ACSR/AW

Aluminum Conductor Steel Reinforced/Aluminum Clad Steel

Complete Conductor:

ACSR/AW is a composite concentric-lay-stranded conductor. ACSR/AW conductors are manufactured in accordance stranded conductor of 7,19,37 or more wires. Numerous combinations of aluminum and steel strands and layers are possible. The sizes and stranding listed on the following pages are those most frequently used for overhead lines with the requirements of the latest applicable ASTM specification B549issues. Aluminum-clad steel strands form the central core of the conductor, around which is stranded one or more layers of aluminum 1350-H19 wires. The aluminum- clad steel core may consist of a single strand or a concentric.

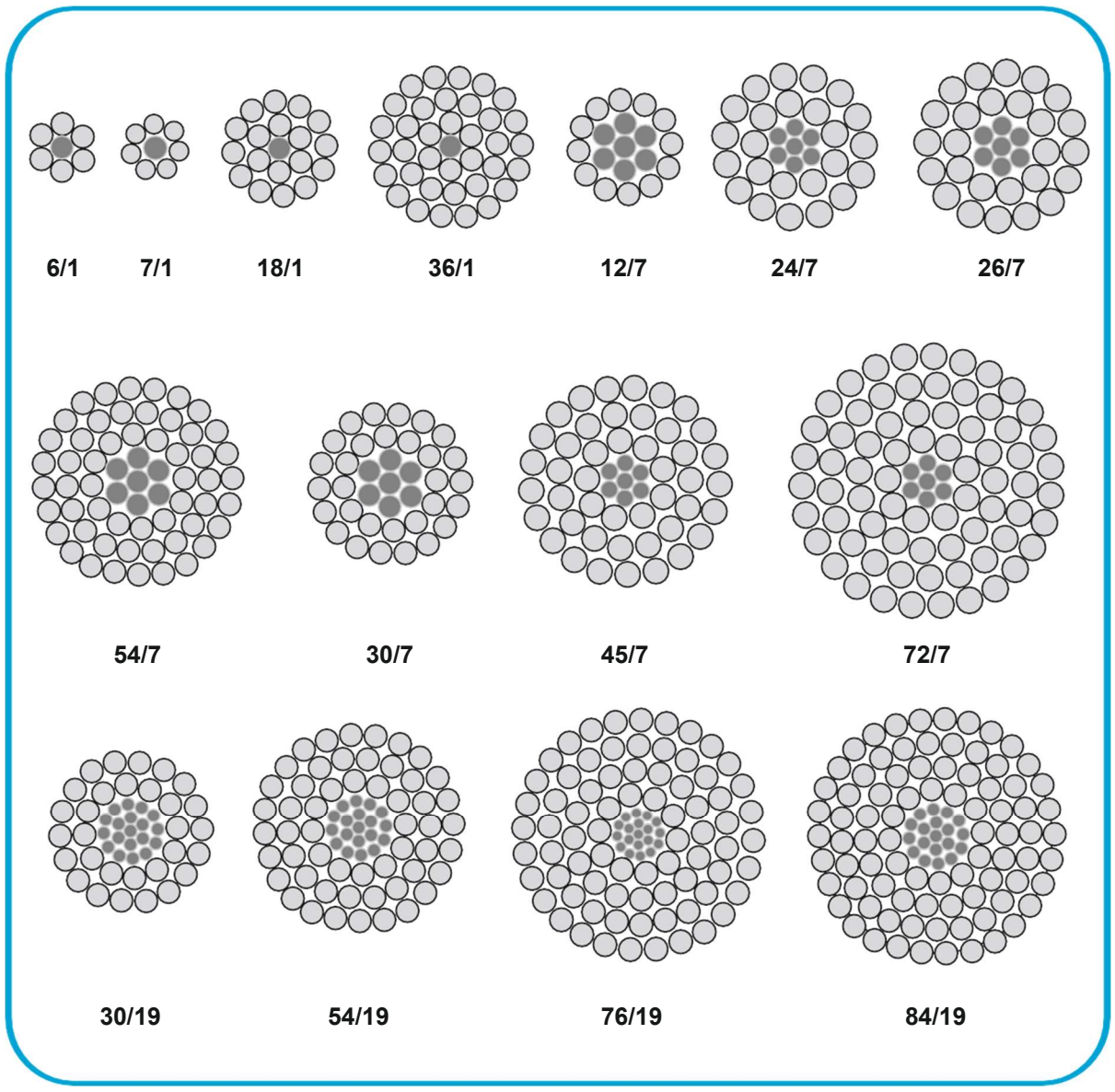
Features and Benefits:

