

## 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	67.9	32.1	1,190	0.641	0.806	105
Sw an	4	6/1	0.0834	0.0834	0.0834	0.25	39	18.4	57.4	67.9	32.1	1,860	0.403	0.515	140
Sw anate	4	7/1	0.0772	0.1029	0.1029	0.257	39	28	67	51.13	41.87	2,360	0.399	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	62	29.3	91.3	67.9	32.1	2,850	0.254	0.332	164
Sparate	2	7/1	0.0974	0.1299	0.1299	0.325	62	44.7	106.7	58.13	41.87	3,640	0.251	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.2	36.9	115.1	67.9	32.1	3,550	0.201	0.258	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.7	46.6	145.3	67.9	32.1	4,380	0.149	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.3	58.7	183	67.9	32.1	5,300	0.126	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.7	74	230.7	67.9	32.1	6,620	0.1	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.7	93.4	291.1	67.9	32.1	8,350	0.0795	0.119	357
Waxw ing	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	26/7	0.1074	0.0835	0.2505	0.68	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	0.051	0.0625	519
Linnet	336.4	26/7	0.1137	0.1137	0.2642	0.72	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	137	512	73.23	26.77	14,500	0.043	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	18/1	0.1628	0.1628	0.1628	0.814	447.8	70.2	518	86.45	13.55	11,800	0.036	0.0442	646
Flicker	477	24/7	0.141	0.094	0.282	0.846	450.1	164.4	614.5	73.23	26.77	17,200	0.0358	0.0439	655
Haw k	477	26/7	0.1354	0.1053	0.3159	0.858	449.6	205.4	656	68.53	31.47	19,500	0.0356	0.0436	659
Hen	477	30/7	0.1261	0.1261	0.3783	0.883	451.1	296.2	747.3	60.35	39.65	23,800	0.054	0.0433	666
Osprey	556.5	18/1	0.1758	0.1758	0.1758	0.879	522.2	81.8	604	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	241	766	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	771.9	60.35	39.65	27,800	0.0303	0.0372	734
Peacock	605	24/7	0.1588	0.1059	0.3177	0.953	570.4	208.7	779.6	73.23	26.77	21,600	0.0282	0.346	760
Squab	605	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 Duc	605	30/7	0.142	0.142	0.426	0.994	582	375.6	947.6	60.35	39.65	28,900	0.0279	0.0342	774
Teal	605	30/19	0.142	0.0852	0.426	0.994	582	367.4	939.4	60.89	39.11	30,000	0.0278	0.0342	773
Kingbird	636	18/1	0.188	0.118	0.188	0.94	497.2	93.6	690.8	86.45	13.55	15,700	0.027	0.0342	773
Sw ift	636	36/1	0.1329	0.1329	0.1329	0.93	596.9	46.8	643.7	92.72	7.28	13,800	0.0271	0.0344	769
Rook	636	24/7	0.1628	0.1085	0.3255	0.977	600	219.1	819.1	73.23	26.77	22,600	0.0268	0.033	784
Grosbeak	636	26/7	0.1564	0.1216	0.3648	0.99	599.2	276.2	874.1	68.53	31.47	25,200	0.0267	0.0328	789
Scoter	636	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	30/19	0.1456	0.0874	0.437	1.019	601.4	386.6	988	60.89	39.11	31,500	0.0266	0.0326	798

All values are nominal and subject to correction

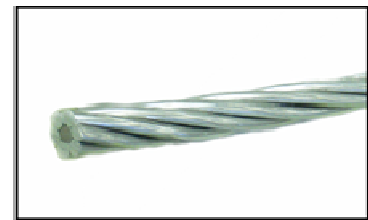
\* Current ratings based on 75°C conductor temperature, 25°C ambient, 2st wind, 96watts/sq. foot sun. 0.5 coefficients of emissivity and absorption

