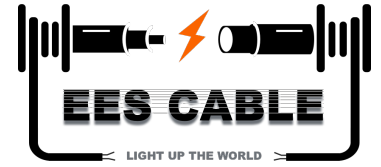


ASTM B856

Aluminum Conductor Steel Supported(ACSS)

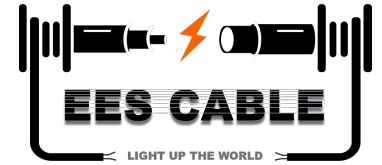


ACSS is a composite concentric-lay-stranded cable. ACSS conductors are manufactured in accordance with the latest issue of ASTM B856. The steel strands form the central core of the cable, around which is stranded one or more layers of aluminum 1350-O wires. The “O” temper of the aluminum, a fully annealed or soft temper, causes most or all of the mechanical load on ACSS to be carried by the steel. Standard ACSS designs are manufactured with regular-strength Class A zinc-5% aluminum mischmetal alloy-coated steel core (/MA2). The steel core may consist of 7, 19, 37 or more wires.

Code Word	Size kcmil	Stranding Al/St	Diameter (mm)				Weight kg/km			Rated Strength		Resistance Ω/km	
			Wires		Steel Core	Complete Cable	Al	Steel	Total	Standard Strength kN	High Strength kN	DC @ 20°C	AC @ 75°C
			Al	St									
Partridge/ACSS	266.8	26/7	2.57	2.00	6.00	16.31	374	172	546	39.50	43.28	0.2063	0.2537
Juno/ACSS	266.8	30/7	2.40	2.40	7.19	16.76	375	246	621	52.04	57.83	0.2050	0.2520
Ostrich/ACSS	300	26/7	2.73	2.12	6.37	17.27	421	193	614	44.48	48.49	0.1837	0.2257
Linnet/ACSS	336.4	26/7	2.89	2.25	6.74	18.29	471	217	688	49.82	54.71	0.1637	0.2013
Oriole/ACSS	336.4	30/7	2.69	2.69	8.07	18.82	473	311	783	65.83	72.51	0.1627	0.2000
Brant/ACSS	397.5	24/7	3.27	2.18	6.54	19.61	557	204	761	48.93	53.82	0.1390	0.1713
Ibis/ACSS	397.5	26/7	3.14	2.44	7.33	19.89	557	256	813	57.83	63.16	0.1387	0.1707
Lark/ACSS	397.5	30/7	2.92	2.92	8.77	20.47	558	367	925	77.84	85.85	0.1377	0.1693
Flicker/ACSS	477	24/7	3.58	2.39	7.16	21.49	669	245	913	57.83	63.16	0.1160	0.1430
Hawk/ACSS	477	26/7	3.44	2.67	8.03	21.79	669	307	976	69.39	76.06	0.1153	0.1423
Hen/ACSS	477	30/7	3.20	3.20	9.61	22.43	670	440	1110	93.41	100.97	0.1147	0.1413
Parakeet/ACSS	556.5	24/7	3.87	2.58	7.73	23.22	780	285	1065	67.61	73.84	0.0993	0.1227
Dove/ACSS	556.5	26/7	3.72	2.89	8.67	23.55	780	358	1138	80.96	88.52	0.0990	0.1220
Eagle/ACSS	556.5	30/7	3.46	3.46	10.38	24.21	782	514	1295	108.98	117.88	0.0983	0.1210
Peacock/ACSS	605	24/7	4.03	2.69	8.06	24.21	848	310	1158	73.40	80.51	0.0913	0.1130
Squab/ACSS	605	26/7	3.87	3.01	9.04	24.54	848	390	1238	87.63	94.75	0.0910	0.1123
Wood Duck/ACSS	605	30/7	3.61	3.61	10.82	25.25	850	558	1408	115.65	125.88	0.0903	0.1113
Teal/ACSS	605	30/19	3.61	2.16	10.82	25.25	850	547	1397	118.32	130.33	0.0907	0.1117
Rock/ACSS	636	24/7	4.14	2.76	8.27	24.82	891	326	1217	76.95	84.52	0.0870	0.1073
Grosbeak/ACSS	636	26/7	3.97	3.09	9.27	25.17	891	410	1301	92.08	99.64	0.0867	0.1070
Scooter/ACSS	636	30/7	3.70	3.70	11.09	25.88	894	587	1481	121.88	132.11	0.0860	0.1060
Egret/ACSS	636	30/19	3.70	2.22	11.09	25.88	894	575	1468	124.55	137.45	0.0860	0.1063
Flamingo/ACSS	666.6	24/7	4.23	2.82	8.47	25.40	934	342	1276	80.96	88.52	0.0830	0.1027