The AW core, which consists of a thick layer of aluminum (approx. 10 percent of the nominal wire radius) over steel, gives ACSR/AW conductors the advantage of the light weight and good conductivity of aluminum with the high tensile strength and ruggedness of steel. The cross-sections above illustrate some common standings.

Applications:

Aluminum conductors reinforced with aluminum- clad steel wire (ACSR/AW) are used for overhead distribution and transmission lines where a high degree of corrosion resistance is needed. It should also be considered for use in locations where air pollution exists, such as along the coast or in highly industrialized areas.

ACSR cross section according to the number of layers:



USA Sizes ASTM B549

1- Due to rounding, the total values may not be exactly equal to the sum of the components values.

2- Based on a conductivity of 61.2% (minimum lot average) IACS at 20 c for the aluminum and 8% IACS at 20 c for the steel core.

AC resistance for single-layer and three-layer designs approximates the effects of core magnetization.

Code Name	Area				Stranding and wire diameter	
	AWG or	Aluminum	Steel	Total	Aluminum	Steel
		mm^2			mm	
Grouse	80000	40.54	14.13	54.67	8/2.54	1/4.24
Patrel	101800	51.56	30.08	81.64	12/2.34	7/2.34
Minorca	110800	56.16	32.76	88.91	12/2.44	7/2.44
Leghorn	134600	68.2	39.78	107.98	12/2.69	7/2.69
Guinea	159000	80.58	47	127.58	12/2.92	7/2.92
Dotterel	176900	89.64	52.29	141.93	12/3.08	7/3.08
Darking	190800	96.69	56.4	153.09	12/3.20	7/3.2
Brahma	203200	103	91.93	194.93	16/2.86	19/2.48
Cochin	211300	107.1	62.47	169.57	12/3.37	7/3.37
Turkey	6	13.28	2.21	15.5	6/1.68	1/1.68
Swan	4	21.14	3.52	24.66	6/2.12	1/2.12
Swanate	4	21.14	5.37	26.51	7/1.96	1/2.61
Sparrow	2	33.64	5.61	39.25	6/2.67	1/2.67
Sparate	2	33.65	8.55	42.2	7/2.47	1/3.30
Robin	1	42.41	7.07	49.48	6/3.00	1/3.00
Raven	1/0	53.55	8.92	62.47	6/3.37	1/3.37
Quail	210	67.4	11.23	78.64	6/3.78	1/3.78
Pigeon	310	84.99	14.17	99.16	6/4.25	1/4.25
Penguin	410	107.22	17.87	125.09	6/4.77	1/4.77
Waxing	266800	135.07	7.5	142.57	18/3.09	1/3.09
Artridge	266800	134.87	21.99	156.86	26.2.57	7/2.0
Ostrich	300000	151.96	24.73	176.7	26/2.73	7/2.12
Merlin	336400	170.42	9.47	179.88	18/3.47	1/3.47
Linne	336400	170.31	27.71	198.02	26/2.89	7/2.25
Oriole	336400	170.49	39.78	210.27	30/2.6 9	7/2.69
Hickadee	397500	201.35	11.19	212.54	18/3.77	1/3.77
Bran	397500	201.43	26.1	227.53	24/3.27	7/2.18
Ibis	397500	201.2	32.76	233.96	26/3.14	7/2.44
Lark	397500	201.44	47	248.45	30/2.92	7/2.92
Pelican	477000	241.71	13.43	255.14	18/4.14	1/4.14
Flicker	477000	241.71	31.35	273.06	24/3.58	7/2.39
Hawk	477000	241.5	39.34	280.84	26/3.44	7/2.68
Hen	477000	241.72	56.4	298.12	30/3.20	713.2
Osprey	556500	281.83	15.66	297.49	18/4.47	1/4.47
Parakee	556500	282.01	36.54	318.55	24/3.87	7/2.58
Dove	556500	282.58	45.92	328.49	26/3.72	7/2.89
Eagle	556500	281.9	65.78	347.68	30/3.46	7/3.46
Peacock	605000	306.12	39.78	345.91	24/4.03	7/2.69
Squab	605000	305.82	49.81	355.63	26/3.87	7/3.01
Egret	636000	322.55	73.54	396.1	30/3.70	19/2.22
Swift	636000	322.24	8.95	331.19	36/3.38	1/3.38
Flamingo	666600	337.26	43.72	380.98	24/4.23	7/2.82
Gannet	666600	338.25	54.9	393.15	26/4.07	7/3.16