**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)  
**RUS ACCEPTED**

**1-800-945-5542**



## (Continued) ACSR – Aluminum Conductor Steel Reinforced

Code Word	Size (AWG or KCM)	STR (AL/STL)	Diameter (Inches)				Weight (lbs) per 1000 feet			Content %		Rate Breaking Strength (lbs)	OHMS/1000ft		Rating (Amps)
			Alum	Steel	Steel Core	Cable O.D.	Alum	Steel	Total	Alum	Steel		DC @ 20C	AC @ 75C	
Flamingo	666.6	24/7	0.1667	0.111	0.333	1	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	0.129	0.387	1.051	375	309.7	984.7	68.53	31.47	28,400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.926	0.463	1.081	676.3	434	1110	60.89	39.11	34,600	0.0236	0.029	859
Coot	795	36/1	0.1486	0.1486	0.1486	1.04	746.2	58.5	804.7	92.8	7.2	16,800	0.0217	0.0268	884
Cuckoo	795	24/7	0.182	0.1213	0.364	1.092	749.9	273.8	1024	72.23	27.77	27,900	0.0215	0.0265	901
Drake	795	26/7	0.1749	0.136	0.408	1.108	750.3	344.2	1094	68.53	31.47	31,500	0.0214	0.0261	907
Tern	795	45/7	0.1329	0.8886	0.266	1.063	749.8	146.1	895.9	83.69	16.31	22,100	0.0216	0.0269	887
Condor	795	54/7	0.1213	0.1213	0.3639	1.092	749.5	273.6	1023	73.25	26.75	28,200	0.0215	0.0272	889
Mallard	795	30/19	0.1628	0.0977	0.4885	1.14	751.9	483.1	1235	60.89	39.11	37,400	0.0213	0.0261	918
Ruddy	900	45/7	0.1414	0.0943	0.2829	1.131	848.7	165.5	1014	83.69	16.31	24,400	0.0191	0.0239	958
Canary	900	54/7	0.1291	0.1291	0.3873	1.162	849	309.9	1149	73.25	26.75	31,900	0.019	0.0241	961
Rail	954	45/7	0.1456	0.0971	0.2913	1.165	899.9	175.5	1075	83.69	16.31	25,900	0.018	0.0225	993
Cardinal	954	54/7	0.1329	0.1329	0.3987	1.196	900.7	328.4	1228	73.25	26.75	33,800	0.0179	0.0228	996
Ortolan	1033.5	45/7	0.1515	0.101	0.303	1.212	974.3	189.8	1164	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	73.25	26.75	36,600	0.0165	0.0211	1047
Bluejay	1113	45/7	0.1573	0.1049	0.3147	1.259	1050	204.8	1225	83.69	16.31	29,800	0.0155	0.0194	1092
Finch	1113	54/19	0.1436	0.0862	0.431	1.293	1056	276.1	1432	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	219.1	1344	83.69	16.31	32,000	0.0144	0.0182	1139
Grackle	1192.5	54/19	0.1486	0.0892	0.446	1.338	1130	402.7	1533	73.75	26.25	41,900	0.0144	0.0184	1140
Bittern	1272	45/7	0.1681	0.1121	0.3363	1.345	1200	233.9	1433	83.69	16.31	34,100	0.0135	0.0171	1184
Pheasant	1272	54/19	0.1535	0.0921	0.4605	1.382	1206	429.3	1635	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	248.3	1525	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	455.8	1737	72.75	27.25	46,300	0.0127	0.0163	1232
Bobolink	1431	45/7	0.1783	0.1189	0.3567	1.427	1350	263.1	1613	83.69	16.31	38,300	0.012	0.0153	1272
Plover	1731	54/19	0.1628	0.0977	0.4885	1.465	1357	483.1	1840	73.75	26.25	49,100	0.012	0.0155	1275
Nuthatch	1510.5	45/7	0.1832	0.1221	0.3663	1.465	1425	277.4	1702	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	509.2	1940	73.75	26.25	51,700	0.0114	0.0147	1318
Lapwing	1590	45/7	0.188	0.1253	0.3759	1.504	1499	292.2	1793	83.69	16.31	42,200	0.0108	0.0139	1354
Falcon	1590	54/19	0.1716	0.103	0.515	1.454	1499	537	2044	73.75	26.25	54,500	0.018	0.0137	1359
Chukar	1780	84/19	0.1456	0.874	0.437	1.602	1688	386.6	2975	81.3	18.7	51,000	0.0097	0.0125	1453
Bluebird	2156	84/19	0.1602	0.0961	0.4805	1.762	2044	467.4	2511	81.3	18.7	60,300	0.0081	0.0106	1623
Kiwi	2167	72/7	0.1735	0.1157	0.3471	1.735	2055	248.9	2303	89.2	10.8	49,800	0.008	0.0106	1607
Thrasher	2312	76/19	0.1744	0.0814	0.407	1.802	2191	335.4	2527	86.73	13.27	56,700	0.0075	0.01	1673

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

**1-800-945-5542**