

Aluminum Conductor. Steel Reinforced . Bare. ACSR-AW
سیم آلومینیومی با مغزی فولادی (روکش آلومینیوم) ACSR/AW



	Code Name	Area				Stranding and wire Diameter	
		AWG or	Aluminum	Steel	Total	Aluminum	Steel
			mm ²			mm	
1	Grouse	80000	40.54	14.13	54.67	8/2.54	1/4.24
2	Patrel	101800	51.56	30.08	81.64	12/2.34	7/2.34
3	Minorca	110800	56.16	32.76	88.91	12/2.44	7/2.44
4	Leghorn	134600	68.2	39.78	107.98	12/2.69	7/2.69
5	Guinea	159000	80.58	47	127.58	12/2.92	7/2.92
6	Dotterel	176900	89.64	52.29	141.93	12/3.08	7/3.08
7	Darking	190800	96.69	56.4	153.09	12/3.20	7/3.2
8	Brahma	203200	103	91.93	194.93	16/2.86	19/2.48
9	Cochin	211300	107.1	62.47	169.57	12/3.37	7/3.37
10	Turkey	6	13.28	2.21	15.5	6/1.68	1/1.68
11	Swan	4	21.14	3.52	24.66	6/2.12	1/2.12
12	Swanate	4	21.14	5.37	26.51	7/1.96	1/2.61
13	Sparrow	2	33.64	5.61	39.25	6/2.67	1/2.67
14	Sparate	2	33.65	8.55	42.2	7/2.47	1/3.30
15	Robin	1	42.41	7.07	49.48	6/3.00	1/3.00
16	Raven	1/0	53.55	8.92	62.47	6/3.37	1/3.37
17	Quail	210	67.4	11.23	78.64	6/3.78	1/3.78
18	Pigeon	310	84.99	14.17	99.16	6/4.25	1/4.25
19	Penguin	410	107.22	17.87	125.09	6/4.77	1/4.77
20	Waxing	266800	135.07	7.5	142.57	18/3.09	1/3.09
21	Artridge	266800	134.87	21.99	156.86	26/2.57	7/2.0
22	Ostrich	300000	151.96	24.73	176.7	26/2.73	7/2.12
23	Merlin	336400	170.42	9.47	179.88	18/3.47	1/3.47
24	Linne	336400	170.31	27.71	198.02	26/2.89	7/2.25
25	Oriole	336400	170.49	39.78	210.27	30/2.69	7/2.69
26	Hickadee	397500	201.35	11.19	212.54	18/3.77	1/3.77
27	Bran	397500	201.43	26.1	227.53	24/3.27	7/2.18
28	Ibis	397500	201.2	32.76	233.96	26/3.14	7/2.44
29	Lark	397500	201.44	47	248.45	30/2.92	7/2.92
30	Pelican	477000	241.71	13.43	255.14	18/4.14	1/4.14
31	Flicker	477000	241.71	31.35	273.06	24/3.58	7/2.39
32	Hawk	477000	241.5	39.34	280.84	26/3.44	7/2.68
33	Hen	477000	241.72	56.4	298.12	30/3.44	7/13.2
34	Osprey	556500	281.83	15.66	297.49	18/4.47	1/4.47
35	Parakee	556500	282.01	36.54	318.55	24/3.87	7/2.58
36	Dove	556500	282.58	45.92	328.49	26/3.72	7/2.89
37	Eagle	556500	281.9	65.78	347.68	30/3.46	7/3.46
38	Peacock	605000	306.12	39.78	345.91	24/4.03	7/2.69
39	Squab	605000	305.82	49.81	355.63	26/3.87	7/3.01
40	Egret	636000	322.55	73.54	396.1	30/3.70	19/2.22
41	Swift	636000	322.24	8.95	331.19	36/3.38	1/3.38
42	Flamingo	666600	337.26	43.72	380.98	24/4.23	7/2.82
43	Gannet	666600	338.25	54.9	393.15	26/4.07	7/3.16