Approximate overall diameter	Weight[1]			Nominal breaking load	Maximum DC resistance at 20°c[2]	Maximum AC resistance		Current rating ambient temp	
	Aluminum	Steel	Total			25°c	75°c	25°c	40°c
mm	kg/km			kgf	ohm/k	ohm/km		A	
9.32	112	93	205	2254	0.6359	0.6491	0.7773	212	177
11.69	143	199	342	4486	0.4688	0.5577	0.6679	266	223
12.21	156	217	372	4885	0.4305	0.5124	0.6136	281	236
13.45	189	263	452	5899	0.3545	0.4223	0.5057	320	268
14.62	223	311	534	6931	0.3	0.3574	0.428	357	300
15.42	249	346	594	7666	0.2697	0.3217	0.3852	384	322
16.01	268	373	641	8269	0.25	0.2982	0.3571	403	338
18.14	286	609	895	12280	0.2159	0.2839	0.34	452	380
16.86	297	413	710	8896	0.2257	0.2693	0.3224	432	362
5.04	36	15	51	526	2.0444	2.0857	2.4976	96	81
6.35	58	23	81	827	1.2847	1.3108	1.5697	131	110
6.54	58	35	93	1064	1.2497	1.275	1.5269	134	113
8.02	92	37	129	1283	0.8072	0.8238	0.9865	179	150
8.25	92	56	149	1631	0.7851	0.8012	0.9595	183	153
9	116	47	163	1596	0.6404	0.6537	0.7828	208	175
10.11	147	59	206	1930	0.5072	0.5177	0.62	243	204
11.35	185	74	259	2353	0.4029	0.4115	0.4928	283	238
12.74	233	93	327	2916	0.3195	0.3266	0.3912	331	277
14.31	294	118	412	3555	0.2533	0.2593	0.3105	386	323
15.46	373	49	422	3101	0.2095	0.2148	0.2573	435	364
16.28	372	145	519	4899	0.2035	0.2185	0.2617	449	376
17.28	421	164	585	5515	0.1806	0.1944	0.2328	485	407
17.36	470	62	533	3880	0.166	0.1707	0.2044	507	425
18.29	472	183	656	6099	0.1612	0.1735	0.2077	524	439
18.83	474	263	737	7608	0.1578	0.1731	0.2073	535	448
26.42	556	74	629	4410	0.1405	0.1449	0.1735	635	533
19.62	558	173	731	6330	0.1378	0.1474	0.1765	579	486
19.88	558	217	775	7112	0.1364	0.1473	0.1764	585	490
20.47	560	311	871	8894	0.1335	0.147	0.176	597	501
20.68	667	88	755	5246	0.1171	0.1212	0.1451	638	535
21.49	670	207	878	7600	0.1148	0.1233	0.1477	653	547
21.78	670	260	930	8143	0.1137	0.1232	0.1475	659	553
22.42	672	373	1045	10558	0.1113	0.123	0.1473	673	564
22.33	778	103	881	6204	0.1004	0.1044	0.1251	705	591
23.21	782	242	1024	8728	0.0984	0.1062	0.1272	722	605
23.55	783	304	1087	9880	0.0972	0.1058	0.1267	730	612
24.21	784	435	1219	12094	0.0954	0.1066	0.1277	742	622
24.19	849	263	1112	9489	0.0906	0.0984	0.1179	760	638
24.51	848	330	1177	10668	0.0898	0.0984	0.1178	768	644
25.9	897	488	1384	13614	0.0836	0.0939	0.1124	811	680
23.63	889	59	948	5196	0.0886	0.0928	0.1111	763	639
25.38	935	289	1224	10441	0.0823	0.09	0.1078	808	678
25.76	938	363	1301	11776	0.0812	0.0896	0.1073	818	686

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1- Due to rounding, the total values may not be exactly equal to the sum of the components values.

