	47.71	27.83	75.54	12	2.25	7	2.25	6.75	11.25	3,840	0.605	348
CANNA116.2	94.25	21.99	116.24	30	2.00	7	2.00	6.00	14.00	4,145	0.306	432
CROCUS116.2	94.25	21.99	116.24	30	2.00	7	2.00	6.00	14.00	4,740	0.306	432
CANNA147.1	119.28	27.83	147.11	30	2.25	7	2.25	6.75	15.75	5,200	0.243	547
CROCUS147.1	119.28	27.83	147.11	30	2.25	7	2.25	6.75	15.75	5,950	0.243	547
CANNA181.6	147.26	34.36	181.62	30	2.50	7	2.50	7.50	17.50	6,260	0.197	675
CROCUS181.6	147.26	34.36	181.62	30	2.50	7	2.50	7.50	17.50	7,290	0.197	675
CANNA228	184.72	43.10	227.82	30	2.80	7	2.80	8.40	19.60	7,710	0.157	848
CROCUS228	184.72	43.10	227.82	30	2.80	7	2.80	8.40	19.60	9,000	0.157	848
CANNA288	233.8	54.55	288.35	30	3.15	7	3.15	9.45	22.05	9,600	0.1225	1,074
CROCUS288	233.80	54.55	288.35	30	3.15	7	3.15	9.45	22.05	11,320	0.1225	1,074
CROCUS297	221.67	75.54	297.21	36	2.80	19	2.25	11.25	22.45	13,950	0.1305	1,218
CROCUS412	325.72	85.95	411.67	32	3.60	19	2.40	12.00	26.40	16,960	0.0898	1,593

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ACSR Aluminum conductors steel reinforced

USASIZESASTMB232

CODENAME	Area							Stranding and wire diameter				Approximate overall diameter		Weight			Nominal breaking load		MaximumDCResistanceat20°C	CODENAME
	Aluminum			Steel		Total		Aluminum		Steel				Aluminum	Steel	Total				
	AWG or MCM	mm²	inch²	mm²	inch²	mm²	inch²	mm	inch	mm	inch	mm	inch	kg/km	kg/km	kg/km	daN	lbf	Ohm/km	
Turkey	6	13.29	0.0206	2.19	0.0034	15.48	0.0240	6/1.68	6/0.0661	1/1.68	1/0.0661	5.04	0.198	37	17	54	524	1,177	2.1586	Turkey
Swan	4	21.16	0.0328	3.55	0.0055	24.71	0.0383	6/2.12	6/0.0834	1/2.12	1/0.0834	6.36	0.25	58	27	85	832	1,870	1.3557	Swan
Swanate	4	21.16	0.0328	5.35	0.0083	26.51	0.0411	7/1.96	7/0.0772	1/2.61	1/0.1029	6.53	0.257	58	42	100	1,053	2,366	1.3557	Swanate
Sparrow	2	33.61	0.0521	5.61	0.0087	39.22	0.0608	6/2.67	6/0.1052	1/2.67	1/0.1052	8.01	0.316	92	44	136	1,270	2,854	0.8535	Sparrow
Sparate	2	33.61	0.0521	8.52	0.0132	42.13	0.0653	7/2.47	7/0.0974	1/3.30	1/0.1299	8.24	0.325	92	67	159	1,611	3,620	0.8535	Sparate
Robin	1	42.39	0.0657	7.10	0.0110	49.49	0.0767	6/3.00	6/0.1182	1/3.00	1/0.1182	9.00	0.355	116	55	171	1,585	3,562	0.6767	Robin
Raven	1/0	53.48	0.0829	8.90	0.0138	62.38	0.0967	6/3.37	6/0.1327	1/3.37	1/0.1327	10.11	0.398	147	69	216	1,932	4,342	0.5364	Raven
Quail	2/0	67.42	0.1045	11.23	0.0174	78.65	0.1219	6/3.78	6/0.1490	1/3.78	1/0.1490	11.34	0.447	185	88	273	2,362	5,308	0.4255	Quail
Pigeon	3/0	85.03	0.1318	14.19	0.0220	99.22	0.1538	6/4.25	6/0.1672	1/4.25	1/0.1672	12.75	0.502	233	110	343	2,941	6,609	0.3373	Pigeon
Penguin	4/0	107.23	0.1662	17.87	0.0277	125.10	0.1939	6/4.77	6/0.1878	1/4.77	1/0.1878	14.31	0.563	294	139	433	3,706	8,328	0.2675	Penguin
Waxwing	266.8	135.16	0.2095	7.48	0.0116	142.64	0.2211	18/3.09	18/0.1217	1/3.09	1/0.1217	15.45	0.609	373	58	431	3,027	6,800	0.2133	Waxwing
Partridge	266.8	135.16	0.2095	22.00	0.0341	157.16	0.2436	26/2.57	26/0.1013	7/2.00	7/0.0788	16.28	0.642	374	172	546	5,029	11,300	0.2143	Partridge
Ostrich	300	152.00	0.2356	24.71	0.0383	176.71	0.2740	26/2.73	26/0.1074	7/2.12	7/0.0835	17.28	0.68	421	193	614	5,652	12,700	0.1906	Ostrich
Merlin	336.4	170.45	0.2642	9.48	0.0147	179.93	0.2789	18/3.47	18/0.1367	1/3.47	1/0.1367	17.35	0.684	470	74	544	3,823	8,590	0.1691	Merlin
Linnet	336.4	170.45	0.2642	27.81	0.0430	198.26	0.3072	26/2.89	26/0.1137	7/2.25	7/0.0884	18.31	0.721	472	217	689	6,271	14,090	0.1699	Linnet
Oriole	336.4	170.45	0.2642	39.81	0.0617	210.26	0.3259	30/2.69	30/0.1059	7/2.69	7/0.1059	18.83	0.741	473	311	784	7,745	17,400	0.1704	Oriole
Chickadee	397.5	201.42	0.3122	11.16	0.0173	212.58	0.3295	18/3.77	18/0.1486	1/3.77	1/0.1486	18.85	0.743	555	87	642	4,399	9,890	0.1431	Chickadee
Brant	397.5	201.42	0.3122	26.13	0.0405	227.55	0.3527	24/3.27	24/0.1287	7/2.18	7/0.0858	19.61	0.772	558	204	762	6,469	14,540	0.1438	Brant
Ibis	397.5	201.42	0.3122	32.77	0.0508	234.19	0.3630	26/3.14	26/0.1236	7/2.44	7/0.0961	19.88	0.783	558	256	814	7,211	16,210	0.1438	Ibis
Lark	397.5	201.42	0.3122	46.97	0.0728	248.39	0.3850	30/2.92	30/0.1151	7/2.92	7/0.1151	20.44	0.806	560	367	927	8,869	19,930	0.1442	Lark
Pelican	477	241.68	0.3746	13.42	0.0208	255.10	0.3954	18/4.14	18/0.1628	1/4.14	1/0.1628	20.70	0.814	666	105	771	5,216	11,720	0.1193	Pelican
Flicker	477	241.68	0.3746	31.29	0.0485	272.97	0.4231	24/3.58	24/0.1410	7/2.39	7/0.0940	21.49	0.846	670	245	915	7,666	17,230	0.1199	Flicker
Hawk	477	241.68	0.3746	39.42	0.0611	281.10	0.4357	26/3.44	26/0.1354	7/2.67	7/0.1053	21.79	0.858	670	308	978	8,665	19,470	0.1199	Hawk
Hen	477	241.68	0.3746	56.39	0.0874	298.07	0.4620	30/3.20	30/0.1261	7/3.20	7/0.1261	22.40	0.883	671	441	1,112	10,534	23,670	0.1201	Hen
Osprey	556.5	282.00	0.4371	15.68	0.0243	297.68	0.4614	18/4.47	18/0.1758	1/4.47	1/0.1758	22.35	0.879	777	122	899	6,088	13,680	0.1022	Osprey
Parakeet	556.5	282.00	0.4371	36.58	0.0567	318.58	0.4938	24/3.87	24/0.1523	7/2.58	7/0.1015	23.22	0.914	781	286	1,067	8,822	19,820	0.1027	Parakeet
Dove	556.5	282.00	0.4371	45.94	0.0712	327.94	0.5083	26/3.72	26/0.1463	7/2.89	7/0.1138	23.55	0.927	781	359	1,140	10,103	22,700	0.1027	Dove
Eagle	556.5	282.00	0.4371	65.81	0.1020	347.81	0.5391	30/3.46	30/0.1362	7/3.46	7/0.1362	24.21	0.953	783	515	1,298	12,292	27,620	0.103	Eagle
Peacock	605	306.58	0.4752	39.74	0.0616	346.32	0.5368	24/4.03	24/0.1588	7/2.69	7/0.1059	24.20	0.953	849	311	1,160	9,588	21,550	0.0945	Peacock
Squab	605	306.58	0.4752	49.94	0.0774	356.52	0.5526	26/3.87	26/0.1525	7/3.01	7/0.1186	24.51	0.966	850	390	1,240	10,841	24,360	0.0945	Squab
Wood Duck	605	306.58	0.4752	71.55	0.1109	378.13	0.5861	30/3.61	30/0.1420	7/3.61	7/0.1420	25.25	0.994	851	560	1,411	12,884	28,950	0.0947	Wood Duck
Teal	605	306.58	0.4752	69.87	0.1083	376.45	0.5835	30/3.61	30/0.1420	19/2.16	19/0.0852	25.24	0.994	851	548	1,399	13,359	30,020	0.0947	Teal
Kingbird	636	322.26	0.4997	17.90	0.0275	340.16	0.5272	18/4.78	18/0.1880	1/4.78	1/0.1880	23.88	0.94	889	139	1,028	6,956	15,630	0.08945	Kingbird
Rook	636	322.26	0.4995	41.81	0.0648	364.07	0.5643	24/4.14	24/0.1628	7/2.76	7/0.1085	24.84	0.977	893	326	1,219	10,083	22,660	0.08989	Rook
Grosbeak	636	322.26	0.4995	52.45	0.0813	374.71	0.5808	26/3.97	26/0.1564	7/3.09	7/0.1216	25.15	0.99	893	409	1,302	11,180	25,120	0.08989	Grosbeak
Scoter	636	322.26	0.4995	75.22	0.1166	397.48	0.6161	30/3.70	30/0.1456	7/3.70	7/0.1456	25.88	1.019	895	589	1,484	13,544	30,440	0.09011	Scoter
Egret	636	322.26	0.4995	73.55	0.1140	395.81	0.6135	30/3.70	30/0.1456	19/2.22	19/0.3874	25.90	1.019	894	576	1,470	14,055	31,590	0.09011	Egret
Swift	636	322.26	0.4995	8.96	0.0139	331.22	0.5134	36/3.38	36/0.1329	1/3.38	1/0.1329	23.62	0.93	888	70	958	6,052	13,600	0.08945	Swift
Flamingo	666.6	337.74	0.5235	43.81	0.0679	381.55	0.5914	24/4.23	24/0.1667	7/2.82	7/0.1111	25.40	1.000	936	342	1,278	10,566	23,740	0.08577	Flamingo
Gannet	666.6	337.74	0.5235	55.03	0.0853	392.77	0.6088	26/4.07	26/0.1601	7/3.16	7/0.1245	25.76	1.014	936	429	1,365	11,733	26,370	0.08577	Gannet
Stilt	715.5	362.58	0.5620	46.97	0.0728	409.55	0.6349	24/4.39	24/0.1727	7/2.92	7/0.1151	26.31	1.036	1,005	367	1,372	11,335	25,470	0.07989	Stilt
Starling	715.5	362.58	0.5620	59.03	0.0915	421.61	0.6535	26/4.21	26/0.1659	7/3.28	7/0.1290	26.68	1.051	1,005	461	1,466	12,591	28,300	0.07989	Starling

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ACSR Aluminum conductors steel reinforced

USA SIZES [ASTMB232](#)

