



ACSR – Aluminum Conductor Steel Reinforced

Code Word	Size (AWG or KCM)	STR (AL/STL)	Diameter (Inches)				Wt. per 1000 feet (lbs)			Content %		Rate Breaking Strength (lbs)	OHMS/1000ft		Rating (AMPS)
			Alum	Steel	Steel Core	Cable OD	Alum	Steel	Total	Alum	Steel		DC @ 20C	AC @ 75C	
Turkey	6	6/1	0.0661	0.0661	0.0661	0.198	24.5	11.6	36.1	67.90	32.10	1,190	0.6410	0.8060	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.250	39.0	18.4	57.4	67.90	32.10	1,860	0.4030	0.5150	140
Swanate	4	7/1	0.0772	0.1029	0.1029	0.257	39.0	28.0	67.0	51.13	41.87	2,360	0.3990	0.5190	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	62.0	29.3	91.3	67.90	32.10	2,850	0.2540	0.3320	164
Sparate	2	7/1	0.0974	0.1299	0.1299	0.325	62.0	44.7	106.7	58.13	41.87	3,640	0.2510	0.3380	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.2	36.9	115.1	67.90	32.10	3,550	0.2010	0.2580	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.7	46.6	145.3	67.90	32.10	4,380	0.1490	0.2170	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.3	58.7	183.0	67.90	32.10	5,300	0.1260	0.1760	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.7	74.0	230.7	67.90	32.10	6,620	0.1000	0.1440	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.7	93.4	291.1	67.90	32.10	8,350	0.0795	0.1190	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	250.3	39.2	289.5	86.45	13.55	6,880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2364	0.642	251.7	115.6	367.2	68.53	31.47	11,130	0.0637	0.0779	475
Ostrich	300.0	26/7	0.1074	0.0835	0.2505	0.680	282.9	129.8	412.7	68.53	31.47	12,700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.683	315.8	49.5	365.2	86.45	13.55	8,680	0.0510	0.0625	519
Linnet	336.4	26/7	0.1137	0.1137	0.2642	0.720	317.1	145.4	462.5	68.53	31.47	14,100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.3177	0.741	318.2	208.9	527.1	60.35	39.65	17,800	0.0505	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	373.1	58.5	431.6	86.45	13.55	9,940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	375.0	137.0	512.0	73.23	26.77	14,500	0.0430	0.0526	584
Ibis	397.5	25/7	0.1236	0.0961	0.2882	0.783	374.7	171.9	546.6	68.53	31.47	16,300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.8	246.8	622.6	60.35	39.65	20,300	0.0425	0.0519	594
Pelican	477.0	18/1	0.1628	0.1628	0.1628	0.814	447.8	70.2	518.0	86.45	13.55	11,800	0.0360	0.0442	646
Flicker	477.0	24/7	0.1410	0.0940	0.2820	0.846	450.1	164.4	614.5	73.23	26.77	17,200	0.0358	0.0439	655
Hawk	477.0	26/7	0.1354	0.1053	0.3159	0.858	449.6	205.4	656.0	68.53	31.47	19,500	0.0356	0.0436	659
Hen	477.0	30/7	0.1261	0.1261	0.3783	0.883	451.1	296.2	747.3	60.35	39.65	23,800	0.0540	0.0433	666
Osprey	556.5	18/1	0.1758	0.1758	0.1758	0.879	522.2	81.8	604.0	86.45	13.55	13,700	0.0308	0.0379	711
Parakeet	556.5	24/7	0.1523	0.1015	0.3045	0.914	525.1	191.7	716.8	73.23	26.77	19,800	0.0307	0.0376	721
Dove	556.5	26/7	0.1463	0.1138	0.3414	0.927	525.0	241.0	766.0	68.53	31.47	22,500	0.0306	0.0375	726
Eagle	556.5	30/7	0.1632	0.1362	0.4086	0.953	526.3	245.6	871.9	60.35	39.65	27,800	0.0303	0.0372	734
Peacock	605.0	24/7	0.1588	0.1059	0.3177	0.953	570.4	208.7	779.6	73.23	26.77	21,600	0.0282	0.0346	760
Squab	605.0	26/7	0.1525	0.1186	0.3558	0.966	570.4	261.8	832.2	68.53	31.47	24,300	0.0281	0.0345	765
Wood Duck	605.0	30/7	0.1420	0.1420	0.4260	0.994	582.0	375.6	947.6	60.35	39.65	28,900	0.0279	0.0342	774
Teal	605.0	30/19	0.1420	0.0852	0.4260	0.994	582.0	367.4	939.4	60.89	39.11	30,000	0.0278	0.0342	773
Kingbird	636.0	18/1	0.1880	0.1180	0.1880	0.940	497.2	93.6	690.8	86.45	13.55	15,700	0.0270	0.0342	773
Swift	636.0	36/1	0.1329	0.1329	0.1329	0.930	596.9	46.8	643.7	92.72	7.28	13,800	0.0271	0.0344	769
Rook	636.0	24/7	0.1628	0.1085	0.3255	0.977	600.0	219.1	819.1	73.23	26.77	22,600	0.0268	0.0330	784
Grosbeak	636.0	26/7	0.1564	0.1216	0.3648	0.990	599.2	276.2	874.1	68.53	31.47	25,200	0.0267	0.0328	789
Scoter	636.0	30/7	0.1456	0.1456	0.4368	1.019	601.4	394.9	996.3	60.35	39.65	30,400	0.0256	0.0325	798
Egret	636.0	30/19	0.1456	0.0874	0.4370	1.019	601.4	386.6	988.0	60.89	39.11	31,500	0.0266	0.0326	798