2- Based on a conductivity of 61.2% (minimum lot average) IACS at 20 c for the aluminum and 8% IACS at 20 c for the steel core.

AC resistance for single-layer and three-layer designs approximates the effects of core magnetization.

Code Name	Area				Stranding and wire diameter	
	AWG or	Aluminum	Steel	Total	Aluminum	Steel
		mm^2			mm	
Grouse	80000	40.54	14.13	54.67	8/2.54	1/4.24
Patrel	101800	51.56	30.08	81.64	12/2.34	7/2.34
Minorca	110800	56.16	32.76	88.91	12/2.44	7/2.44
Leghorn	134600	68.2	39.78	107.98	12/2.69	7/2.69
Guinea	159000	80.58	47	127.58	12/2.92	7/2.92
Dotterel	176900	89.64	52.29	141.93	12/3.08	7/3.08
Darking	190800	96.69	56.4	153.09	12/3.20	7/3.2
Brahma	203200	103	91.93	194.93	16/2.86	19/2.48
Cochin	211300	107.1	62.47	169.57	12/3.37	7/3.37
Turkey	6	13.28	2.21	15.5	6/1.68	1/1.68
Swan	4	21.14	3.52	24.66	6/2.12	1/2.12
Swanate	4	21.14	5.37	26.51	7/1.96	1/2.61
Sparrow	2	33.64	5.61	39.25	6/2.67	1/2.67
Sparate	2	33.65	8.55	42.2	7/2.47	1/3.30
Robin	1	42.41	7.07	49.48	6/3.00	1/3.00
Raven	1/0	53.55	8.92	62.47	6/3.37	1/3.37
Quail	210	67.4	11.23	78.64	6/3.78	1/3.78
Pigeon	310	84.99	14.17	99.16	6/4.25	1/4.25
Penguin	410	107.22	17.87	125.09	6/4.77	1/4.77
Waxing	266800	135.07	7.5	142.57	18/3.09	1/3.09
Artridge	266800	134.87	21.99	156.86	26.2.57	7/2.0
Ostrich	300000	151.96	24.73	176.7	26/2.73	7/2.12
Merlin	336400	170.42	9.47	179.88	18/3.47	1/3.47
Linne	336400	170.31	27.71	198.02	26/2.89	7/2.25
Oriole	336400	170.49	39.78	210.27	30/2.6 9	7/2.69
Hickadee	397500	201.35	11.19	212.54	18/3.77	1/3.77
Bran	397500	201.43	26.1	227.53	24/3.27	7/2.18
Ibis	397500	201.2	32.76	233.96	26/3.14	7/2.44
Lark	397500	201.44	47	248.45	30/2.92	7/2.92
Pelican	477000	241.71	13.43	255.14	18/4.14	1/4.14
Flicker	477000	241.71	31.35	273.06	24/3.58	7/2.39
Hawk	477000	241.5	39.34	280.84	26/3.44	7/2.68
Hen	477000	241.72	56.4	298.12	30/3.20	713.2
Osprey	556500	281.83	15.66	297.49	18/4.47	1/4.47
Parakee	556500	282.01	36.54	318.55	24/3.87	7/2.58
Dove	556500	282.58	45.92	328.49	26/3.72	7/2.89
Eagle	556500	281.9	65.78	347.68	30/3.46	7/3.46
Peacock	605000	306.12	39.78	345.91	24/4.03	7/2.69
Squab	605000	305.82	49.81	355.63	26/3.87	7/3.01
Egret	636000	322.55	73.54	396.1	30/3.70	19/2.22
Swift	636000	322.24	8.95	331.19	36/3.38	1/3.38
Flamingo	666600	337.26	43.72	380.98	24/4.23	7/2.82
Gannet	666600	338.25	54.9	393.15	26/4.07	7/3.16