CODENAME	Area							Stranding and wire diameter				Approximate		Weight			Nominal breaking load		MaximumDCr esistanceat2 0°C	CODENAME
	Aluminum			Steel		Total		Aluminum		Steel		overall diameter		Aluminum	Steel	Total				
	AWG or MCM	mm²	inch²	mm²	inch²	mm²	inch²	mm	inch	mm	inch	mm	inch	kg/km	kg/km	kg/km	daN	lbf	Ohm/km	
Redwing	715.5	362.58	0.562	82.58	0.1280	445.16	0.6900	30/3.92	30/0.1544	19/2.35	19/0.0926	27.43	1.081	1,006	647	1,653	15,394	34,590	0.08009	Redwing
Tem	795	402.84	0.6244	27.87	0.0432	430.71	0.6676	45/3.38	45/0.1329	7/2.25	7/0.0886	27.03	1.063	1,116	217	1,333	9,737	21,880	0.07191	Tem
Condor	795	402.84	0.6244	52.19	0.0809	455.03	0.7053	54/3.08	54/0.1214	7/3.08	7/0.1214	27.72	1.093	1,116	408	1,524	12,445	27,970	0.07191	Condor
Cuckoo	795	402.84	0.6245	52.19	0.0809	455.03	0.7054	24/4.62	24/0.1820	7/3.08	7/0.1213	27.74	1.092	1,116	408	1,524	12,394	27,850	0.07191	Cuckoo
Drake	795	402.84	0.6244	65.51	0.1017	468.45	0.7261	26/4.44	26/0.1749	7/3.45	7/0.1360	28.11	1.108	1,116	512	1,628	13,992	31,440	0.07191	Drake
Coot	795	402.84	0.6244	11.16	0.0173	414.00	0.6417	36/3.77	36/0.1486	1/3.77	1/0.1486	26.41	1.040	1,110	88	1,198	7,485	16,820	0.07156	Coot
Mallard	795	402.84	0.6244	91.87	0.1424	484.71	0.7668	30/4.14	30/0.1628	19/2.48	19/0.0977	28.96	1.140	1,119	719	1,838	17,118	38,470	0.07208	Mallard
Ruddy	900	456.06	0.7065	31.54	0.0489	487.6	0.7558	45/3.59	45/0.1414	7/2.40	7/0.0943	28.73	1.131	1,263	247	1,510	10,931	24,565	0.06351	Ruddy
Canary	900	456.06	0.7069	59.10	0.0916	515.16	0.7985	54/3.28	54/0.1291	7/3.28	7/0.1291	29.52	1.162	1,263	461	1,724	14,095	31,675	0.06351	Canary
Rail	954	483.42	0.7493	33.42	0.0518	516.84	0.8011	45/3.70	45/0.1456	7/2.47	7/0.0971	29.61	1.165	1,339	262	1,601	11,585	26,030	0.05992	Rail
Catbird	954	483.42	0.7493	13.42	0.0208	496.84	0.7701	36/4.14	36/0.1628	1/4.14	1/0.1628	28.95	1.140	1,333	105	1,438	8,766	19,700	0.05962	Catbrid
Cardinal	954	483.42	0.7493	62.65	0.0971	546.07	0.8464	54/3.38	54/0.1329	7/3.38	7/0.1329	30.42	1.196	1,339	490	1,829	14,936	33,565	0.05992	Cardinal
Ortlan	1,033.5	523.68	0.8117	36.19	0.0561	559.87	0.8678	45/3.85	45/0.1516	7/2.57	7/0.1011	30.81	1.213	1,451	283	1,734	12,310	27,660	0.05531	Ortlan
Tanger	1,033.5	523.68	0.8117	14.51	0.0225	538.19	0.8342	36/4.30	36/0.1694	1/4.30	1/0.1694	30.12	1.186	1,443	113	1,556	9,493	21,330	0.05504	Tanger
Curlew	1,033.5	523.68	0.8117	67.87	0.1052	591.55	0.9169	54/3.52	54/0.1384	7/3.52	7/0.1384	31.68	1.246	1,451	530	1,981	16,180	36,360	0.05531	Curlew
Bluejay	1,113	563.93	0.8741	39.03	0.0605	602.96	0.9346	45/4.00	45/0.1573	7/2.66	7/0.1049	31.98	1.259	1,563	385	1,868	13,263	29,800	0.05136	Bluejay
Finch	1,113	563.93	0.8741	71.55	0.1109	635.48	0.985	54/3.65	54/0.1436	19/2.19	19/0.0862	32.85	1.293	1,570	580	2,130	17,441	39,190	0.05161	Finch
Bunting	1,192.5	604.26	0.9366	41.55	0.0644	645.81	1.0010	45/4.14	45/0.1628	7/2.76	7/0.1085	33.12	1.302	1,674	327	2,001	14,179	31,860	0.04793	Bunting
Grackle	1,192.5	604.26	0.9366	76.58	0.1137	680.84	1.0553	54/3.77	54/0.1486	19/2.27	19/0.0892	33.97	1.333	1,682	600	2,282	18,678	41,970	0.04817	Grackle
Bittern	1,272	644.51	0.999	44.52	0.0890	689.03	1.0680	45/4.27	45/0.1681	7/2.85	7/0.1121	34.17	1.345	1,785	349	2,134	15,148	34,040	0.04494	Bittern
Pheasant	1,272	644.51	0.999	81.63	0.1266	726.19	1.1256	54/3.90	54/0.1535	19/2.34	19/0.0921	35.10	1.382	1,795	833	2,433	19,400	43,600	0.04516	Pheasant
-	1,272	644.51	0.999	17.87	0.0277	662.38	1.0267	36/4.78	36/0.1880	1/4.78	1/0.1880	33.42	1.316	1,777	140	1,917	11,585	26,260	0.04472	-
Dipper	1,351.5	684.84	1.062	47.10	0.0730	731.94	1.1350	45/4.40	45/0.1733	7/2.92	7/0.1151	35.16	1.386	1,898	368	2,266	16,070	36,110	0.04230	Dipper
Martin	1,351.5	684.84	1.0615	88.71	0.1344	771.55	1.1959	54/4.02	54/0.1582	19/2.41	19/0.0949	36.17	1.424	1,906	679	2,585	20,605	46,300	0.04250	Martin
Bobolink	1,431	725.10	1.1239	50.32	0.0780	775.42	1.2020	45/4.53	45/0.1783	7/3.02	7/0.1189	36.24	1.427	2,009	393	2,402	17,071	38,360	0.03994	Bobolink
Plover	1,431	725.10	1.1239	91.87	0.1424	816.97	1.2663	54/4.14	54/0.1628	19/2.48	19/0.0977	37.24	1.465	2,019	719	2,738	21,824	49,040	0.04013	Plover
Nuthatch	1,510.5	765.35	1.1863	52.90	0.0820	818.25	1.2683	45/4.65	45/0.1832	7/3.10	7/0.1221	37.20	1.466	2,120	414	2,534	17,789	39,980	0.03784	Nuthatch
Parrot	1,510.5	765.35	1.1863	96.84	0.1501	862.19	1.3364	54/4.25	54/0.1675	19/2.55	19/0.1004	38.25	1.506	2,131	759	2,890	23,020	51,730	0.03802	Parrot
Lapwing	1,590	805.68	1.2488	55.48	0.0860	861.16	1.3350	45/4.77	45/0.1878	7/3.18	7/0.1252	38.16	1.502	2,232	435	2,667	18,702	42,030	0.03595	Lapwing
Falcon	1,590	805.68	1.2488	102.13	0.1583	907.81	1.4076	54/4.36	54/0.1716	19/2.62	19/0.1030	39.26	1.545	2,243	799	3,042	24,255	54,500	0.03613	Falcon
HIGHSTRENGTHSTRANDINGS																				
Grouse	80	40.52	0.0628	14.13	0.0219	54.65	0.0847	8/2.54	8/0.1000	1/4.24	1/0.1670	9.32	0.367	112	110	222	2,360	5,200	0.7115	Grouse
Petrel	101.8	51.61	0.0800	30.06	0.0466	81.67	0.1266	12/2.34	12/0.0921	7/2.34	7/0.0921	11.71	0.461	143	235	378	4,715	10,400	0.5613	Petrel
Minorca	110.8	56.13	0.0870	32.77	0.0508	88.90	0.1378	12/2.44	12/0.0961	7/2.44	7/0.0961	12.22	0.481	156	256	412	5,125	11,300	0.5161	Minorca
Leghorn	134.6	68.19	0.1057	39.81	0.0617	108.00	0.1674	12/2.69	12/0.1059	7/2.69	7/0.1059	13.46	0.53	189	311	500	6,170	13,600	0.4248	Leghorn
Guinea	159	80.58	0.1249	46.97	0.0723	127.55	0.1977	12/2.92	12/0.1151	7/2.92	7/0.1151	14.63	0.576	223	367	590	7,255	16,000	0.3595	Guinea
Dotterel	176.9	89.48	0.1389	52.19	0.0811	141.67	0.2200	12/3.08	12/0.1214	7/3.08	7/0.1214	15.42	0.607	248	409	657	7,850	17,300	0.3237	Dotterel
Dorking	190.8	96.71	0.1499	56.39	0.0874	153.10	0.2373	12/3.20	12/0.1261	7/3.20	7/0.1261	16.03	0.631	268	441	709	8,480	18,700	0.2995	Dorking
Brahma	203.2	102.97	0.1585	91.87	0.0424	194.84	0.3020	16/2.86	16/0.1127	19/2.48	19/0.0977	18.14	0.714	285	722	1007	12,880	28,400	0.2813	Brahma
Cochin	211.8	107.10	0.1660	62.45	0.0963	169.55	0.2628	12/3.37	12/0.1327	7/3.37	7/0.1327	16.84	0.663	297	488	785	9,390	20,700	0.2705	Cochin

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ACSR Aluminum conductors steel reinforced BRITISHSIZESBS215, PART 2

CODENAME	Nominal Aluminium area	Stranding and wire diameter				Overall		Area						Weight			Nominal breaking load		MaximumDCr esistanceat2 0°C	CODENAME
		Aluminum		Steel				Aluminum		Steel		Total		Aluminium	Steel	Total				
		mm²	mm	inch	mm	inch	mm	inch	mm²	inch²	mm²	inch²	mm²	inch²	kg/km	kg/km	kg/km	daN	lbf	
Mole	10	6/1.50	6/0.059	1/1.50	1/0.059	4.50	0.177	10.62	0.0165	1.77	0.0027	12.39	0.0192	29	14	43	414	922	2.706	Mole
Squirrel	20	6/2.11	6/0.083	1/2.11	1/0.083	6.33	0.249	20.94	0.0325	3.49	0.0054	24.43	0.0379	58	27	85	788	1,776	1.368	Squirrel
Gopher	25	6/2.36	6/0.093	1/2.36	1/0.093	7.08	0.279	26.25	0.0407	4.37	0.0068	30.62	0.0475	72	34	106	961	2,160	1.093	Gopher
Weasel	30	6/2.59	6/0.102	1/2.59	1/0.102	7.77	0.306	31.61	0.049	5.27	0.0082	36.88	0.0572	87	41	128	1,145	2,573	0.9077	Weasel
Fox	35	6/2.79	6/0.110	1/2.79	1/0.110	8.37	0.330	36.66	0.0568	6.11	0.0095	42.77	0.0663	101	48	149	1,320	2,968	0.7822	Fox
Ferret	40	6/3.00	6/0.118	1/3.00	1/0.118	9.00	0.354	42.41	0.0657	7.07	0.011	49.48	0.0767	117	55	172	1,520	3,417	0.6766	Ferret
Rabbit	50	6/3.35	6/0.132	1/3.35	1/0.132	10.05	0.396	52.88	0.082	8.82	0.0137	61.70	0.0956	145	69	214	1,835	4,133	0.5426	Rabbit
Mink	60	6/3.66	6/0.144	1/3.66	1/0.144	10.98	0.432	63.18	0.0979	10.53	0.0163	73.71	0.1142	173	82	255	2,180	4,901	0.4545	Mink
Skunk	60	12/2.59	12/0.102	7/2.59	7/0.102	12.95	0.510	63.27	0.0984	36.93	0.0574	100.3	0.1558	175	290	465	5,300	11,937	0.4567	Skunk
Beaver	70	6/3.99	6/0.157	1/3.99	1/0.157	11.97	0.471	74.82	0.116	12.47	0.0193	87.29	0.1353	205	97	302	2,570	5,778	0.3825	Beaver
Horse	70	12/2.79	12/0.110	7/2.79	7/0.110	13.95	0.550	73.37	0.1137	42.80	0.0663	116.17	0.1800	203	335	538	6,120	13,758	0.3936	Horse
Racoon	75	6/4.10	6/0.161	1/4.10	1/0.161	12.30	0.483	79.20	0.1228	13.20	0.0205	92.40	0.1433	217	103	320	2,720	6,115	0.3622	Racoon
Otter	80	6/4.22	6/0.166	1/4.22	1/0.166	12.66	0.498	83.88	0.13	13.98	0.0217	97.86	0.1517	230	109	339	2,880	6,452	0.3419	Otter
Cat	90	6/4.50	6/0.177	1/4.50	1/0.177	13.50	0.531	95.40	0.1479	15.90	0.0247	111.30	0.1726	262	124	386	3,270	7,351	0.3007	Cat
Hare	100	6/4.72	6/0.186	1/4.72	1/0.186	14.16	0.557	105.00	0.1628	17.50	0.0271	122.50	0.1899	288	137	425	3,600	8,093	0.2733	Hare
Dog	100	6/4.72	6/0.186	7/1.57	7/0.062	14.15	0.557	105.00	0.1628	13.50	0.0209	118.50	0.1837	288	106	394	3,270	7,351	0.2733	Dog
Hyena	100	7/4.39	7/0.173	7/1.93	7/0.076	14.57	0.574	105.80	0.164	20.44	0.0317	126.20	0.1956	290	160	450	4,090	9,195	0.2712	Hyena
Leopard	125	6/5.28	6/0.208	7/1.75	7/0.069	15.81	0.623	131.30	0.2035	16.80	0.026	148.10	0.2296	360	132	492	4,070	9,150	0.2184	Leopard
Coyote	125	26/2.54	26/0.100	7/1.91	7/0.075	15.89	0.626	132.10	0.2048	20.10	0.0311	152.20	0.2359	365	157	522	4,640	10,431	0.2187	Coyote
Cougar	125	18/3.05	18/0.120	1/3.05	1/0.120	15.25	0.600	130.30	0.202	7.25	0.0112	137.50	0.2131	362	57	419	2,980	6,699	0.2189	Cougar
Tiger	125	30/2.36	30/0.093	7/2.36	7/0.093	16.52	0.650	131.10	0.2032	30.60	0.0474	161.70	0.2506	362	240	602	5,800	13,039	0.2202	Tiger
Wolf	150	30/2.59	30/0.102	7/2.59	7/0.102	18.13	0.714	158.00	0.2449	36.90	0.0572	194.90	0.3021	437	289	726	6,920	15,557	0.1828	Wolf
Dingo	150	18/3.35	18/0.132	1/3.35	1/0.132	16.75	0.659	158.70	0.246	8.80	0.0136	167.50	0.2596	437	69	506	3,570	8,026	0.1815	Dingo
Lynx	175	30/2.79	30/0.110	7/2.79	7/0.110	19.53	0.770	183.40	0.2843	42.80	0.0663	226.20	0.3506	507	335	842	7,980	17,940	0.1576	Lynx
Caracal	175	18/3.61	18/0.142	1/3.61	1/0.142	18.05	0.711	184.20	0.2857	10.30	0.0159	194.50	0.3016	507	80	587	4,110	9,237	0.1563	Caracal
Panther	200	30/3.00	30/0.118	7/3.00	7/0.118	21.00	0.826	212.00	0.3286	49.50	0.0767	261.50	0.4053	586	388	974	9,225	20,730	0.1363	Panther
Lion	225	30/3.18	30/0.125	7/3.18	7/0.125	22.26	0.876	238.50	0.3697	55.60	0.0863	294.20	0.456	659	436	1,095	10,060	22,616	0.1212	Lion
Bear	250	30/3.35	30/0.132	7/3.35	7/0.132	23.45	0.923	264.00	0.4092	61.60	0.0955	325.60	0.5047	730	483	1,213	11,110	24,976	0.1093	Bear
Goat	300	30/3.71	30/0.146	7/3.71	7/0.146	25.97	1.022	324.3	0.5027	75.70	0.1173	400.00	0.6200	896	593	1,489	13,570	30,507	0.08910	Goat
Sheep	350	30/3.99	30/0.157	7/3.99	7/0.157	27.93	1.100	374.1	0.5799	87.30	0.1353	461.40	0.7152	1034	684	1,718	15,590	35,048	0.07704	Sheep
Antelope	350	54/2.97	54/0.117	7/12.97	7/0.117	26.73	1.052	373.1	0.5783	48.40	0.075	421.50	0.6533	1,032	379	1,411	11,820	26,572	0.07727	Antelope
Bison	350	54/3.00	54/0.118	7/3.00	7/0.118	27.00	1.062	381.8	0.5918	49.50	0.0767	431.30	0.6685	1,056	388	1,444	12,090	27,179	0.07573	Bison
Jaguar	200	18/3.86	18/0.152	1/3.86	1/0.152	19.30	0.76	210.6	0.3264	11.70	0.0181	222.30	0.3446	580	91	671	4,655	10,460	0.13670	Jaguar
Deer	400	30/4.27	30/0.168	7/4.27	7/0.168	28.89	1.177	429.3	0.6654	100.20	0.1553	529.50	0.8207	1,186	785	1,971	17,850	40,128	0.06726	Deer
Zebra	400	54/3.18	54/0.125	7/3.18	7/0.125	28.62	1.125	428.9	0.6648	55.60	0.0862	484.50	0.7510	1,186	435	1,621	13,190	29,652	0.06740	Zebra
Elk	450	30/4.50	30/0.177	7/4.50	7/0.177	31.50	1.239	477	0.7394	111.30	0.1725	588.30	0.9119	1,318	872	2,190	19,820	44,557	0.06056	Elk
Camel	450	54/3.35	54/0.132	7/3.35	7/0.132	30.15	1.187	475.2	0.7366	61.60	0.0955	536.80	0.8321	1,314	483	1797	14,570	32,756	0.06073	Camel
Moose	500	54/3.53	54/0.139	7/3.53	7/0.139	31.77	1.251	528.7	0.8195	68.50	0.1062	597.20	0.9257	1,462	537	1,999	16,110	36,217	0.05470	Moose