All values are nominal and subject to correction

* Current ratings based on 75°C conductor temperature, 25°C ambient, 2st wind, 96watts/sq. foot sun. 0.5 coefficients of emissivity and absorption

Application: Used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding for desired strength without sacrificing ampacity.

Conductors: Aluminum alloy 1350-H119 wires, concentrically stranded around a steel core available with Class A, B or C galvanizing; aluminum coated (AZ); or aluminum-clad steel core (AL). Additional corrosion is available through the application of grease to the core or infusion of the complete cable with grease.

Standards: ACSR bare cable meets or exceeds the following ASTM specifications:

- B-230 Aluminum wire, 1350-H19 for Electrical Purposes
- B-231 Aluminum conductors, concentric lay stranded
- B-232 Aluminum conductors, concentric lay stranded, coated steel reinforced (ACSR)
- B-341 Aluminum coated steel core wire for aluminum conductors, steel reinforced (ACSR/AZ)
- B-498 Zinc coated steel core wire for aluminum conductors, steel reinforced (ACSR)
- B-500 Metallic coated stranded steel core for aluminum conductors, steel reinforced (ACSR)

1-877-611-5122



continued

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			Alum	Steel	Steel Core	Cable OD	Alum	Steel	Total	Alum	Steel		DC @ 20C	AC @ 75C	
Flamingo	666.6	24/7	0.1667	0.1110	0.3330	1.000	629.1	229.7	858.8	73.23	26.77	23,700	0.0256	0.0315	807
Gannet	666.6	26/7	0.1501	0.1245	0.2725	1.014	628.7	288.5	917.2	68.53	31.47	26,400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	675.2	246.5	921.7	73.23	26.77	25,500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.1290	0.3870	1.051	375.0	309.7	984.7	68.53	31.47	28,400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.9260	0.4630	1.081	676.3	434.0	1110.0	60.89	39.11	34,600	0.0236	0.0290	859
Coot	795.0	36/1	0.1486	0.1486	0.1486	1.040	746.2	58.5	804.7	92.80	7.20	16,800	0.0217	0.0268	884
Cuckoo	795.0	24/7	0.1820	0.1213	0.3640	1.092	749.9	273.8	1024.0	72.23	27.77	27,900	0.0215	0.0265	901
Drake	795.0	26/7	0.1749	0.1360	0.4080	1.108	750.3	344.2	1094.0	68.53	31.47	31,500	0.0214	0.0261	907
Tern	795.0	45/7	0.1329	0.8886	0.2660	1.063	749.8	146.1	895.9	83.69	16.31	22,100	0.0216	0.0269	887
Condor	795.0	54/7	0.1213	0.1213	0.3639	1.092	749.5	273.6	1023.0	73.25	26.75	28,200	0.0215	0.0272	889
Mallard	795.0	30/19	0.1628	0.0977	0.4885	1.140	751.9	483.1	1235.0	60.89	39.11	37,400	0.0213	0.0261	918