Approximate overall diameter	Weight[1]			Nominal breaking load	Maximum DC resistance at 20°c[2]	Maximum AC resistance		Current rating ambient temp	
	Aluminum	Steel	Total			25°c	75°c	25°c	40°c
mm	kg/km			kgf	ohm/k	ohm/km		A	
9.32	112	93	205	2254	0.6359	0.6491	0.7773	212	177
11.69	143	199	342	4486	0.4688	0.5577	0.6679	266	223
12.21	156	217	372	4885	0.4305	0.5124	0.6136	281	236
13.45	189	263	452	5899	0.3545	0.4223	0.5057	320	268
14.62	223	311	534	6931	0.3	0.3574	0.428	357	300
15.42	249	346	594	7666	0.2697	0.3217	0.3852	384	322
16.01	268	373	641	8269	0.25	0.2982	0.3571	403	338
18.14	286	609	895	12280	0.2159	0.2839	0.34	452	380
16.86	297	413	710	8896	0.2257	0.2693	0.3224	432	362
5.04	36	15	51	526	2.0444	2.0857	2.4976	96	81
6.35	58	23	81	827	1.2847	1.3108	1.5697	131	110
6.54	58	35	93	1064	1.2497	1.275	1.5269	134	113
8.02	92	37	129	1283	0.8072	0.8238	0.9865	179	150
8.25	92	56	149	1631	0.7851	0.8012	0.9595	183	153
9	116	47	163	1596	0.6404	0.6537	0.7828	208	175
10.11	147	59	206	1930	0.5072	0.5177	0.62	243	204
11.35	185	74	259	2353	0.4029	0.4115	0.4928	283	238
12.74	233	93	327	2916	0.3195	0.3266	0.3912	331	277
14.31	294	118	412	3555	0.2533	0.2593	0.3105	386	323
15.46	373	49	422	3101	0.2095	0.2148	0.2573	435	364
16.28	372	145	519	4899	0.2035	0.2185	0.2617	449	376
17.28	421	164	585	5515	0.1806	0.1944	0.2328	485	407
17.36	470	62	533	3880	0.166	0.1707	0.2044	507	425
18.29	472	183	656	6099	0.1612	0.1735	0.2077	524	439
18.83	474	263	737	7608	0.1578	0.1731	0.2073	535	448
26.42	556	74	629	4410	0.1405	0.1449	0.1735	635	533
19.62	558	173	731	6330	0.1378	0.1474	0.1765	579	486
19.88	558	217	775	7112	0.1364	0.1473	0.1764	585	490
20.47	560	311	871	8894	0.1335	0.147	0.176	597	501
20.68	667	88	755	5246	0.1171	0.1212	0.1451	638	535
21.49	670	207	878	7600	0.1148	0.1233	0.1477	653	547
21.78	670	260	930	8143	0.1137	0.1232	0.1475	659	553
22.42	672	373	1045	10558	0.1113	0.123	0.1473	673	564
22.33	778	103	881	6204	0.1004	0.1044	0.1251	705	591
23.21	782	242	1024	8728	0.0984	0.1062	0.1272	722	605
23.55	783	304	1087	9880	0.0972	0.1058	0.1267	730	612
24.21	784	435	1219	12094	0.0954	0.1066	0.1277	742	622
24.19	849	263	1112	9489	0.0906	0.0984	0.1179	760	638
24.51	848	330	1177	10668	0.0898	0.0984	0.1178	768	644
25.9	897	488	1384	13614	0.0836	0.0939	0.1124	811	680
23.63	889	59	948	5196	0.0886	0.0928	0.1111	763	639
25.38	935	289	1224	10441	0.0823	0.09	0.1078	808	678
25.76	938	363	1301	11776	0.0812	0.0896	0.1073	818	686