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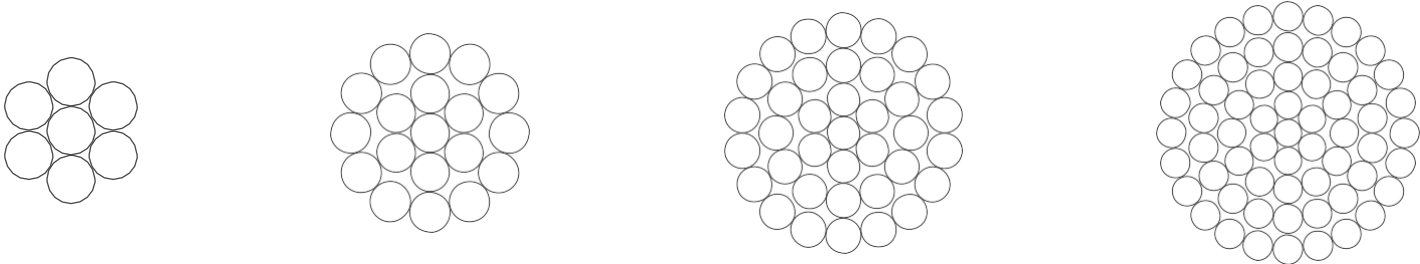
ACSR Aluminum conductors steel reinforced

GERMANSIZESDIN48204

Area			Stranding and wire diameter			Overall diameter	Weight			Nominal breaking load	MaximumDCresistanceat20°C
Nominal	Aluminum	Steel	Total	Aluminum	Steel		Aluminum	Steel	Total		
Aluminum / Steel											
mm2 / mm2	mm2	mm2	mm2	mm	mm	mm	kg/km	kg/km	kg/km	daN	Ohm/km
16/2,5	15.30	2.55	17.85	6/1.80	1/1.80	5.40	42	20	62	595	1.878
25/4,0	23.80	4.00	27.80	6/2.25	1/2.25	6.80	65	32	97	920	1.2002
35/6,0	34.30	5.70	40.00	6/2.70	1/2.70	8.10	94	46	140	1,265	0.8352
44/32,0	44.00	31.70	75.70	14/2.00	7/2.40	11.20	122	250	372	4,500	0.6573
50/8,0	48.30	8.00	56.30	6/3.20	1/3.20	9.60	132	64	196	1,710	0.5946
50/30	51.20	29.80	81.00	12/2.33	7/2.33	11.70	141	237	378	4,380	0.5643
70/12	69.90	11.40	81.30	26/1.85	7/1.44	11.70	193	91	284	2,680	0.413
95/15	94.40	15.30	109.70	26/2.15	7/1.67	13.60	260	123	383	3,575	0.3058
95/55	96.50	56.30	152.80	12/3.20	7/3.20	16.00	266	446	712	7,935	0.2992
105/75	105.70	75.50	181.50	14/3.10	19/2.25	17.50	292	599	891	10,845	0.2735
120/20	121.60	19.80	141.40	26/2.44	7/1.90	15.50	336	158	494	4,565	0.2374
120/70	122.00	71.30	193.30	12/3.60	7/3.60	18.00	337	564	901	10,000	0.2364
125/30	127.90	29.80	157.70	30/2.33	7/2.33	16.30	353	238	591	5,760	0.2259
150/25	148.90	24.20	173.10	26/2.70	7/2.10	17.10	411	194	605	5,525	0.1939
170/40	171.80	40.10	211.90	30/2.70	7/2.70	18.90	475	319	794	7,675	0.1682
185/30	183.80	29.80	213.60	26/3.00	7/2.33	19.00	507	239	746	6,620	0.1571
210/35	209.10	34.10	243.20	26/3.20	7/2.49	20.30	577	273	850	7,490	0.138
210/50	212.10	49.50	261.60	30/3.00	7/3.00	21.00	587	394	981	9,390	0.1362
230/30	230.90	29.80	260.70	24/3.50	7/2.33	21.00	638	239	877	7,310	0.1249
240/40	243.00	39.50	282.50	26/3.45	7/2.68	21.90	671	316	987	8,640	0.1188
265/35	263.70	34.10	297.80	24/3.74	7/2.49	22.40	728	274	1,002	8,305	0.1094
300/50	304.30	49.50	353.70	26/3.86	7/3.00	24.50	840	396	1,236	10,700	0.9487
305/40	304.60	39.50	344.10	54/2.68	7/2.68	24.10	843	317	1,160	9,940	0.949
340/30	339.30	29.80	369.10	48/3.00	7/2.33	25.00	938	242	1,180	9,290	0.08509
380/50	382.00	49.50	431.50	54/3.00	7/3.00	27.00	1,056	397	1,453	12,310	0.07573
385/35	386.00	34.10	420.10	48/3.20	7/2.49	26.70	1,067	277	1,344	10,480	0.07478
435/55	434.30	56.30	490.60	54/3.20	7/3.20	28.80	1,203	450	1,653	13,645	0.06656
450/40	448.70	39.50	488.20	48/3.45	7/2.68	28.70	1,241	320	1,561	12,075	0.06434
490/65	490.30	63.60	553.90	54/3.40	7/3.40	30.60	1,356	510	1,866	15,310	0.05896
495/35	494.10	34.10	528.20	45/374	7/2.49	29.90	1,363	283	1,646	12,180	0.05846
510/45	510.20	45.30	555.50	48/3.68	7/2.87	30.70	1,413	365	1,778	13,665	0.05655
550/70	550.00	71.30	621.30	54/3.60	7/3.60	32.40	1,520	572	2,092	17,060	0.05259
560/50	561.70	49.50	611.20	48/3.86	7/3.00	32.20	1,553	401	1,954	14,895	0.0514
570/40	565.50	39.50	610.30	45/4.00	7/2.68	32.20	1,563	325	1,888	13,900	0.05108
632/45	632.10	45.30	677.40	45/4.23	7/2.87	34.00	1,754	364	2,118	15,580	0.04569
680/85	678.80	86.00	764.80	54/4.00	19/2.40	36.00	1,868	702	2,570	21,040	0.0426

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AAC All-Aluminum stranded conductors



These conductors are formed by several aluminum wires stranded in concentric layers. They have a great economical advantage.



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AAC All- Aluminum stranded conductors

Designation	Area	Stranding and wire diameter		Overall diameter	Nominal	MaximumDCresi	Standard weight
	mm²	Nº	Ø(mm)	mm	daN	Ohm/km	kg/km
L-28	27.80	7	2.25	6.75	502	1.0285	76.2
L-40	43.10	7	2.80	8.40	727	0.6641	118
L-56	54.60	7	3.15	9.45	904	0.5247	149.3
L-80	75.50	19	2.25	11.25	1,364	0.3807	207.9
L-110	117.00	19	2.80	14.00	1,974	0.2458	321.9
L-145	148.10	19	3.15	15.75	2,454	0.1942	407.4
L-180	188.10	19	3.55	17.75	3,044	0.1529	517.4
L-280	279.30	37	3.10	21.70	4,629	0.1032	769.9
L-400	381.00	61	2.82	25.38	6,428	0.0758	1,052.6
L-450	454.50	61	3.08	27.72	7,535	0.0635	1,255.7
L-550	547.30	61	3.38	30.42	8,966	0.0527	1,512.2
L-630	638.30	61	3.65	32.85	10,331	0.0452	1,763.4

AAC All- aluminum stranded conductors
SPANISH SIZES **UNE 21018**

FRENCHSIZES

Composition	Final modulus of elasticity	Coefficient of linear expansion
	kg/mm ²	°C
7	6,000	23.0x10 ⁻⁶
19	5,700	23.0x10 ⁻⁶
37	5,700	23.0x10 ⁻⁶
61	5,500	23.0x10 ⁻⁶



Designation	Area	Stranding and wire diameter		Overall diameter	Nominal breaking load	MaximumDCresistanceat20°C	Standard weight
	mm ²	Nº	Ø(mm)	mm	daN	Ohm/km	kg/km
27.8	27.83	7	2.25	6.75	456	1.0300	76
34.4	34.36	7	2.50	7.50	565	0.8360	94
43.1	43.10	7	2.80	8.40	688	0.6670	118
54.6	54.55	7	3.15	9.45	847	0.5260	149
69.3	69.28	7	3.55	10.65	1,079	0.4150	190
75.5	75.54	19	2.25	11.25	1,197	0.3820	208
93.3	93.27	19	2.50	12.50	1,481	0.3090	257
117	116.98	19	2.80	14.00	1,805	0.2470	322
148	148.01	19	3.15	15.75	2,227	0.1950	407
188	188.06	19	3.55	17.75	2,825	0.1530	518
228	227.83	37	2.80	19.60	3,443	0.1270	627
288	288.34	37	3.15	22.05	4,228	0.1000	794
366	366.22	37	3.55	24.85	5,366	0.0792	1,009
475	475.38	61	3.15	28.35	6,730	0.0612	1,312
604	603.78	61	3.55	31.95	8,554	0.0481	1,667

AAC All- Aluminum stranded conductors (Class A and Class AA)