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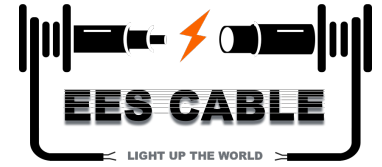
Aluminum Conductor Steel Supported(ACSS)



Code Word	Size kcmil	Stranding Al/St	Diameter (mm)				Weight kg/km			Rated Strength		Resistance Ω/km	
			Wires		Steel Core	Complete Cable	Al	Steel	Total	Standard Strength kN	High Strength kN	DC @ 20°C	AC @ 75°C
			Al	St									
Gannet/ACSS	666.6	26/7	4.07	3.16	9.49	25.76	934	429	1364	96.53	104.09	0.0827	0.1020
Stilt/ACSS	715.5	24/7	4.39	2.92	8.77	26.31	1003	367	1370	86.74	94.75	0.0773	0.0957
Starling/ACSS	715.5	26/7	4.21	3.28	9.83	26.70	1003	461	1464	103.64	112.10	0.0770	0.0953
Redwing/ACSS	715.5	30/19	3.92	2.35	11.77	27.46	1005	647	1652	137.01	151.24	0.0767	0.0947
Cuckoo/ACSS	795	24/7	4.62	3.08	9.25	27.74	1114	408	1522	96.53	103.64	0.0697	0.0863
Drake/ACSS	795	26/7	4.44	3.45	10.36	28.12	1114	512	1626	115.21	124.55	0.0697	0.0857
Macaw/ACSS	795	42/7	3.50	1.94	5.82	26.80	1114	162	1276	52.49	56.05	0.0703	0.0873
Tern/ACSS	795	45/7	3.38	2.25	6.75	27.00	1114	217	1332	63.16	67.61	0.0700	0.0877
Condor/ACSS	795	54/7	3.08	3.08	9.25	27.74	1114	408	1522	96.53	103.64	0.0697	0.0887
Mallard/ACSS	795	30/19	4.14	2.48	12.41	28.93	1117	718	1835	152.57	168.59	0.0690	0.0850
Ruddy/ACSS	900	45/7	3.59	2.40	7.18	28.73	1261	246	1507	70.28	75.62	0.0620	0.0777
Canary/ACSS	900	54/7	3.28	3.28	9.84	29.51	1261	461	1723	109.43	117.43	0.0613	0.0787
Redbird/ACSS	954	24/7	5.06	3.38	10.13	30.38	1337	489	1826	115.65	124.55	0.0580	0.0723
Rail/ACSS	954	45/7	3.70	2.47	7.40	29.59	1337	261	1598	74.29	80.07	0.0583	0.0733
Towhee/ACSS	954	48/7	3.58	2.79	8.36	29.85	1337	333	1670	87.63	94.75	0.0583	0.0727
Cardinal/ACSS	954	54/7	3.38	3.38	10.13	30.38	1337	489	1826	115.65	124.55	0.0580	0.0743
Canvasback/ACSS	954	30/19	4.53	2.72	13.59	31.70	1340	862	2202	182.82	201.95	0.0573	0.0713
Snowbird/ACSS	1033.5	42/7	3.99	2.21	6.64	30.56	1448	210	1659	68.50	73.40	0.0540	0.0680
Ortolan/ACSS	1033.5	45/7	3.85	2.57	7.70	30.78	1448	283	1731	80.51	86.74	0.0540	0.0680
Curlew/ACSS	1033.5	54/7	3.51	3.51	10.54	31.62	1448	530	1978	125.44	134.78	0.0537	0.0687
Bluejay/ACSS	1113	45/7	4.00	2.66	7.99	31.95	1560	304	1864	86.74	93.86	0.0500	0.0633
Finch/ACSS	1113	54/19	3.65	2.19	10.94	32.82	1567	559	2126	135.23	147.68	0.0500	0.0643
Bunting/ACSS	1192.5	45/7	4.14	2.76	8.27	33.07	1671	326	1997	95.19	104.53	0.0467	0.0593