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Code Name	Area				Stranding and wire diameter	
	AWG or	Aluminum	Steel	Total	Aluminum	Steel
		mm 2			mm	
Still	715500	362.76	47	409.77	24/4.39	7/2.92
Starling	715500	361.92	59.15	421.07	26/4.21	7/3.28
Redwing	715500	362.05	82.41	444.46	30/3.92	19/2.35
Cuckoo	795000	402.32	52.15	454.47	24/4.62	7/3.08
Drake	795000	402.55	65.44	467.98	26/4.44	7/3.45
Coot	795000	402.7	11.19	413.89	36/3.77	1/3.77
Tern	795000	403.76	27.83	431.59	45/3.38	7/2.25
Condor	795000	402.32	52.15	454.47	54/3.08	7/3.08
Mallard	795000	403.83	91.78	495.61	30/4.14	19/2.48
Ruddy	900000	455.49	31.67	487.16	45/3.59	7/2.4
Canary	900000	456.27	59.15	515.41	54/3.28	7/3.28
Catbird	954000	483.43	13.43	496.86	36/4.14	1/4.14
Rail	954000	483.83	33.54	517.37	45/3.7	7/2.47
Cardin	954000	484.51	62.81	547.32	54/3.38	7/3.38
Tenager	1033500	523.51	14.54	538.05	36/4.30	1/4.30
Ortlan	1033500	523.85	36.31	560.17	45/3.85	7/2.57
Curlew	1033500	525.48	68.12	593.6	54/3.52	7/3.52
Bluejay	1113000	565.47	38.9	604.37	45/4.0	7/2.66
Finch	1113000	545.01	71.57	636.58	54/3.65	19/2.19
Bunting	1192500	605.75	41.88	647.62	54/4.14	7/2.76
Crackle	1192500	602.77	76.89	679.66	54/3.77	19/2.27
Skylark	1272000	644.65	17.91	662.56	36/4.78	1/4.78
Bifern	1272000	644.38	44.65	689.04	45/4.27	7/2.85
Pheasant	1272000	645.06	81.71	726.77	54/3.9	19/2.34
Dipper	1351500	684.22	46.87	731.09	45/4.4	7/2.92
Martin	1351500	685.37	86.67	772.04	54/4.02	19/2.41
Bobolink	1431000	725.25	50.14	775.39	45/4.53	7/3.02
Plover	1431000	726.89	91.78	818.67	54/4.14	19/2.48
Nuthatch	1510500	764.18	52.83	817.01	54/4.65	7/3.10
Parrot	1510500	766.04	97.03	863.07	54/4.25	19/2.55
Lapwing	1590000	804.13	55.59	859.72	54/4.77	7/3.18
Falcon	1590000	806.2	102.43	908.63	54/4.36	19/2.62
Chukar	1780000	903.15	73.54	976.69	84/3.70	19/2.22
Bluebird	2156000	1092.27	88.91	1181.19	84/4.07	19/2.44
Kiwi	2167000	9098.24	47.49	1145.72	72/4.41	7/2.94
Thrasher	2312000	2171.38	63.82	1235.2	76/4.43	19/2.07
Wood Due	605000	306.54	71.53	378.07	30/3.61	7/3.61
Teal	605000	307.05	69.62	376.67	30/3.61	19/2.16
Kingbird	636000	323	17.94	340.95	18/4.78	1/4.78
Rook	636000	323.06	41.88	364.94	24/4.14	7/2.76
Grosbeak	636000	321.83	52.49	374.33	263.97	7/3.09
Scoter	636000	322.2	75.18	397.39	30/3.70	7/3.7