USASIZESASTMB231

CODENAME	Area			Stranding and wire diameter		Approximate overall diameter		Weight	Nominal breaking load		MaximumDCresi stanceat20°C	CODENAME
	AWG or MCM	mm²	inch²	mm	inch	mm	inch	kg/km	daN	lbf	Ohm/km	
Peach bell	6	13.30	0.0206	7/1.56	7/0.0612	4.68	0.184	36.6	253	528	2.1692	Peach bell
Rose	4	21.10	0.0328	7/1.96	7/0.0772	5.88	0.232	58.2	391	827	1.3624	Rose
Iris	2	33.60	0.0521	7/2.47	7/0.0974	7.41	0.292	92.6	599	1,266	0.8577	Iris
Pansy	1	42.40	0.0657	7/2.78	7/0.1093	8.34	0.328	116.6	730	1,537	0.6801	Pansy
Poppy	1/0	53.50	0.0829	7/3.12	7/0.1228	9.36	0.368	147.2	884	1,865	0.539	Poppy
Aster	2/0	67.40	0.1045	7/3.50	7/0.1379	10.50	0.414	185.7	1,110	2,351	0.4276	Aster
Phlox	3/0	85.00	0.1318	7/3.93	7/0.1548	11.79	0.464	233.9	1,350	2,847	0.3392	Phlox
Oxlip	4/0	107.20	0.1662	7/4.42	7/0.1739	13.26	0.522	295.2	1,700	3,59	0.2688	Oxlip
Valerian	250	126.70	0.1964	19/2.91	19/0.1147	14.55	0.574	348.6	2,070	4,507	0.2275	Valerian
Sneezewort	250	126.70	0.1964	7/4.80	7/0.1890	14.40	0.567	348.8	2,010	4,242	0.2275	Sneezewort
Laurel	266.8	135.20	0.2095	19/3.01	19/0.1185	15.05	0.593	372.2	2,210	4,808	0.2133	Laurel
Daisy	266.8	135.20	0.2095	7/4.96	7/0.1953	14.88	0.586	372.3	2,140	4,525	0.2133	Daisy
Peony	300	152.00	0.2356	19/3.19	19/0.1257	15.95	0.629	418.3	2,430	5,301	0.1896	Peony
Tulip	336.4	170.50	0.2642	19/3.38	19/0.1331	16.90	0.666	469.5	2,730	5,945	0.1691	Tulip
Daffodil	350	177.30	0.2749	19/3.45	19/0.1357	17.25	0.679	487.9	2,840	6,185	0.1625	Daffodil
Canna	397.5	201.40	0.3122	19/3.67	19/0.1447	18.35	0.723	554.9	3,160	6,884	0.1431	Canna
Goldentuft	450	228.00	0.3534	19/3.91	19/0.1539	19.55	0.77	627.6	3,500	7,633	0.1264	Goldentuft
Syringa	477	241.70	0.3746	37/2.88	37/0.1135	20.16	0.795	664.8	3,860	8,597	0.1193	Syringa
Cosmos	477	241.70	0.3746	19/4.02	19/0.1584	20.10	0.792	664.8	3,700	8,091	0.1193	Cosmos
Hyacinth	500	253.30	0.3927	37/2.95	37/0.1162	20.65	0.813	696.8	4,050	9,012	0.1138	Hyacinth
Zinnia	500	253.30	0.3927	19/4.12	19/0.1622	20.60	0.811	697.1	3,890	8,482	0.1138	Zinnia
Dahlia	556.5	282.00	0.4371	19/4.35	19/0.1711	21.75	0.856	775.7	4,430	9,441	0.1022	Dahlia
Mistletoe	556.5	282.00	0.4371	37/3.12	37/0.1226	21.84	0.858	775.8	4,330	9,835	0.1022	Mistletoe
Meadowsweet	600	304.00	0.4712	37/3.23	37/0.1273	22.61	0.891	836.3	4,750	10,602	0.0948	Meadowsweet
Orchid	636	322.30	0.4995	37/3.33	37/0.1311	23.31	0.918	886.9	5,040	11,239	0.0894	Orchid
Heuchera	650	329.40	0.5105	37/3.37	37/0.1326	23.59	0.928	907.4	5,170	11,486	0.0875	Heuchera
Flag	700	354.70	0.5498	61/2.72	61/0.1071	24.48	0.964	975.8	5,710	12,87	0.0813	Flag
Verbena	700	354.70	0.5498	37/3.49	37/0.1375	24.43	0.963	975.7	5,540	12,371	0.0813	Verbena
Nasturtium	715.5	362.60	0.562	61/2.75	61/0.1083	24.75	0.975	998.5	5,840	13,151	0.0795	Nasturtium
Violet	715.5	362.60	0.562	37/3.53	37/0.1391	24.71	0.974	998.5	5,670	12,645	0.0795	Violet
Cattail	750	380.00	0.589	61/2.82	61/0.1109	25.38	0.998	1,046	6,030	13,518	0.0759	Cattail
Petunia	750	380.00	0.589	37/3.62	37/0.1424	25.34	0.997	1,046	5,860	12,987	0.0759	Petunia
Lilac	795	402.80	0.6244	61/2.90	61/0.1142	26.10	1.028	1,110	6,380	14,33	0.0715	Lilac
Arbutus	795	402.80	0.6244	37/3.72	37/0.1466	26.04	1.026	1,109	6,180	13,768	0.0715	Arbutus
Snapdragon	900	456.00	0.7069	61/3.09	61/0.1215	27.81	1.094	1,256	7,080	15,905	0.0632	Snapdragon
Cockscomb	900	456.00	0.7069	37/3.96	37/0.1560	27.72	1.092	1,256	6,840	15,269	0.0632	Cockscomb
Goldenrod	954	483.40	0.7493	61/3.18	61/0.1251	28.62	1.126	1,331	7,500	16,859	0.0596	Goldenrod
Magnolia	954	483.40	0.7493	37/4.08	37/0.1606	28.56	1.124	1,331	7,260	16,185	0.0596	Magnolia
Camellia	1,000	506.70	0.7854	61/3.25	61/0.1280	29.25	1.152	1,394	7,830	17,672	0.0569	Camellia
Hawkweed	1,000	506.70	0.7854	37/4.18	37/0.1644	29.26	1.151	1,395	7,620	16,965	0.0569	Hawkweed

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AAC All- Aluminum stranded conductors (Class A and Class AA)

ASTMB231

CODENAME	Area			Stranding and wire diameter		Approximate overall diameter		Weight	Nominal breaking load		MaximumDCresi stanceat20°C	CODENAME
	AWG or MCM	mm²	inch²	mm	inch	mm	inch	kg/km	daN	lbf	Ohm/km	
Larkspur	1,033.5	523.70	0.8117	61/3.31	61/0.1302	29.79	1,172	1,442	8,130	18,263	0.055	Larkspur
Bluebell	1,033.5	523.70	0.8117	37/4.25	37/0.1671	29.75	1,170	1,441	7,880	17,533	0.055	Bluebell
Marigold	1,113	564.00	0.8741	61/3.43	61/0.1351	30.87	1,216	1,553	8,730	19,667	0.0511	Marigold
Hawthorn	1,192.5	604.20	0.9366	61/3.55	61/0.1398	31.95	1,258	1,662	9,350	21,074	0.0477	Hawthorn
Narcissus	1,272	644.50	0.999	61/3.67	61/0.1441	33.03	1,300	1,774	9,810	22,028	0.0447	Narcissus
Columbine	1,351.5	684.60	1.0615	61/3.78	61/0.1488	34.02	1,339	1,884	10,400	23,406	0.0421	Columbine
Carnation	1,431	725.10	1.1239	61/3.89	61/0.1532	35.01	1,379	1,997	10,800	24,276	0.0398	Carnation
Gladiolus	1,510.5	765.40	1.1863	61/4.00	61/0.1574	36.00	1,417	2,108	11,400	25,624	0.0376	Gladiolus
Coreopsis	1,590	805.70	1.2488	61/4.10	61/0.1614	36.90	1,453	2,216	12,000	26,974	0.0358	Coreopsis
Jessamine	1,750	886.70	1.3744	61/4.30	61/0.1694	38.70	1,525	2,442	13,200	29,687	0.0325	Jessamine
Cowslip	2,000	1,013.00	1.57	91/3.77	91/0.1482	41.47	1,630	2,787	15,300	34,200	0.0284	Cowslip
Sagebrush	2,250	1,140.00	1.767	91/3.99	91/0.1572	43.89	1,729	3,166	16,700	37,700	0.0253	Sagebrush
Lupine	2,500	1,267.00	1.962	91/4.21	91/0.1657	46.31	1,823	3,519	18,600	41,900	0.023	Lupine
Bitterroot	2,750	1,393.00	2.159	91/4.42	91/0.1738	48.62	1,912	3,872	20,500	46,100	0.0207	Bitterroot
Trillium	3,000	1,520.00	2.35	127/3.90	127/0.1537	50.70	1,996	4,226	22,300	50,300	0.0191	Trillium
Bluebonnet	3,500	1,773.00	2.749	127/4.22	127/0.1660	54.86	2,158	4,977	26,100	58,700	0.0166	Bluebonnet

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AAC All- Aluminum stranded conductors

GERMANSIZESDIN48201

Area		Stranding and wire diameter	Approximate overall diameter	Weight	Nominal breaking load	MaximumDCresi stanceat20°C
NOMINAL mm²	REAL mm²	mm	mm	kg/km	daN	Ohm/km
16	15.89	7/1.70	5.10	44	290	1.8018
25	24.25	7/2.10	6.30	67	425	1.1808
35	34.36	7/2.50	7.50	94	585	0.8332
50	49.48	7/3.00	9.00	135	810	0.5786
50	48.36	19/1.80	9.00	133	860	0.5950
70	65.82	19/2.10	10.50	181	1,150	0.4371
95	93.27	19/2.50	12.50	256	1,595	0.3084
120	117.00	19/2.80	14.00	322	1,910	0.2459
150	147.10	37/2.25	15.70	406	2,570	0.1960
185	181.60	37/2.50	17.50	501	3,105	0.1587
240	242.50	61/2.25	20.20	670	4,015	0.1191
300	299.40	61/2.50	22.50	827	4,850	0.0965
400	400.10	61/2.89	26.00	1,105	6,190	0.07221
500	499.80	61/3.23	29.10	1,381	7,600	0.05781
625	626.20	91/2.96	32.60	1,733	9,690	0.04625
800	802.10	91/3.35	36.80	2,219	12,055	0.03611
1,000	999.70	91/3.74	41.10	2,766	14,845	0.02897

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AAC All-Aluminum stranded conductors