	Code Name	Area				Stranding and wire Diameter	
		AWG or	Aluminum	Steel	Total	Aluminum	Steel
			mm ²			mm	
1	Still	715500	362.76	47	409.77	24/4.39	7/2.92
2	Starling	715500	361.92	59.15	421.07	26/4.21	7/3.28
3	Redwing	715500	362.05	82.41	444.46	30/3.92	19/2.35
4	Cuckoo	795000	402.32	52.15	454.47	24/4.62	7/3.08
5	Drake	795000	402.55	65.44	467.98	26/4.44	7/3.45
6	Coot	795000	402.7	11.19	413.89	36/3.77	1/3.77
7	Tern	795000	403.76	27.83	431.59	45/3.38	7/2.25
8	Condor	795000	402.32	52.15	454.47	54/3.08	7/3.08
9	Mallard	795000	403.83	91.78	495.61	30/4.14	19/2.48
10	Ruddy	900000	455.49	31.67	487.16	45/3.59	7/2.4
11	Canary	900000	456.27	59.15	515.41	54/3.28	7/3.28
12	Catbird	954000	483.43	13.43	496.86	36/4.14	1/4.14
13	Rail	954000	483.83	33.54	517.37	45/3.7	7/2.47
14	Cardin	954000	484.51	62.81	547.32	54/3.38	7/3.38
15	Tenager	1033500	523.51	14.54	538.05	36/4.30	1/4.30
16	Ortlan	1033500	523.85	36.31	560.17	45/3.85	7/2.57
17	Curlew	1033500	525.48	68.12	593.6	54/3.52	7/3.52
18	Bluejay	1113000	565.47	38.9	604.37	45/4.0	7/2.66
19	Finch	1113000	545.01	71.57	636.58	54/3.65	19/2.19
20	Bunting	1192500	605.75	41.88	647.62	54/4.14	7/2.76
21	Crackle	1192500	602.77	76.89	679.66	54/3.77	19/2.27
22	Skylark	1272000	644.65	17.91	662.56	36/4.78	1/4.78
23	Bifern	1272000	644.38	44.65	689.04	45/4.27	7/2.85
24	Pheasant	1272000	645.06	81.71	726.77	54/3.9	19/2.34
25	Dipper	1351500	684.22	46.87	731.09	45/4.4	7/2.92
26	Martin	1351500	685.37	86.67	772.04	54/4.02	19/2.41
27	Bobolink	1431000	725.25	50.14	775.39	45/4.53	7/3.02
28	Plover	1431000	726.89	91.78	818.67	54/4.14	19/2.48
29	Nuthatch	1510500	764.18	52.83	817.01	54/4.65	7/3.10
30	Parrot	1510500	766.04	97.03	863.07	54/4.25	19/2.55
31	Lapwing	1590000	804.13	55.59	859.72	54/4.77	7/3.18
32	Falcon	1590000	806.2	102.43	908.63	54/4.36	19/2.62
33	Chukar	1780000	903.15	73.54	976.69	84/3.70	19/2.22
34	Bluebird	2156000	1092.27	88.91	1181.19	84/4.07	19/2.44
35	Kiwi	2167000	9098.24	47.49	1145.72	72/4.41	7/2.94
36	Thrasher	2312000	2171.38	63.82	1235.2	76/4.43	19/2.07
37	Wood Due	605000	306.54	71.53	378.07	30/3.61	7/3.61
38	Teal	605000	307.05	69.62	376.67	30/3.61	19/2.16
39	Kingbird	636000	323	17.94	340.95	18/4.78	1/4.78
40	Rook	636000	323.06	41.88	364.94	24/4.14	7/2.76
41	Grosbeak	636000	321.83	52.49	374.33	26/3.97	7/3.09
42	Scoter	636000	322.2	75.18	397.39	30/3.70	7/3.7