Approximate overall diameter	Weight[1]			Nominal breaking load	Maximum DC resistance at 20°c[2]	Maximum AC resistance		Current rating ambient temp	
	Aluminum	Steel	Total			25°c	75°c	25°c	40°c
mm	kg/km			kgf	ohm/k	ohm/km		A	
9.32	112	93	205	2254	0.6359	0.6491	0.7773	212	177
11.69	143	199	342	4486	0.4688	0.5577	0.6679	266	223
12.21	156	217	372	4885	0.4305	0.5124	0.6136	281	236
13.45	189	263	452	5899	0.3545	0.4223	0.5057	320	268
14.62	223	311	534	6931	0.3	0.3574	0.428	357	300
15.42	249	346	594	7666	0.2697	0.3217	0.3852	384	322
16.01	268	373	641	8269	0.25	0.2982	0.3571	403	338
18.14	286	609	895	12280	0.2159	0.2839	0.34	452	380
16.86	297	413	710	8896	0.2257	0.2693	0.3224	432	362
5.04	36	15	51	526	2.0444	2.0857	2.4976	96	81
6.35	58	23	81	827	1.2847	1.3108	1.5697	131	110
6.54	58	35	93	1064	1.2497	1.275	1.5269	134	113
8.02	92	37	129	1283	0.8072	0.8238	0.9865	179	150
8.25	92	56	149	1631	0.7851	0.8012	0.9595	183	153
9	116	47	163	1596	0.6404	0.6537	0.7828	208	175
10.11	147	59	206	1930	0.5072	0.5177	0.62	243	204
11.35	185	74	259	2353	0.4029	0.4115	0.4928	283	238
12.74	233	93	327	2916	0.3195	0.3266	0.3912	331	277
14.31	294	118	412	3555	0.2533	0.2593	0.3105	386	323
15.46	373	49	422	3101	0.2095	0.2148	0.2573	435	364
16.28	372	145	519	4899	0.2035	0.2185	0.2617	449	376
17.28	421	164	585	5515	0.1806	0.1944	0.2328	485	407
17.36	470	62	533	3880	0.166	0.1707	0.2044	507	425
18.29	472	183	656	6099	0.1612	0.1735	0.2077	524	439
18.83	474	263	737	7608	0.1578	0.1731	0.2073	535	448
26.42	556	74	629	4410	0.1405	0.1449	0.1735	635	533
19.62	558	173	731	6330	0.1378	0.1474	0.1765	579	486
19.88	558	217	775	7112	0.1364	0.1473	0.1764	585	490
20.47	560	311	871	8894	0.1335	0.147	0.176	597	501
20.68	667	88	755	5246	0.1171	0.1212	0.1451	638	535
21.49	670	207	878	7600	0.1148	0.1233	0.1477	653	547
21.78	670	260	930	8143	0.1137	0.1232	0.1475	659	553
22.42	672	373	1045	10558	0.1113	0.123	0.1473	673	564
22.33	778	103	881	6204	0.1004	0.1044	0.1251	705	591
23.21	782	242	1024	8728	0.0984	0.1062	0.1272	722	605
23.55	783	304	1087	9880	0.0972	0.1058	0.1267	730	612
24.21	784	435	1219	12094	0.0954	0.1066	0.1277	742	622
24.19	849	263	1112	9489	0.0906	0.0984	0.1179	760	638
24.51	848	330	1177	10668	0.0898	0.0984	0.1178	768	644
25.9	897	488	1384	13614	0.0836	0.0939	0.1124	811	680
23.63	889	59	948	5196	0.0886	0.0928	0.1111	763	639
25.38	935	289	1224	10441	0.0823	0.09	0.1078	808	678
25.76	938	363	1301	11776	0.0812	0.0896	0.1073	818	686

BS 2627 & ASTM B549

Code Name	Conductor Size	Area			Stranding and wire diameter	
		Aluminum	Steel	Total	Aluminum	Steel
	mm	mm^2			mm	
Gopher	25	26.25	4.37	30.62	6/2.36	1/2.36
Weasel	35	31.61	5.27	36.88	6/2.59	1/2.59
Ferrer	40	42.41	7.07	49.48	6/3.00	1/3.35
Rabbit	50	52.88	8.81	61.7	6/3.35	7/2.79
Horse	70	73.36	42.79	116.16	12/2.79	7/2.79
Dog	100	104.98	13.55	118.53	6/4.72	7/1.57
Wolf	150	158.05	36.88	194.93	30/2.59	7/2.59
Dingo	150	158.65	8.81	167.46	18/3.35	1/3.35
Lynx	175	183.4	42.79	226.2	30/2.79	7/2.79
Cardinal	175	184.23	10.24	194.47	18/3.61	1/3.61
Panther	200	212.05	49.48	261.53	30/3.00	7/3.00
jaguar	200	210.63	11.7	222.33	18/3.86	1/3.86
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^2				mm	
Fox	35	36.68	6.11	42.79	6/2.79	1/2.79
Mink	60	63.12	10.52	73.64	6/3.66	1/3.66
Shunk	60	63.22	36.88	100.1	12/2.59	7/2.59
Beaver	75	75.02	12.5	87.52	6/3.99	1/3.99
Raccoon	75	78.83	13.14	91.96	6/4.09	1/4.09
Otter	80	83.92	13.99	97.9	6/4.22	1/4.22
Cat	95	95.42	15.9	111.33	6/4.5	1/4.50
Hare	105	104.98	17.5	122.48	6/4.72	1/4.72
Hyena	105	105.97	20.48	126.43	7/4.39	7/1.93
Leopard	130	131.37	16.84	148.21	6/5.28	7/1.75
Tiger	130	131.23	30.62	161.85	30/2.36	7/2.36
Coyote	130	131.74	20.06	151.8	26/2.54	7/1.91
Lion	235	238.26	55.59	293.85	30/3.18	7/3.18
Bear	260	264.42	61.7	326.11	30/3.35	7/3.35
Batang	300	323	15.52	338.52	18/4.78	7/1.68
Goat	320	324.3	75.67	399.97	30/3.71	7/3.71
Antelope	370	374.1	48.49	422.59	54/2.97	7/2.97
Sheep	375	375.1	87.52	462.62	30/3.99	7/3.99
Bison	380	381.69	49.48	431.17	54/3.0	7/3.0
Deer	425	429.59	100.24	529.83	30/4.27	7/4.27
Camel	475	475.95	61.7	537.65	54/3.35	7/3.35
Elk	475	477.12	111.33	588.44	30/4.5	7/4.5
Moose	525	528.47	68.51	596.98	54/3.53	7/3.53