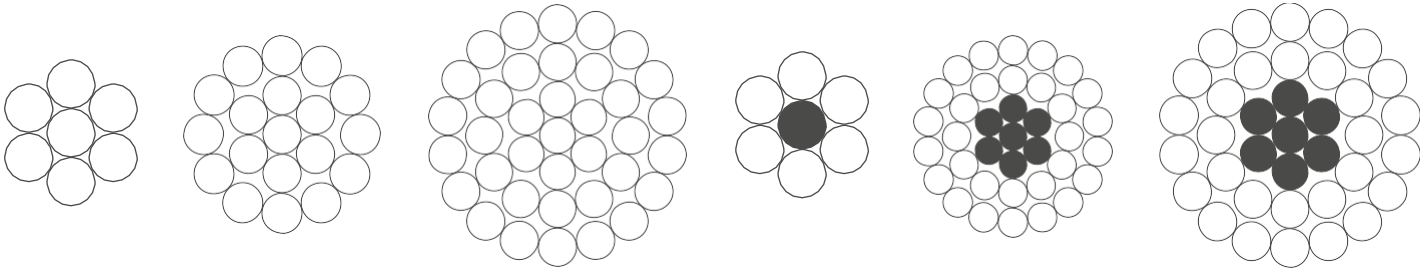
BRITISHSIZESBS215,Part1

CODENAME	Nominal aluminum area	Stranding and wire diameter		Approximate overall diameter		Total area		Weight	Nominal breaking load		MaximumDCresi stanceat20°C	CODENAME
	mm²	mm²	inch	mm	inch	mm²	inch²	kg/km	daN	lbf	Ohm/km	
Midge	22	7/2.06	7/0.081	6.20	0.243	23.33	0.03616	64	399	899	1.227	Midge
Aphis	25	3/3.35	3/0.132	7.20	0.284	26.40	0.04092	73	411	924	1.081	Aphis
Gnat	25	7/2.21	7/0.087	6.60	0.261	26.80	0.04158	73	459	1,032	1.066	Gnat
Weevil	30	3/3.66	3/0.144	7.90	0.311	31.60	0.04897	86	486	1,093	0.9082	Weevil
Mosquito	35	7/2.59	7/0.102	7.80	0.306	37.00	0.05740	101	603	1,355	0.7762	Mosquito
Ladybird	40	7/2.79	7/0.110	8.40	0.330	42.80	0.06629	117	687	1,544	0.6689	Ladybird
Ant	50	7/3.10	7/0.122	9.30	0.366	52.83	0.08189	145	828	1,861	0.5419	Ant
Fly	60	7/3.40	7/0.134	10.20	0.402	63.55	0.09850	174	990	2,226	0.4505	Fly
Bluebottle	70	7/3.66	7/0.144	11.00	0.432	73.70	0.1143	202	1,134	2,549	0.3881	Bluebottle
Earwing	75	7/3.78	7/0.149	11.40	0.447	78.50	0.1217	215	1,194	2,684	0.3644	Earwig
Grasshopper	80	7/3.91	7/0.154	11.70	0.462	84.10	0.1303	230	1,278	2,873	0.3406	Grasshopper
Clegg	90	7/4.17	7/0.164	12.50	0.493	95.60	0.1482	262	1,453	3,267	0.2994	Clegg
Wasp	100	7/4.39	7/0.173	13.20	0.519	106.00	0.1643	290	1,600	3,597	0.2702	Wasp
Beetle	100	19/2.67	19/0.105	13.40	0.526	106.60	0.1652	293	1,742	3,916	0.2704	Beetle
Bee	125	7/4.90	7/0.193	14.70	0.579	132.00	0.2046	361	1,994	4,483	0.2169	Bee
Cricket	150	7/5.36	7/0.211	16.10	0.633	157.90	0.2447	432	2,385	5,362	0.1813	Cricket
Hornet	150	19/3.25	19/0.128	16.30	0.640	157.60	0.2443	434	2,470	5,553	0.1825	Hornet
Caterpillar	175	19/3.53	19/0.139	17.70	0.695	186.00	0.2883	512	2,863	6,436	0.1547	Caterpillar
Chafer	200	19/3.78	19/0.149	18.90	0.744	213.20	0.3305	587	3,240	7,284	0.1349	Chafer
Spider	225	19/3.99	19/0.157	20.00	0.785	236.90	0.3672	652	3,601	8,095	0.1211	Spider
Cockroach	250	19/4.22	19/0.166	21.10	0.831	265.70	0.4118	731	4,040	9,082	0.10830	Cockroach
Butterfly	300	19/4.65	19/0.183	23.30	0.915	322.70	0.5002	888	4,870	10,948	0.08916	Butterfly
Moth	350	19/5.00	19/0.197	25.00	0.984	373.20	0.5785	1,027	5,637	12,667	0.07711	Moth
Drone	350	37/3.58	37/0.141	25.10	0.987	373.30	0.5786	1,029	5,745	12,910	0.07741	Drone
Locust	400	19/5.36	19/0.211	26.80	1.055	428.50	0.6642	1,179	6,473	14,550	0.06710	Locust
Centipede	400	37/3.78	37/0.149	26.50	1.042	415.20	0.6436	1,145	6,310	14,180	0.06944	Centipede
Maybug	450	37/4.09	37/0.161	28.60	1.127	486.90	0.7547	1,342	7,401	16,638	0.05931	Maybug
Scorpion	500	37/4.27	37/0.168	29.90	1.177	529.50	0.8207	1,460	7,998	17,980	0.05441	Scorpion
Cicada	600	37/4.65	37/0.183	32.60	1.282	628.60	0.9743	1,733	9,495	21,340	0.04588	Cicada
Tarantula	750	37/5.23	37/0.206	36.60	1.441	794.80	1.2320	2,191	12,010	27,000	0.03627	Tarantula

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AAAC
ACSR

All Aluminum alloy conductors and
Aluminum alloy conductors steel reinforced



These conductors are formed by several wires of aluminum alloy and galvanized Steel, stranded in concentric layers .The wire(s) which form the core are made by galvanized steel or aluminum alloy and external layer(s) are of alloy.

The aluminum alloy belongs to the Aluminum –Magnesium-Silicon group, which is also know nine Euro peas Almelec.

The aluminum alloy steel reinforced conductors have a much higher strength and its usage is suitable on long spans round every severe me- chemical conductors.

Composition	Final modulus of elasticity	Coefficient of linear expansion
	kg/mm²	°C
7	6,000	23.0x10 ⁻⁶
19	5,700	23.0x10 ⁻⁶
37	5,700	23.0x10 ⁻⁶
61	5,700	23.0x10 ⁻⁶
6+1	8,000	19.1x10 ⁻⁶
6+7	7,700	19.8x10 ⁻⁶
26+7	7,700	18.9x10 ⁻⁶
30+7	8,200	17.8x10 ⁻⁶
30+19	8,000	18.0x10 ⁻⁶
54+7	7,000	19.3x10 ⁻⁶
54+19	6,800	19.4x10 ⁻⁶



AAAC Aluminum alloy conductors

Designation	Area	Stranding and wire diameter		Overall diameter	Nominal breaking load	MaximumDCresi stanceat20°C	Standard weight
	mm²	Nº	Ø(mm)	mm	daN	Ohm/km	kg/km
D-28	27.80	7	2.25	6.75	819	1.1827	76.2
D-40	43.10	7	2.80	8.40	1,268	0.7637	118
D-56	54.60	7	3.15	9.45	1,605	0.6034	149.3
D-80	75.50	19	2.25	11.25	2,223	0.4378	207.9
D-110	117.00	19	2.80	14.00	3,443	0.2827	321.9
D-145	148.10	19	3.15	15.75	4,357	0.2234	407.4
D-180	188.10	19	3.55	17.75	5,535	0.1758	517.4
D-280	279.30	37	3.10	21.70	8,219	0.1187	769.9
D-400	381.00	61	2.82	25.38	11,213	0.0872	1,052.6
D-450	454.50	61	3.08	27.72	13,375	0.0731	1,255.7
D-550	547.30	61	3.38	30.42	16,108	0.0607	1,512.2
D-630	638.30	61	3.65	32.85	18,784	0.0520	1,763.4

AACSR Aluminum alloy conductors steel reinforced

SPANISHSIZESUNE21018

Designation	Area			Stranding and wire diameter				Diameter		Nominal breaking load	MaximumDCr esistanceat2 0°C	Standard weight
	Alum.	Steel	Total	Aluminum		Steel		Steel core	Overall			
	mm²	mm²	mm²	Nº	Ø(mm)	Nº	Ø(mm)	mm	mm			
DA-56	46.80	7.80	54.60	6	3.15	1	3.15	3.15	9.45	2,235	0.7056	189.1
DA-78	67.40	11.20	78.60	6	3.78	1	3.78	3.78	11.34	3,220	0.4900	272.3
DA-110	94.20	22.00	116.20	30	2.00	7	2.00	6.00	14.00	5,351	0.3525	432.7
DA-145	119.30	27.80	147.10	30	2.25	7	2.25	6.75	15.75	6,773	0.2785	547.7
DA-180	147.30	34.30	181.60	30	2.50	7	2.50	7.50	17.50	8,244	0.2256	676.2
DA-280	226.40	52.90	279.30	30	3.10	7	3.10	9.30	21.70	12,495	0.1467	1,039.7

AAAC Aluminum alloy conductors

FRENCHSIZESNFC34-125

Designation	Area	Stranding and wire diameter		Overall diameter	Nominal breaking load	Maximum DC resistance at20°C	Standard weight
	mm²	Nº	Ø(mm)	mm	daN	Ohm/km	kg/km
ASTER22	21.99	7	2.00	6.00	710	1.5	60.2
ASTER34-4	34.36	7	2.50	7.50	1,105	0.958	94
ASTER54-6	54.55	7	3.15	9.45	1,755	0.603	149
ASTER75-5	75.54	19	2.25	11.25	2,430	0.438	208
ASTER93-3	93.27	19	2.50	12.50	3,000	0.354	257
ASTER117	116.98	19	2.80	14.00	3,765	0.283	322
ASTER148	148.01	19	3.15	15.75	4,765	0.224	407
ASTER181-6	181.62	37	2.50	17.50	5,845	0.183	500
ASTER228	227.83	37	2.80	19.60	7,340	0.146	627
ASTER288	288.34	37	3.15	22.05	9,280	0.115	794
ASTER366	366.22	37	3.55	24.85	11,785	0.0905	1,009
ASTER570	570.22	61	3.45	31.05	18,360	0.0583	1,574

AACSR Aluminum alloy conductors steel reinforced FRENCHSIZESNFC34-125

Designation	Area			Stranding and wire diameter				Diameter		Nominal breaking load	MaximumDC resistanceat20°C	Standard weight
	Alum.	Steel	Total	Aluminum		Steel		Steel core	Overall			
	mm²	mm²	mm²	Nº	Ø(mm)	Nº	Ø(mm)	mm	mm	daN	Ohm/km	kg/km
PHLOX37-7	28.27	9.42	37.69	9	2.00	3	2.00	4.30	8.30	2,360	1.17	155
PHLOX59-7	37.70	21.99	59.69	12	2.00	7	2.00	6.00	10.00	4,560	0.880	276
PHLOX75-5	47.71	27.83	75.54	12	2.25	7	2.25	6.75	11.25	5,770	0.695	348
PHLOX116-2	56.55	59.69	116.24	18	2.00	19	2.00	10.00	14.00	10,815	0.580	636
PHLOX147-1	71.57	75.54	147.11	18	2.25	19	2.25	11.25	15.75	13,685	0.466	802
PASTEL147-1	119.28	27.83	147.11	30	2.25	7	2.25	6.75	15.75	8,185	0.279	547
PHLOX181-6	88.36	93.27	181.63	18	2.50	19	2.50	12.50	17.50	16,895	0.378	990
PASTEL181-6	147.26	34.36	181.62	30	2.50	7	2.50	7.50	17.50	10,120	0.227	675
PHLOX228	110.83	116.99	227.82	18	2.80	19	2.80	14.00	19.60	21,200	0.300	1,244
PASTEL228	184.72	43.10	227.82	30	2.80	7	2.80	8.40	19.60	12,680	0.180	848
PHLOX288	140.28	148.07	288.35	18	3.15	19	3.15	15.75	22.05	26,800	0.237	1,570
PASTEL288	233.80	54.55	288.35	30	3.15	7	3.15	9.45	22.05	16,050	0.142	1,074
PASTEL299	206.17	93.27	299.44	42	2.50	19	2.50	12.50	22.50	20,875	0.162	1,320
PHLOX94-1	51.95	42.12	94.07	15	2.10	19	1.68	8.40	12.80	8,035	0.642	481
PASTEL412	325.72	85.95	411.67	32	3.60	19	2.40	12.00	26.40	20,830	0.103	1,593

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AAAC 6201 Aluminum alloy conductor sized to have diameter equal to ACSR Aluminum alloy conductors

ASTMB-399

CODENAME	Area		Size and stranding of ACSR with equal diameter		Stranding and wire diameter	Overall diameter	Weight	Breaking load
	MCM	mm²	AWG of MCM	Al/steel	mm	mm	kg/km	daN
Akron	30.58	15.48	6	6/1	7/1.68	5.04	42.7	492
Alton	48.69	24.71	4	6/1	7/2.12	6.36	68	784
Ames	77.47	39.22	2	6/1	7/2.67	8.02	108	1,245
Azusa	123.3	62.38	1/0	6/1	7/3.37	10.11	172	1,897
Anaheim	155.4	78.65	2/0	6/1	7/3.78	11.35	217	2,393
Amherst	195.7	99.22	3/0	6/1	7/4.25	12.75	273	3,018
Alliance	246.9	125.10	4/0	6/1	7/4.77	14.31	345	3,805
Butte	312.8	158.60	266.8	26/7	19/3.26	16.30	437	4,876
Canton	394.5	199.90	336.4	26/7	19/3.66	18.30	551	5,891
Cairo	465.4	235.80	397.5	26/7	19/3.98	19.88	650	6,948
Darien	559.5	283.50	477	26/7	19/4.36	21.79	781	8,354
Elgin	652.4	330.60	556.5	26/7	19/4.71	23.54	911	9,742
Flint	740.8	375.30	636	26/7	37/3.59	25.16	1,035	10,821
Greeley	927.2	469.80	795	26/7	37/4.02	28.14	1,295	13,547

AAAC Aluminum alloy conductors

DIN48201

Area		Stranding and wire diameter	Overall diameter	Weight	Nominal breaking load	Maximum DC resistance at20°C
Nominal	Actual					
mm²	mm²	mm	mm	kg/km	daN	Ohm/km
16	15.89	7/1.70	5.10	44	441	2.0910
25	24.25	7/2.10	6.30	67	677	1.3703
35	34.36	7/2.50	7.50	94	961	0.9669
50	49.48	7/3.00	9.00	135	1,382	0.6714
50	48.36	19/1.80	9.00	133	1,354	0.6905
70	65.82	19/2.10	10.50	181	1,839	0.5073
95	93.27	19/2.50	12.50	256	2,609	0.3579
120	117.00	19/2.80	14.00	322	3,272	0.2854
150	147.10	37/2.25	15.70	406	4,110	0.2274
185	181.60	37/2.50	17.50	501	5,077	0.1842
240	242.50	61/2.25	20.20	670	6,779	0.1383
300	299.40	61/2.50	22.50	827	8,373	0.1120
400	400.10	61/2.89	26.00	1,105	11,183	0.0838
500	499.80	61/3.23	29.10	1,381	13,974	0.06709