	Approximate Overall Diameter	Weight ¹			Nominal Breaking Load	Maximum DC ² Resistance at 20 °C	Maximum AC Resistance		Current rating Ambient Temp.	
		Aluminium	Steel	Total			25 °C	75 °C	25 °C	40 °C
	mm	kg / km			kgf	ohm / km	ohm / km		A	
1	9.32	112	93	205	2254	0.6359	0.6491	0.7773	212	177
2	11.69	143	199	342	4486	0.4688	0.5577	0.6679	266	223
3	12.21	156	217	372	4885	0.4305	0.5124	0.6136	281	236
4	13.45	189	263	452	5899	0.3545	0.4223	0.5057	320	268
5	14.62	223	311	534	6931	0.3	0.3574	0.428	357	300
6	15.42	249	346	594	7666	0.2697	0.3217	0.3852	384	322
7	16.01	268	373	641	8269	0.25	0.2982	0.3571	403	338
8	18.14	286	609	895	12280	0.2459	0.2839	0.34	452	380
9	16.86	297	413	710	8896	0.2257	0.2693	0.3224	432	362
10	5.04	36	15	51	526	2.0444	2.0857	2.4976	96	81
11	6.35	58	23	81	827	1.2847	1.3108	1.5697	131	110
12	6.54	58	35	93	1064	1.2497	1.275	1.5269	134	113
13	8.02	92	37	129	1283	0.8072	0.8238	0.9865	179	150
14	8.25	92	56	149	1631	0.7851	0.8012	0.9595	183	153
15	9	116	47	163	1596	0.6404	0.6537	0.7828	208	175
16	10.11	147	59	206	1930	0.5072	0.5177	0.62	243	204
17	11.35	185	74	259	2353	0.4029	0.4115	0.4928	283	238
18	12.74	233	93	327	2916	0.3195	0.3266	0.3912	331	277
19	14.31	294	118	412	3555	0.2533	0.2593	0.3105	386	323
20	15.46	373	49	422	3101	0.2095	0.2148	0.2573	435	364
21	16.28	372	145	519	4899	0.2035	0.2185	0.2617	449	376
22	17.28	421	164	585	5515	0.1806	0.1944	0.2328	485	407
23	17.36	470	62	533	3880	0.166	0.1707	0.2044	507	425
24	18.29	472	183	565	6099	0.1612	0.1735	0.2077	524	439
25	18.83	474	263	737	7608	0.1578	0.1731	0.2073	535	448
26	26.42	556	74	629	4410	0.1405	0.1449	0.1735	635	533
27	19.62	558	173	731	6330	0.1378	0.1474	0.1765	579	486
28	19.88	558	217	778	7112	0.1364	0.1473	0.1764	585	490
29	20.47	560	311	871	8894	0.1335	0.147	0.176	597	501
30	20.68	667	88	755	5246	0.1171	0.1212	0.1451	638	535
31	21.49	670	207	878	7600	0.1148	0.1233	0.1477	653	547
32	21.78	670	260	930	8143	0.1137	0.1232	0.1475	659	553
33	22.42	672	373	1045	10558	0.1113	0.123	0.1473	673	564
34	22.33	778	103	881	6204	0.1004	0.1044	0.1251	705	591
35	23.21	782	242	1024	8728	0.0984	0.1062	0.1272	722	605
36	23.55	783	304	1087	9880	0.0972	0.1058	0.1267	730	612
37	24.21	784	435	1219	12094	0.0954	0.1066	0.1277	742	622
38	24.19	849	263	1112	9489	0.0906	0.0984	0.1179	760	638
39	24.51	848	330	1177	10668	0.0898	0.0984	0.1178	768	644
40	25.9	897	488	1384	13614	0.0836	0.0939	0.1124	811	680
41	23.63	889	59	948	5196	0.0886	0.0928	0.1111	763	639
42	25.38	935	289	1224	10441	0.0823	0.09	0.1078	808	678
43	25.76	938	363	1301	11776	0.0812	0.0896	0.1073	818	686

	Code Name	Conductor Size	Area			Stranding and wire Diameter	
			Aluminum	Steel	Total	Aluminum	Steel
		mm	mm ²			mm	
1	Gopher	25	26.25	4.37	30.62	6/2.36	1/2.36
2	Weasel	35	31.61	5.27	36.88	6/2.59	1/2.59
3	Ferrer	40	42.41	7.07	49.48	6/3.00	1/3.35
4	Rabbit	50	52.88	8.81	61.7	6/3.35	7/2.79
5	Horse	70	73.36	42.79	116.16	12/2.79	7/2.79
6	Dog	100	104.98	13.55	118.53	6/4.72	7/1.57
7	Wolf	150	158.05	36.88	194.93	30/2.59	7/2.59
8	Dingo	150	158.65	8.81	167.46	18/3.35	1/3.35
9	Lynx	175	183.4	42.79	226.2	30/2.79	7/2.79
10	Cardinal	175	184.23	10.24	194.47	18/3.61	1/3.61
11	Panther	200	212.05	49.48	261.53	30/3.00	7/3.00
12	Jaguar	200	210.63	11.7	222.33	18/3.86	1/3.86
13	Zebra	400	428.87	55.59	484.46	54/3.18	7/3.18