ASTM B856

Aluminum Conductor Steel Supported(ACSS)



Code Word	Size kcmil	Stranding Al/St	Diameter (mm)				Weight kg/km			Rated Strength		Resistance Ω /km	
			Wires		Steel Core	Complete Cable	Al	Steel	Total	Standard Strength kN	High Strength kN	DC @ 20°C	AC @ 75°C
			Al	St									
Bittern/ACSS	1272	45/7	4.27	2.85	8.54	34.16	1783	348	2131	99.20	106.76	0.0437	0.0557
Pheasant/ACSS	1272	54/19	3.90	2.34	11.69	35.08	1791	639	2430	151.68	165.92	0.0437	0.0563
Dipper/ACSS	1351	45/7	4.40	2.93	8.80	35.20	1893	369	2263	105.42	113.43	0.0413	0.0527
Martin/ACSS	1351	54/19	4.02	2.41	12.05	36.17	1903	678	2581	161.03	176.15	0.0410	0.0533
Bobolink/ACSS	1431	45/7	4.53	3.02	9.06	36.25	2006	391	2397	111.65	120.10	0.0390	0.0500
Plover/ACSS	1431	54/19	4.14	2.48	12.41	37.21	2015	718	2734	170.81	186.38	0.0390	0.0503
Nuthatch/ACSS	1510	45/7	4.65	3.10	9.31	37.21	2116	413	2529	117.88	125.00	0.0370	0.0477
Parrot/ACSS	1510	54/19	4.25	2.55	12.74	38.23	2127	758	2885	179.71	196.61	0.0367	0.0480
Ratite/ACSS	1590	42/7	4.94	2.75	8.24	37.90	2228	323	2552	104.09	111.21	0.0350	0.0453
Lapwing/ACSS	1590	45/7	4.78	3.18	9.55	38.20	2228	435	2663	124.11	131.67	0.0350	0.0453
Falcon/ACSS	1590	54/19	4.36	2.62	13.08	39.22	2239	798	3038	189.49	207.29	0.0350	0.0457
Chukar/ACSS	1780	84/19	3.70	2.22	11.09	40.67	2507	575	3081	157.47	169.92	0.0313	0.0407
Mockingbird/ACSS	2034.5	72/7	4.27	2.85	8.54	42.70	2865	348	3213	120.99	128.55	0.0277	0.0367
Roadrunner/ACSS	2057	76/19	4.18	1.95	9.75	43.18	2897	444	3341	141.01	150.79	0.0273	0.0360
Bluebird/ACSS	2156	84/19	4.07	2.44	12.21	44.75	3036	696	3732	187.27	202.39	0.0260	0.0343
Kiwi/ACSS	2167	72/7	4.41	2.94	8.81	44.07	3052	370	3422	129.00	137.01	0.0260	0.0347
Thrasher/ACSS	2312	76/19	4.43	2.07	10.34	45.77	3256	499	3755	158.36	169.48	0.0243	0.0327
Joree/ACSS	2515	76/19	4.62	2.16	10.78	47.75	3542	543	4085	172.15	184.16	0.0223	0.0307