Ruddy	900.0	45/7	0.1414	0.0943	0.2829	1.131	848.7	165.5	1014.0	83.69	16.31	24,400	0.0191	0.0239	958
Canary	900.0	54/7	0.1291	0.1291	0.3873	1.162	849.0	309.9	1149.0	73.25	26.75	31,900	0.0190	0.0241	961
Rail	954.0	45/7	0.1456	0.0971	0.2913	1.165	899.9	175.5	1075.0	83.69	16.31	25,900	0.0180	0.0225	993
Cardinal	954.0	54/7	0.1329	0.1329	0.3987	1.196	900.7	328.4	1228.0	73.25	26.75	33,800	0.0179	0.0228	996
Ortolan	1033.5	45/7	0.1515	0.1010	0.3030	1.212	974.3	189.8	1164.0	83.69	16.31	27,700	0.0167	0.0209	1043
Curlew	1033.5	54/7	0.1383	0.1383	0.4149	1.245	974.3	355.6	1330.0	73.25	26.75	36,600	0.0165	0.0211	1047
Bluejay	1113.0	45/7	0.1573	0.1049	0.3147	1.259	1050.0	204.8	1225.0	83.69	16.31	29,800	0.0155	0.0194	1092
Finch	1113.0	54/19	0.1436	0.0862	0.4310	1.293	1056.0	276.1	1432.0	73.75	26.25	39,100	0.0154	0.0197	1093
Bunting	1192.5	45/7	0.1628	0.1085	0.3255	1.302	1125.0	219.1	1344.0	83.69	16.31	32,000	0.0144	0.0182	1139
Grackle	1192.5	54/19	0.1486	0.0892	0.4460	1.338	1130.0	402.7	1533.0	73.75	26.25	41,900	0.0144	0.0184	1140
Bittern	1272.0	45/7	0.1681	0.1121	0.3363	1.345	1200.0	233.9	1433.0	83.69	16.31	34,100	0.0135	0.0171	1184
Pheasant	1272.0	54/19	0.1535	0.0921	0.4605	1.382	1206.0	429.3	1635.0	73.75	26.25	43,500	0.0135	0.0173	1187
Dipper	1351.5	45/7	0.1733	0.1155	0.3465	1.386	1275.0	248.3	1525.0	83.69	16.31	36,200	0.0127	0.0162	1229
Martin	1351.5	54/19	0.1582	0.9049	0.4745	1.424	1281.0	455.8	1737.0	72.75	27.25	46,300	0.0127	0.0163	1232
Bobolink	1431.0	45/7	0.1783	0.1189	0.3567	1.427	1350.0	263.1	1613.0	83.69	16.31	38,300	0.0120	0.0153	1272
Plover	1731.0	54/19	0.1628	0.0977	0.4885	1.465	1357.0	483.1	1840.0	73.75	26.25	49,100	0.0120	0.0155	1275
Nuthatch	1510.5	45/7	0.1832	0.1221	0.3663	1.465	1425.0	277.4	1702.0	83.69	16.31	40,100	0.0144	0.0146	1313
Parrot	1510.5	54/19	0.1672	0.1003	0.5015	1.505	1431.0	509.2	1940.0	73.75	26.25	51,700	0.0114	0.0147	1318
Lapwing	1590.0	45/7	0.1880	0.1253	0.3759	1.504	1499.0	292.2	1793.0	83.69	16.31	42,200	0.0108	0.0139	1354
Falcon	1590.0	54/19	0.1716	0.1030	0.5150	1.454	1499.0	537.0	2044.0	73.75	26.25	54,500	0.0180	0.0137	1359
Chukar	1780.0	84/19	0.1456	0.8740	0.4370	1.602	1688.0	386.6	2975.0	81.30	18.70	51,000	0.0097	0.0125	1453
Bluebird	2156.0	84/19	0.1602	0.0961	0.4805	1.762	2044.0	467.4	2511.0	81.30	18.70	60,300	0.0081	0.0106	1623
Kiwi	2167.0	72/7	0.1735	0.1157	0.3471	1.735	2055.0	248.9	2303.0	89.20	10.80	49,800	0.0080	0.0106	1607
Thrasher	2312.0	76/19	0.1744	0.0814	0.4070	1.802	2191.0	335.4	2527.0	86.73	13.27	56,700	0.0075	0.0100	1673

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