Semi - Standard Sizes

	Code Name	Conductor Size	Area			Stranding and wire Diameter	
			Aluminum	Steel	Total	Aluminum	Steel
		mm	mm ²			mm	
1	Fox	35	36.68	6.11	42.79	6/2.79	1/2.79
2	Mink	60	63.12	10.52	73.64	6/3.66	1/3.66
3	Shunk	60	63.22	36.88	100.1	12/2.59	7/2.59
4	Beaver	75	75.02	12.5	87.52	6/3.99	1/3.99
5	Raccoon	75	78.83	13.14	91.96	6/4.09	1/4.09
6	Otter	80	83.92	13.99	97.9	6/4.22	1/4.22
7	Cat	95	95.42	15.9	111.33	6/4.5	1/4.50
8	Hare	105	104.98	17.5	122.48	6/4.72	1/4.72
9	Hyena	105	105.97	20.48	126.43	7/4.39	7/1.93
10	Leopard	130	131.37	16.84	148.21	6/5.28	7/1.75
11	Tiger	130	131.23	30.62	161.85	30/2.36	7/2.36
12	Coyote	130	131.74	20.06	151.8	26/2.54	7/1.91
13	Lion	235	238.26	55.59	293.85	30/3.18	7/3.18
14	Bear	160	264.42	61.7	326.11	30/3.35	7/3.35
15	Batang	300	323	15.52	338.52	18/4.78	7/1.68
16	Goat	320	324.3	75.67	399.97	30/3.71	7/3.71
17	Antelope	370	374.1	48.49	422.59	54/2.97	7/2.97
18	Sheep	375	375.1	87.52	462.62	30/3.99	7/3.99
19	Bison	380	381.69	49.48	431.17	54/3.0	7/3.0
20	Deer	425	429.59	100.24	529.83	30/4.27	7/4.27
21	Camel	475	475.95	31.7	537.65	54/3.35	7/3.35
22	Elk	475	477.12	111.33	588.44	30/4.5	7/4.5
23	Moose	525	528.47	68.51	596.98	54/3.53	7/3.53

	Approximate Overall Diameter	Weight			Nominal Breaking Load	Maximum DC Resistance at 20 °C	Maximum AC Resistance	
	Aluminium	Aluminium	Steel	Total			25 °C	75 °C
	mm	kg / km					kgf	ohm / km
1	7.08	72	29	101	452	1.0347	1.0557	1.2642
2	7.77	87	35	122	532	0.8591	0.8767	1.0499
3	9	116	47	163	685	0.6403	0.6537	0.7828
4	10.05	145	58	203	849	0.5135	0.5242	0.6278
5	13.95	203	283	487	6267	0.3295	0.3926	0.4701
6	14.15	288	90	378	3235	0.2619	0.278	0.329
7	18.13	439	244	683	6933	0.1702	0.1973	0.2362
8	16.75	419	58	477	2468	0.1784	0.188	0.2251
9	19.53	510	283	793	7993	0.1467	0.1614	0.1933
10	18.05	508	67	576	2831	0.1536	0.1607	0.1925
11	21	589	327	917	9191	0.1269	0.1402	0.1679
12	19.3	581	77	658	3197	0.1343	0.1385	0.1659
13	28.62	11.89	368	1557	13132	0.0647	0.0721	0.0863

	Approximate Overall Diameter	Weight			Nominal Breaking Load	Maximum DC Resistance at 20 °C	Maximum AC Resistance	
	Aluminium	Aluminium	Steel	Total			25 °C	75 °C
	mm	kg / km					kgf	ohm / km
1	8.37	101	40	141	1359	0.7404	0.7555	0.9048
2	10.98	173	69	243	2221	0.4302	0.4394	0.5262
3	12.95	175	244	419	5419	0.3824	0.4551	0.545
4	11.97	206	82	288	2582	0.362	0.3697	0.4428
5	12.27	216	87	303	2713	0.3445	0.3522	0.4218
6	12.66	230	92	323	2838	0.3236	0.3308	0.3962
7	13.5	262	105	367	3163	0.2846	0.2909	0.3484
8	14.16	288	115	404	3419	0.2587	0.2648	0.3171
9	14.57	291	135	426	4068	0.2542	0.2746	0.3288
10	15.81	361	111	472	4033	0.2093	0.0006	0.2665
11	16.52	365	203	567	5806	0.205	0.2244	0.2687
12	15.89	365	133	498	4518	0.2091	0.2238	0.2681
13	22.26	662	368	1030	10294	0.1129	0.1248	0.1494
14	23.45	735	408	1143	11193	0.1017	0.113	0.1353
15	24.16	896	103	998	6704	0.0883	0.0936	0.1121
16	25.97	901	501	1402	13155	0.083	0.0933	0.1118
17	26.73	1037	321	1358	11594	0.0742	0.0818	0.098
18	27.93	1043	579	1622	15145	0.0717	0.0814	0.0975
19	27	1058	327	1386	11688	0.0727	0.0802	0.096
20	29.89	1194	663	1857	16361	0.0626	0.0718	0.0859
21	30.15	1320	408	1728	14325	0.0583	0.0657	0.0787
22	31.5	1326	737	2063	18467	0.0564	0.0654	0.0783
23	31.77	1465	453	1919	15572	0.0525	0.0599	0.0718