AAAC Aluminum alloy conductors sized by standard are as

ASTMB399

Total area			Stranding and wire diameter		Overall diameter		Weight	Nominal breaking		MaximumDCresi stanceat20°C
AWG or MCM	mm²	inch²	mm	inch	mm	inch	kg/km	daN	lbf	Ohm/km
6	13.30	0.0206	7/1.554	7/0.0612	4.67	0.183	37	422	948	2.5199
4	21.15	0.0328	7/1.961	7/0.0772	5.89	0.232	58	671	1,508	1.5824
2	33.63	0.0521	7/2.474	7/0.0974	7.42	0.292	93	1,068	2,400	0.9942
0	53.48	0.0829	7/3.119	7/0.1228	9.36	0.368	148	1,697	3,815	0.6256
2/0	67.42	0.1045	7/3.503	7/0.1379	10.51	0.414	186	2,052	4,612	0.4959
3/0	85.03	0.1318	7/3.932	7/0.1548	11.80	0.464	234	2,586	5,810	0.3936
4/0	107.23	0.1662	7/4.417	7/0.1739	13.26	0.522	296	3,263	7,332	0.3119
250	126.66	0.1963	19/2.913	19/0.1147	14.57	0.574	349	3,893	8,749	0.2642
300	152.10	0.2358	19/3.193	19/0.1257	15.97	0.629	419	4,677	10,511	0.2199
350	177.35	0.2749	19/3.447	19/0.1357	17.24	0.679	489	5,225	11,742	0.1887
400	202.71	0.3142	19/3.686	19/0.1451	18.43	0.726	559	5,974	13,426	0.1650
450	228.00	0.3534	19/3.909	19/0.1539	19.55	0.770	629	6,719	15,100	0.1467
500	253.35	0.3927	19/4.120	19/0.1622	20.60	0.811	698	4,764	16,774	0.1321
550	278.60	0.4318	37/3.096	37/0.1219	21.67	0.853	768	8,380	18,835	0.1202
600	303.80	0.4709	37/3.233	37/0.1273	22.63	0.891	838	9,138	20,535	0.1102
650	329.25	0.5103	37/3.366	37/0.1325	23.56	0.928	908	9,494	21,336	0.1016
700	354.55	0.5496	37/3.493	37/0.1375	24.45	0.963	978	10,220	22,967	0.09440
750	380.20	0.5893	37/3.617	37/0.1424	25.32	0.997	1,049	10,960	24,630	0.08800
800	405.15	0.6280	37/3.734	37/0.1470	26.14	1.029	1,117	11,680	26,248	0.0826
900	456.16	0.7070	37/3.962	37/0.1560	27.73	1.092	1,258	13,150	29,551	0.07330
1,000	506.71	0.7854	37/4.176	37/0.1644	29.23	1.151	1,399	14,610	32,832	0.06600

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AAAC Aluminum alloy conductors

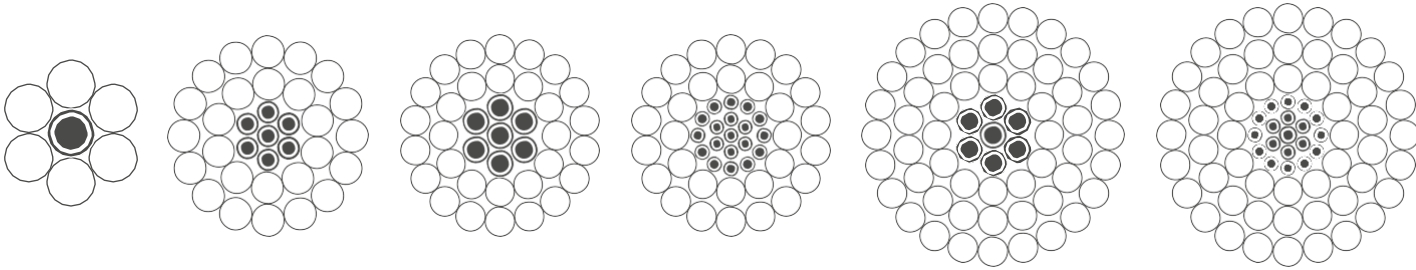
BRITISHBS3242

CODENAME	Nominal aluminum area	Stranding and wire diameter		Approximate overall diameter		Total area		Weight	Nominal breaking load		MaximumDCres istanceat20°C	CODENAME
	mm²	mm²	inch	mm	inch	mm²	inch²	kg/km	daN	lbf	Ohm/km	
-	10	7/1.47	7/0.058	4.41	0.174	11.90	0.0184	32	333	748	2.277	-
Box	15	7/1.85	7/0.073	5.55	0.219	18.80	0.02908	51	527	1,183	1.749	Box
Acacia	20	7/2.08	7/0.082	6.24	0.246	23.90	0.03711	65	670	1,509	1.384	Acacia
Almond	25	7/2.34	7/0.092	7.02	0.276	30.10	0.04666	82	844	1,900	1.094	Almond
Cedar	30	7/2.54	7/0.100	7.62	0.300	35.50	0.05498	97	995	2,237	0.9281	Cedar
-	35	7/2.77	7/0.109	8.31	0.327	42.20	0.06543	115	1,183	2,660	0.780	-
Fir	40	7/2.95	7/0.116	8.85	0.348	47.80	0.07415	131	1,340	3,012	0.6880	Fir
Hazel	50	7/3.30	7/0.130	9.90	0.390	59.90	0.0928	164	1,680	3,777	0.5498	Hazel
Pine	60	7/3.61	7/0.142	10.83	0.426	71.70	0.1111	196	2,010	4,519	0.4595	Pine
-	70	7/3.91	7/0.154	11.73	0.462	84.10	0.1303	230	2,357	5,299	0.3917	-
Willow	75	7/4.04	7/0.159	12.12	0.477	89.80	0.1392	246	2,517	5,656	0.3669	Willow
-	80	7/4.19	7/0.165	12.57	0.495	96.50	0.1496	264	2,704	6,077	0.3410	-
-	90	7/4.45	7/0.175	13.35	0.526	108.80	0.1686	298	3,050	6,857	0.3026	-
Oak	100	7/4.65	7/0.183	13.95	0.549	118.90	0.1843	325	3,330	7,486	0.2769	Oak
-	100	19/2.82	19/0.111	14.10	0.555	118.70	0.1841	326	3,330	7,486	0.2786	-
Mulberry	125	19/3.18	19/0.125	15.90	0.626	151.10	0.2342	415	4,230	9,506	0.2190	Mulberry
Ash	150	19/3.48	19/0.137	17.40	0.685	180.70	0.2801	497	5,060	11,375	0.1830	Ash
Elm	175	19/3.76	19/0.148	18.80	0.740	211.00	0.3271	580	5,910	13,286	0.1568	Elm
Poplar	200	37/2.87	37/0.113	20.09	0.791	239.00	0.3705	660	6,700	15,062	0.1387	Poplar
-	225	37/3.05	37/0.120	21.35	0.841	270.30	0.4185	744	7,570	17,012	0.1224	-
Sycamore	250	37/3.23	37/0.127	22.61	0.890	303.00	0.4697	835	8,490	19,000	0.1094	Sycamore
Upas	300	37/3.53	37/0.139	24.71	0.973	362.10	0.5613	998	10,150	22,810	0.09155	Upas
-	350	37/3.81	37/0.150	26.67	1.050	421.80	0.6538	1,163	11,820	26,565	0.07860	-
Yew	400	37/4.06	37/0.160	28.42	1.119	479.90	0.7439	1,323	13,450	30,227	0.06908	Yew

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ACSR/AW

Aluminum conductor’s aluminum clad
Steel reinforced



These conductors are formed by several wires of aluminum and aluminum clad steel, stranded in concentric layers .The wire(s) which form the core are made by aluminum clad steel and external layer (s) are of aluminum.

Aluminum clad steel (ACS) wire is a highly resistant steel wire, covered with a thick coating of pure aluminum. In comparison with galvanized steel wire ACS as the same tensile strength, it has a lower density; it is more resistant to corrosion and it provides a greater electrical conductivity.

Mainly due to these characteristics, it is the ideal material substitutive of galvanized steel on ACSR.

Composition	Finalmodulus ofelasticity	Coefficientoflinearexpansion
	kg/mm²	°C
6+1	7,600	19.1x10 ⁻⁶
6+7	7,300	20.0x10 ⁻⁶
26+7	7,300	19.1x10 ⁻⁶
30+7	7,600	18.0x10 ⁻⁶
30+19	7,400	18.2x10 ⁻⁶
54+7	6,700	19.5x10 ⁻⁶
54+19	6,500	19.6x10 ⁻⁶

ACSR/AW Aluminum conductor’s aluminum clad steel reinforced

UNE21018

Designation	Area			Stranding and wire diameter				Diameter		Nominal breaking load		Maximum resistance at20°C	Standard weight
	Alum.	AW	Total	Aluminum		AW		Steel Core	Overall				
	mm²	mm²	mm²	Nº	Ø(mm)	Nº	Ø(mm)	mm	mm	kg	daN	Ohm/km	kg/km
LARL-30	26.70	4.40	31.10	6	2.38	1	2.38	2.38	7.14	1,040	1,020	1.01736	102.4
LARL-56	46.80	7.80	54.60	6	3.15	1	3.15	3.15	9.45	1,750	1,720	0.58077	179.5
LARL-78	67.40	11.20	78.60	6	3.78	1	3.78	3.78	11.34	2,350	2,300	0.4033	258.5
LARL-145	119.30	27.80	147.10	30	2.25	7	2.25	6.75	15.75	5,620	5,510	0.2255	515.3
LARL-180	147.30	34.30	181.60	30	2.50	7	2.50	7.50	17.50	6,760	6,630	0.1825	636.1
LARL-280 Hawk	241.70	39.40	281.10	26	3.44	7	2.68	8.04	21.80	8,940	8,760	0.1135	930.0
LARL-380 Gull	337.30	43.70	381.50	54	2.82	7	2.82	8.46	25.38	11,180	10,960	0.08226	1,222.4
LARL-455 Condor	402.80	52.30	455.10	54	3.08	7	3.08	9.24	27.72	13,200	12,940	0.06896	1,458.2
LARL-545 Cardinal	483.40	62.70	546.10	54	3.38	7	3.38	10.14	30.42	15,630	15,320	0.05726	1,756.1
LARL-635 Finch	563.90	71.60	635.50	54	3.65	19	2.19	10.95	32.84	18,100	17,750	0.04938	2,045.8