Sim Noor Yazdan Co.

ACSR/AW

Approximate overall diameter	Weight			Nominal breaking load	Maximum de resistance at 20 °c	Maximum AC resistance	
	Aluminum	Steel	Total			25 °c	75°c
mm	kg/km			kgf	c	m/kg	
7.08	72	29	101	452	1.0347	1.0557	1.2642
7.77	87	35	122	532	0.8591	0.8767	1.0499
9	116	47	163	685	0.6403	0.6537	0.7828
10.05	145	58	203	849	0.5135	0.5242	0.6278
13.95	203	283	487	6267	0.3295	0.3926	0.4701
14.15	288	90	378	3235	0.2619	0.278	0.329
18.13	439	244	683	6933	0.1702	0.1973	0.2362
16.75	419	58	477	2468	0.1784	0.188	0.2251
19.53	510	283	793	7993	0.1467	0.1614	0.1933
18.05	508	67	576	2831	0.1536	0.1607	0.1925
21	589	327	917	9191	0.1269	0.1402	0.1679
19.3	581	77	658	3197	0.1343	0.1385	0.1659
28.62	11.89	368	1557	13132	0.0647	0.0721	0.0863

ACSR/TW

Approximate overall diameter	Weight			Nominal breaking load	Maximum de resistance at 20 °c	Maximum AC resistance	
Aluminum	Aluminum	Steel	Total			25°c	50°c
mm	kg/km			kgf	ohm/km		
8.37	101	40	141	1359	0.7404	0.7555	0.9048
10.98	173	69	243	2221	0.4302	0.4394	0.5262
12.95	175	244	419	5419	0.3824	0.4551	0.545
11.97	206	82	288	2582	0.362	0.3697	0.4428
12.27	216	87	303	2713	0.3445	0.3522	0.4218
12.66	230	92	323	2838	0.3236	0.3308	0.3962
13.5	262	105	367	3163	0.2846	0.2909	0.3484
14.16	288	115	404	3419	0.2587	0.2648	0.3171
14.57	291	135	426	4068	0.2542	0.2746	0.3288
15.81	361	111	472	4033	0.2093	0.0006	0.2665
16.52	365	203	567	5806	0.205	0.2244	0.2687
15.89	365	133	498	4518	0.2091	0.2238	0.2681
22.26	662	368	1030	10294	0.1129	0.1248	0.1494
23.45	735	408	1143	11193	0.1017	0.113	0.1353
24.16	896	103	998	6704	0.0883	0.0936	0.1121
25.97	901	501	1402	13155	0.083	0.0933	0.1118
26.73	1037	321	1358	11594	0.0742	0.0818	0.098
27.93	1043	579	1622	15145	0.0717	0.0814	0.0975
27	1058	327	1386	11688	0.0727	0.0802	0.096
29.89	1194	663	1857	16361	0.0626	0.0718	0.0859
30.15	1320	408	1728	14325	0.0583	0.0657	0.0787
31.5	1326	737	2063	18467	0.0564	0.0654	0.0783
31.77	1465	453	1919	15572	0.0525	0.0599	0.0718