ACSR/AW Aluminum conductors Aluminum clad steel reinforced

ASTMB-549

CODENAME	Area							Stranding and wire diameter				Approximate overall diameter		Weight			Nominal breaking load		MaximumDCr esistanceat2 0°C	CODENAME
	Aluminium			Alum weld		Total		Aluminum		Alum weld				Aluminum	Alum weld	Total				
	AWG/MCM	mm²	inch²	mm²	inch²	mm²	inch²	mm	inch	mm	inch	mm	inch	kg/km	kg/km	kg/km	daN	lbf	Ohm/km	
Swanate	4	21.16	0.0328	5.35	0.0083	26.51	0.0411	7/1.96	7/0.0772	1/2.61	1/0.1029	6.53	0.257	58.0	35	93	1,016	2,280	1.249	Swanate
Sparrow	2	33.61	0.0521	5.61	0.0087	39.22	0.0608	6/2.67	6/0.1052	1/2.67	1/0.1052	8.01	0.316	92.0	37	129	1,231	2,765	0.8079	Sparrow
Sparate	2	33.61	0.0521	8.52	0.0132	42.13	0.0653	7/2.47	7/0.0974	1/3.30	1/0.1299	8.24	0.325	92.0	56	148	1,560	3,505	0.7861	Sparate
Robin	1	42.39	0.0667	7.10	0.011	49.49	0.0767	6/3.00	6/0.1182	1/3.00	1/0.1182	9.00	0.355	116	47	163	1,534	3,445	0.6404	Robin
Raven	1/0	53.48	0.0829	8.90	0.0138	62.38	0.0967	6/3.37	6/0.1327	1/3.37	1/0.1327	10.11	0.398	147	59	206	1,878	4,220	0.5078	Raven
Quail	2/0	67.42	0.1045	11.23	0.0174	78.65	0.1219	6/3.78	6/0.1490	1/3.78	1/0.1490	11.34	0.447	185	74	259	2,285	5,135	0.4028	Quail
Pigeon	3/0	85.03	0.1318	14.19	0.022	99.22	0.1538	6/4.25	6/0.1672	1/4.25	1/0.1672	12.75	0.502	233	94	327	2,803	6,300	0.3193	Pigeon
Penguin	4/0	107.23	0.1662	17.87	0.0277	125.10	0.1939	6/4.77	6/0.1878	1/4.77	1/0.1878	14.31	0.563	294	118	412	3,415	7,675	0.2532	Penguin
Waxwing	266.8	135.16	0.2095	7.48	0.0116	142.64	0.2211	18/3.09	18/0.1217	1/3.09	1/0.1217	15.45	0.609	373	49	422	3,003	6,750	0.2094	Waxwing
Merlin	336.4	170.45	0.2642	9.48	0.0147	179.93	0.2789	18/3.47	18/0.1367	1/3.47	1/0.1367	17.35	0.684	470	62	532	3,766	8,465	0.1660	Merlin
Linnet	336.4	170.45	0.2642	27.81	0.043	198.26	0.3072	26/2.89	26/0.1137	7/2.25	7/0.0884	18.31	0.721	472	184	656	5,995	13,470	0.1610	Linnet
Oriole	336.4	170.45	0.2642	39.81	0.0617	210.26	0.3259	30/2.69	30/0.1059	7/2.69	7/0.1059	18.83	0.741	473	264	737	7,465	16,775	0.1578	Oriole
Chickadee	397.5	201.42	0.3122	11.16	0.0173	212.58	0.3295	18/3.77	18/0.1486	1/3.77	1/0.1486	18.85	0.743	555	74	629	4,362	9,800	0.1405	Chickadee
Ibis	397.5	201.42	0.3122	32.77	0.0508	234.19	0.3630	26/3.14	26/0.1236	7/2.44	7/0.0961	19.88	0.783	558	217	775	6,980	15,685	0.1363	Ibis
Lark	397.5	201.42	0.3122	46.97	0.0728	248.39	0.3850	30/2.92	30/0.1151	7/2.92	7/0.1151	20.44	0.806	560	311	871	8,719	19,595	0.1335	Lark
Pelican	477	241.68	0.3746	13.42	0.0208	255.10	0.3954	18/4.14	18/0.1628	1/4.14	1/0.1628	20.70	0.814	666	88	754	5,086	11,430	0.1171	Pelican
Flicker	477	241.68	0.3746	31.29	0.0485	272.97	0.4231	24/3.58	24/0.1410	7/2.39	7/0.0940	21.49	0.846	670	207	877	7,445	16,730	0.1148	Flicker
Hawk	477	241.68	0.3746	39.42	0.0611	281.10	0.4356	26/3.44	26/0.1354	7/2.67	7/0.1053	21.80	0.858	670	261	931	8,387	18,850	0.1136	Hawk
Hen	477	241.68	0.3746	56.39	0.0874	298.07	0.4620	30/3.20	30/0.1261	7/3.20	7/0.1261	22.40	0.883	671	373	1,044	10,353	23,265	0.1113	Hen
Osprey	556.5	282.00	0.4371	15.68	0.0243	297.68	0.4614	18/4.47	18/0.1758	1/4.47	1/0.1758	22.35	0.879	777	103	880	5,878	13,210	0.1003	Osprey
Parakeet	556.5	282.00	0.4371	36.58	0.0567	318.58	0.4938	24/3.87	24/0.1523	7/2.58	7/0.1015	23.22	0.914	781	242	1,023	8,564	19,245	0.0984	Parakeet
Dove	556.5	282.00	0.4371	45.94	0.0712	327.94	0.5083	26/3.72	26/0.1463	7/2.89	7/0.1138	23.55	0.927	781	304	1,085	9,780	21,980	0.0973	Dove
Eagle	556.5	282.00	0.4371	65.81	0.102	347.81	0.5391	30/3.46	30/0.1362	7/3.46	7/0.1362	24.21	0.953	783	436	1,219	11,896	26,735	0.0954	Eagle
Peacock	605	306.58	0.4752	39.74	0.0616	346.32	0.5368	24/4.03	24/0.1588	7/2.69	7/0.1059	24.20	0.953	840	263	1,112	9,308	20,920	0.0905	Peacock
Squab	605	306.58	0.4752	49.94	0.0774	356.52	0.5526	26/3.87	26/0.1525	7/3.01	7/0.1186	24.51	0.966	850	330	1,180	10,489	23,570	0.0895	Squab
Wood Duck	605	306.58	0.4752	71.55	0.1109	378.13	0.5861	30/3.61	30/0.1420	7/3.61	7/0.1420	25.25	0.994	851	474	1,325	12,663	28,455	0.0877	Wood Duck
Kingbird	636	322.26	0.4997	17.90	0.0275	340.16	0.5272	18/4.78	18/0.1880	1/4.78	1/0.1880	23.88	0.940	889	118	1,007	6,664	14,975	0.0878	Kingbird
Rook	636	322.26	0.4995	41.81	0.0648	364.07	0.5643	24/4.14	24/0.1628	7/2.76	7/0.1085	24.84	0.977	893	277	1,170	9,788	21,995	0.0861	Rook
Grosbeak	636	322.26	0.4995	52.45	0.0813	374.71	0.5809	26/3.97	26/0.1564	7/3.09	7/0.1216	25.15	0.990	893	347	1,240	11,021	24,765	0.0852	Grosbeak
Scoter	636	322.26	0.4995	75.22	0.1166	397.48	0.6161	30/3.70	30/0.1456	7/3.70	7/0.1456	25.88	1.019	895	498	1,393	13,029	29,280	0.0834	Scoter
Swift	636	322.26	0.4995	8.96	0.0139	331.22	0.5134	36/3.38	36/0.1329	1/3.38	1/0.1329	23.62	0.930	888	59	947	6,107	13,725	0.0886	Swift
Flamingo	666.6	337.74	0.5235	43.81	0.0679	381.55	0.5914	24/4.23	24/0.1667	7/2.82	7/0.1111	25.40	1.000	936	290	1,226	10,257	23,050	0.0821	Flamingo
Gannet	666.6	337.74	0.5235	55.03	0.0853	392.77	0.6089	26/4.07	26/0.1601	7/3.16	7/0.1245	28.30	1.114	936	364	1,300	11,557	25,970	0.0813	Gannet
Stilt	715.5	362.58	0.5620	46.97	0.0728	409.55	0.6349	24/4.39	24/0.1727	7/2.92	7/0.1151	26.31	1.036	1,005	311	1,316	11,004	24,730	0.0765	Stilt
Starling	715.5	362.58	0.5620	59.03	0.0915	421.61	0.6535	26/4.21	26/0.1659	7/3.28	7/0.1290	26.68	1.051	1,005	391	1,396	12,235	27,495	0.0757	Starling

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ACSR/AW Aluminum conductors Aluminum clad steel reinforced

ASTMB-549

CODENAME	Area							Stranding and wire diameter				Approximate overall diameter		Weight			Nominal breaking load		MaximumDCr esistanceat2 0°C	CODENAME
	Aluminum			Alum weld		Total		Aluminum		Alumo weld				Aluminum	Alumo weld	Total				
	AWG/MCM	mm²	inch²	mm²	inch²	mm²	inch²	mm	inch	mm	inch	mm	inch	kg/km	kg/km	kg/km	daN	lbf	Ohm/km	
Redwing	715.5	362.58	0.5620	82.58	0.1280	445.16	0.6901	30/3.92	30/0.1544	19/2.35	19/0.0926	27.43	1.081	1,006	547	1,553	14,831	33,330	0.0743	Redwing
Tem	795	402.84	0.6244	27.87	0.0432	430.71	0.6676	45/3.38	45/0.1329	7/2.25	7/0.0886	27.03	1.063	1,116	184	1,300	9,460	21,260	0.0702	Tem
Condor	795	402.84	0.6244	52.19	0.0809	455.03	0.7053	54/3.08	54/0.1214	7/3.08	7/0.1214	27.72	1.093	1,116	345	1,461	12,277	27,590	0.0689	Condor
Cuckoo	795	402.84	0.6244	52.19	0.0809	455.03	0.7054	24/4.62	24/0.1820	7/3.08	7/0.1213	27.74	1.092	1,116	345	1,461	12,227	27,480	0.0689	Cuckoo
Drake	795	402.84	0.6244	65.61	0.1017	468.45	0.7261	26/4.44	26/0.1749	7/3.45	7/0.1360	28.11	1.108	1,116	434	1,550	13,596	30,555	0.0681	Drake
Coot	795	402.84	0.6244	11.16	0.0173	414.00	0.6417	36/3.77	36/0.1486	1/3.77	1/0.1486	26.41	1.040	1,110	74	1,184	7,409	16,650	0.0709	Coot
Mallard	795	402.84	0.6244	91.87	0.1424	494.71	0.7668	30/4.14	30/0.1628	19/2.48	19/0.0977	28.96	1.140	1,119	609	1,728	16,491	37,060	0.0669	Mallard
Ruddy	900	456.06	0.7065	31.54	0.0489	487.60	0.7558	45/3.59	45/0.1414	7/2.40	7/0.0943	28.73	1.131	1,263	209	1,472	10,709	24,065	0.0620	Ruddy
Canary	900	456.06	0.7069	59.10	0.0916	515.16	0.7985	54/3.28	54/0.1291	7/3.28	7/0.1291	29.52	1.162	1,263	391	1,654	13,734	30,865	0.0608	Canary
Rail	954	483.42	0.7493	33.42	0.0518	516.84	0.8011	45/3.70	45/0.1456	7/2.47	7/0.0971	29.61	1.165	1,339	221	1,560	11,350	25,505	0.0585	Rail
Catbird	954	483.42	0.7493	13.42	0.0208	496.84	0.7701	36/4.14	36/0.1628	1/4.14	1/0.1628	28.95	1.140	1,333	88	1,421	8,636	19,405	0.0591	Catbird
Cardinal	954	483.42	0.7493	62.65	0.0971	546.07	0.8464	54/3.38	54/0.1329	7/3.38	7/0.1329	30.42	1.196	1,339	414	1,753	14,559	32,720	0.0574	Cardinal
Ortlan	1,033.5	523.68	0.8117	36.19	0.0561	559.87	0.8678	45/3.85	45/0.1516	7/2.57	7/0.1011	30.81	1.213	1,451	239	1,690	12,055	27,090	0.0540	Ortlan
Tanager	1,033.5	523.68	0.8117	14.51	0.0225	538.19	0.8342	36/4.30	36/0.1693	1/4.30	1/0.1693	30.12	1.186	1,443	96	1,539	9,352	21,015	0.0545	Tanager
Curlew	1,033.5	523.68	0.8117	67.87	0.1052	591.55	0.9169	54/3.52	54/0.1384	7/3.52	7/0.1384	31.68	1.246	1,451	449	1,900	15,516	34,870	0.0530	Curlew
Bluejay	1,113	563.93	0.8741	39.03	0.0605	602.96	0.9346	45/4.00	45/0.1573	7/2.66	7/0.1049	31.98	1.259	1,563	258	1,821	12,988	29,190	0.0502	Bluejay
Bunting	1,192.5	604.26	0.9366	41.55	0.0644	645.81	1.0010	45/4.14	45/0.1628	7/2.76	7/0.1085	33.12	1.302	1,674	275	1,949	13,886	31,205	0.0468	Bunting
Grackle	1,192.5	604.26	0.9366	76.58	0.1187	680.84	1.0553	54/3.77	54/0.1486	19/2.71	19/0.0892	33.97	1.333	1,682	508	2,190	17,941	40,320	0.0462	Grackle
Bittern	1,272	644.51	0.9990	44.52	0.0690	689.03	1.0680	45/4.27	45/0.1681	7/2.85	7/0.1121	34.17	1.345	1,785	295	2,080	14,834	33,335	0.0439	Bittern
Pheasant	1,272	644.51	0.9990	81.68	0.1266	726.19	1.1256	54/3.90	54/0.1535	19/2.34	19/0.0921	35.10	1.382	1,795	541	2,336	18,843	42,345	0.0433	Pheasant
-	1,272	644.51	0.9990	17.87	0.0277	662.38	1.0267	36/4.78	36/0.1880	1/4.78	1/0.1880	33.42	1.316	1,777	118	1,895	11,394	25,605	0.0443	-
Dipper	1,351.5	684.84	1.0620	47.10	0.0730	731.94	1.135	45/4.40	45/0.1733	7/2.92	7/0.1151	35.16	1.386	1,908	312	2,210	15,739	35,370	0.0413	Dipper
Martin	1,351.5	684.84	1.0615	86.71	0.1344	771.55	1.1959	54/4.02	54/0.1582	19/2.41	19/0.0949	36.17	1.424	1,906	575	2,481	20,013	44,975	0.0407	Martin
Bobolink	1,431	725.10	1.1239	50.32	0.0780	775.42	1.202	45/4.53	45/0.1783	7/3.02	7/0.1189	36.24	1.427	2,019	333	2,342	16,716	37,565	0.0390	Bobolink
Plover	1,431	725.10	1.1239	91.87	0.1424	816.97	1.2663	54/4.14	54/0.1628	19/2.48	19/0.0977	37.24	1.465	2,019	609	2,628	21,197	47,635	0.0385	Plover
Nuthatch	1,510.5	765.35	1.1863	52.90	0.0820	818.25	1.2683	45/4.65	45/0.1832	7/3.10	7/0.1221	37.20	1.466	2,120	350	2,470	17,619	39,595	0.0370	Nuthatch
Parrot	1,510.5	765.35	1.186	96.84	0.1501	862.19	1.3364	54/4.25	54/0.1675	19/2.55	19/0.1004	38.25	1.506	2,131	642	2,773	22,359	50,245	0.0364	Parrot
Lapwing	1,590	805.68	1.2488	55.48	0.0860	861.16	1.335	45/4.77	45/0.1878	7/3.18	7/0.1252	38.16	1.502	2,232	367	2,599	18,524	41,630	0.0351	Lapwing
Falcon	1,590	805.68	1.2488	102.13	0.1583	907.81	1.4076	54/4.36	54/0.1716	19/2.62	19/0.1030	39.26	1.545	2,243	677	2,920	23,558	52,940	0.0332	Falcon
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ACSR/AW High strength Aluminum conductor Aluminum clad steel reinforced

ASTM B-549

CODENAME	Area				Stranding and wire diameter				Overall diameter	Weight	Breaking load	MaximumDCresi stanceat20°C	CODENAME
	Aluminum		Alum weld	Total	Aluminum		Alum weld						
	AWGMCM	mm²	mm²	mm²	Nº	Ø(mm)	Nº	Ø(mm)				mm	
-	25.69	13.02	32.52	45.54	2	2.878	5	2.878	8.63	0.2530	3,985	1.1975	-
-	31.30	15.86	21.17	37.03	3	2.596	4	2.596	7.79	0.1846	2,726	1.2503	-
-	32.39	16.41	41.04	57.45	2	3.233	5	3.233	9.70	0.3192	5,022	0.9496	-
-	35.15	17.81	13.34	31.15	4	2.380	3	2.387	7.14	0.1379	1,861	1.2849	-
-	39.47	20.00	26.66	46.66	3	2.913	4	2.913	8.74	0.2324	3,424	0.9919	-
-	40.84	20.69	51.74	72.43	2	3.630	5	3.630	10.89	0.4025	5,990	0.7531	-
-	44.32	22.46	16.86	39.32	4	2.675	3	2.675	8.02	0.1742	2,341	1.0184	-
-	47.85	24.25	9.69	33.94	5	2.484	2	2.484	7.45	0.1311	1,553	1.0412	-
-	49.78	25.22	33.63	58.85	3	3.272	4	3.272	9.82	0.2933	4,307	0.7865	-
-	51.50	26.10	65.27	91.37	2	4.077	5	4.077	12.23	0.5077	7,298	0.5970	-
-	55.89	28.32	21.23	49.55	4	3.002	3	3.002	9.00	0.2194	2,935	0.8079	-
-	60.34	30.57	12.23	42.80	5	2.791	2	2.791	8.37	0.1655	1,945	0.8258	-
-	62.77	31.81	44.48	76.29	3	3.763	4	3.763	11.29	0.3879	5,211	0.6144	-
-	64.92	32.90	82.26	115.16	2	4.577	5	4.577	13.73	0.6400	8,655	0.4737	-
-	70.48	35.71	26.77	62.48	4	3.371	3	3.371	10.11	0.2766	3,608	0.6407	-
-	76.08	38.55	15.43	53.98	5	3.134	2	3.134	9.40	0.2087	2,416	0.6548	-
-	79.13	40.10	53.45	93.55	3	4.125	4	4.125	12.37	0.4661	6,122	0.4947	-
Grouse	80.00	40.54	14.13	54.67	8	2.540	1	4.242	9.32	0.2049	2,170	0.6358	Grouse
-	88.84	45.02	33.75	78.77	4	3.785	3	3.785	11.35	0.3488	4,294	0.5082	-
-	95.91	48.60	19.44	68.04	5	3.518	2	3.518	10.55	0.263	2,917	0.5195	-
-	99.83	50.58	67.43	118.01	3	4.633	4	4.633	13.90	0.5880	7,278	0.3922	-
Petrel	101.80	51.58	30.08	81.66	12	2.339	7	2.339	11.70	0.3420	4,400	0.4687	Petrel
Minorca	110.80	56.14	32.76	88.90	12	2.441	7	2.441	12.20	0.3725	4,792	0.4306	Minorca
-	112.10	56.80	42.60	99.40	4	4.252	3	4.252	12.75	0.4401	5,273	0.4028	-
-	121.00	61.31	24.53	85.84	5	3.952	2	3.952	11.85	0.3319	3,558	0.4118	-
Leghorn	134.60	62.80	39.78	102.58	12	2.690	7	2.690	13.45	0.4524	5,693	0.3796	Leghorn
-	141.30	71.60	53.72	125.32	4	4.775	3	4.775	14.32	0.5550	6,294	0.3195	-
-	152.50	77.27	30.92	108.19	5	4.437	2	4.437	13.31	0.4180	4,281	0.3267	-
Guinea	159.00	80.57	47.00	127.57	12	2.924	7	2.924	14.62	0.5345	6,798	0.3	Guinea
Dotterel	176.90	89.64	52.29	141.93	12	3.084	7	3.084	15.42	0.5946	7,520	0.2697	Dotterel
Dorking	190.80	96.68	56.40	153.08	12	3.203	7	3.203	16.01	0.6414	8,111	0.25	Dorking
Brahma	203.20	103.00	91.93	194.93	16	2.863	19	2.482	18.13	0.8972	12,046	0.216	Brahma
Cochin	211.30	107.10	62.47	169.57	12	3.371	7	3.371	16.85	0.7105	8,808	0.2257	Cochin

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Earth wires

ACS20SA



These conductors are formed by several wires of aluminum clad steel, stranded in concentric layers.

Aluminum clad steel (ACS) wire is a highly resistant steel wire, covered with a thick coating of pure aluminum. In comparison with galvanized steel wire ACS as the same tensile strength, it has a lower density; it is more resistant to corrosion and it provides a greater electrical conductivity.

Mainly due to these characteristics, it is the ideal material substitutive of galvanized steel one earth wires.

Composition	Final modulus of elasticity	Coefficient of linear expansion
	kg/mm ²	°C
3	16,170	13.0x10 ⁻⁶
7	16,170	13.0x10 ⁻⁶
19	16,170	13.0x10 ⁻⁶

EARTH WIRES ACS20SA

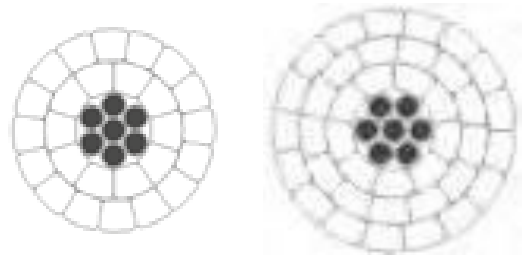
ASTM B-416

No and size of wires	Area	Diameter	Stranding and wire diameter		Nominal breaking load	Maximum DC resistance at 20°C	Standard Weight
	mm ²	mm	Nº	Ø (mm)	daN	Ohm/km	kg/km
3No.5AWG	50.29	9.96	3	4.62	5,447	1.6997	334.1
3No.6AWG	39.80	8.86	3	4.11	4,575	2.1476	264.4
3No.7AWG	31.74	7.91	3	3.67	3,859	2.6935	210.8
3No.8AWG	25.04	7.03	3	3.26	3,188	3.4136	166.3
3No.9AWG	19.95	6.27	3	2.91	2,540	4.2841	132.5
3No.10AWG	15.81	5.58	3	2.59	2,012	5.4081	105.0
7No.5AWG	117.35	13.86	7	4.62	12,040	0.7299	781.1
7No.6AWG	92.87	12.33	7	4.11	10,113	0.9222	618.1
7No.7AWG	74.05	11.01	7	3.67	8,530	1.1566	492.9
7No.8AWG	58.43	9.78	7	3.26	7,046	1.4659	388.9
7No.9AWG	46.56	8.73	7	2.91	5,615	1.8397	309.9
7No.10AWG	36.88	7.77	7	2.59	4,448	2.3224	245.5
7No.11AWG	29.08	6.90	7	2.30	3,507	2.9449	193.6
7No.12AWG	23.10	6.15	7	2.05	2,786	3.7070	153.8
19No.5AWG	318.51	23.10	19	4.62	32,680	0.2700	2128
19No.6AWG	252.07	20.55	19	4.11	27,451	0.3411	1684
19No.7AWG	200.99	18.35	19	3.67	23,154	0.4278	1343
19No.8AWG	158.59	16.30	19	3.26	19,126	0.5422	1060
19No.9AWG	126.37	14.55	19	2.91	15,240	0.6805	844
19No.10AWG	100.10	12.95	19	2.59	12,072	0.8590	669

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Trapezoidal-Shaped wire conductors



Trapezoidal wire differs from the conventional round wire conductor construction by having strands shaped in the form of a trapezoid. By shaping the wires in to trapezoids the interstices presented by round wires can be practically eliminated creating bigger conductor surface.

Trapezoid wires are usually designed in two ways;

- Area equivalent constructions; this construction permits the same aluminum area as that of an equivalent round wire construction. By reducing the interstices a smaller diameter conductor is produced. It results in lower wind and ice loads while maintaining the same ampacity.
- Diameter equivalent conductors; this construction packs more aluminum in to the same physical area. It contains approximately 20 % more aluminum, reducing the electrical resistance and increasing the current capacity.

Our technical department after analysis of the line parameters and the objectives raised by the customer design the right conductor.



HTLS-High temperature and low sag conductors

These conductors have superior sag-temperature characteristics than conventional conductors.

Application

- Over head line ampacity increase, supporting the emergency over load currents and / or permanent increment of electric load, maintaining adequate electrical clearances.
- Conductor replacement without modification existing structures (towers and found at ions).
- New lines: structure cost saving because of reduced sag, improving ampacity and capacity at over load situation.

TREFINASA have technical department specialized in low sag conductor, which principal function is to help in the line engineering.

Our technical department after analysis of the line pars a meter sands the objectives raised by the customer design the right concoctor and provides a feasibility study on the use of low sag conductor in the line.

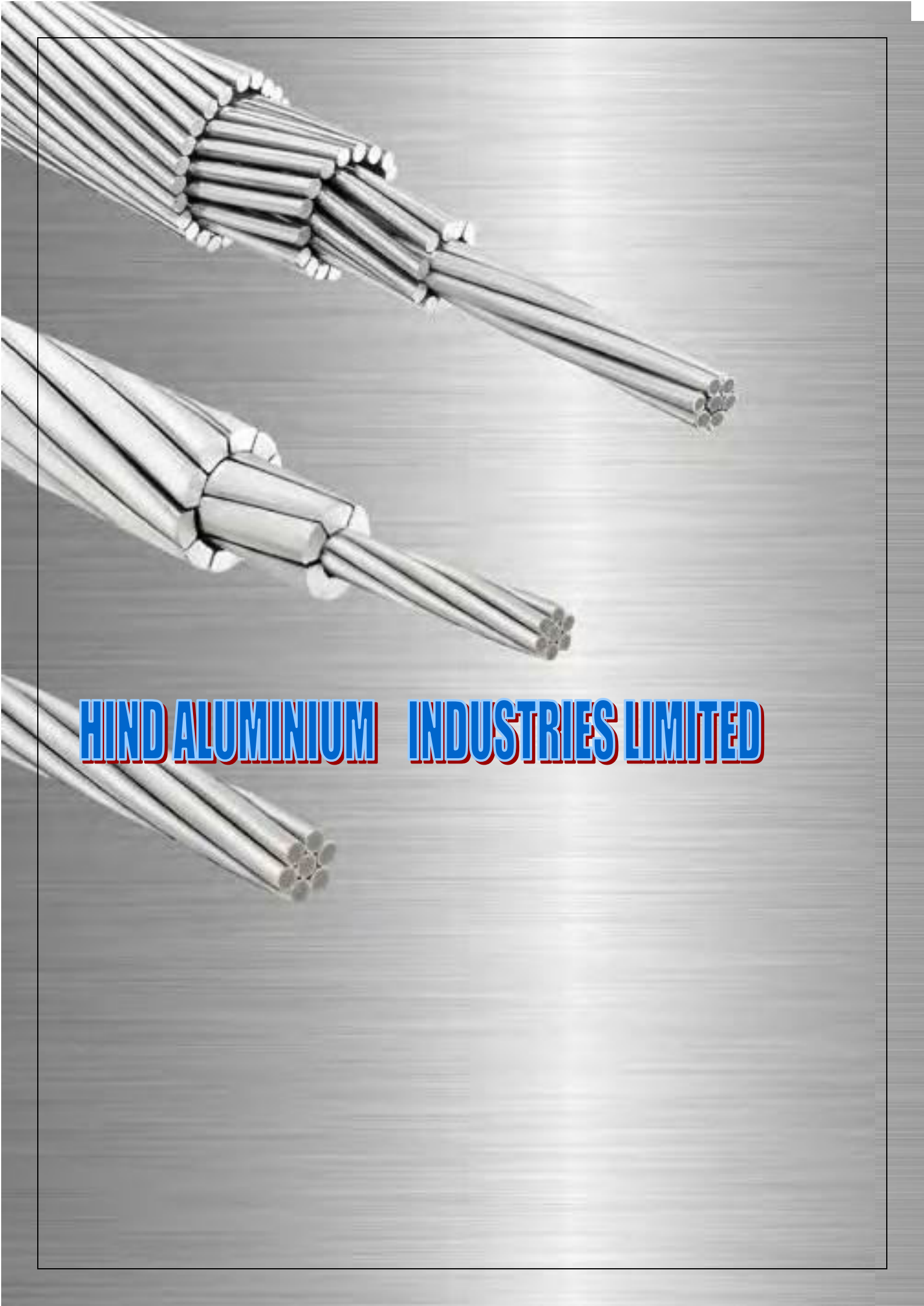
Available technologies;

- GAP technology
- ACSS(AW)
- ACCC
- ZTACIR



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HIND ALUMINIUM INDUSTRIES LIMITED