

ACSR - Aluminum Conductor Steel Reinforced

Product Description

Bare EC grade hard-drawn aluminum conductors stranded around an inner core of galvanized steel wire(s). Available in sizes 6 AWG through 2750 MCM.

Application

Overhead electrical distribution and transmission lines.

Product Data

ACSR-Bare Aluminum Conductor Steel Reinforced

Code Word	Size (AWG or KCMIL)	Stranding (Al/Stl)	Diameter (inches)			Weight Per 1000ft (lbs.)			Rated Strength (lbs.)	Resistance OHMS/1000ft.		Allowable Ampacity+ (Amps)
			AL	Steel	Complete Cable	AL	Steel	Total		DC @ 20°C	AC @ 75°C	
Turkey	6	6/1	.0661	.0661	.1980	24.5	11.6	36.1	1190	.641	.806	105
Swan	4	6/1	.0834	.0834	.2500	39.0	18.4	57.4	1860	.403	.515	140
Swanate	4	7/1	.0772	.1030	.2570	39.0	28.0	67.0	2360	.399	.519	140
Sparrow	2	6/1	.1052	.1052	.3160	62.0	29.3	91.3	2850	.254	.332	184
Sparate	2	7/1	.0974	.1298	.3250	62.0	44.7	106.7	3460	.251	.338	184
Robin	1	6/1	.1181	.1181	.3550	78.2	37.0	115.2	3550	.201	.268	212
Raven	1/0	6/1	.1327	.1327	.3980	98.7	46.6	145.3	4380	.159	.217	242
Quail	2/0	6/1	.1489	.1489	.4470	124.3	58.8	183.1	5310	.126	.176	276
Pigeon	3/0	6/1	.1672	.1672	.5020	156.7	74.1	230.8	6620	.100	.144	315
Penguin	4/0	6/1	.1878	.1878	.5630	197.7	93.4	291.1	8350	.0795	.119	357
Waxwing	266.8	18/1	.1217	.1217	.6090	250.3	39.2	289.5	6880	.0643	.0787	449
Partridge	266.8	26/7	.1013	.0788	.6420	251.7	115.6	367.3	11300	.0637	.0779	475
Ostrich	300.0	26/7	.1074	.0835	.6800	283.0	130.0	412.0	12700	.0567	.0693	492
Merlin	336.4	18/1	.1367	.1367	.6840	315.8	49.5	365.3	8680	.0510	.0625	519
Linnet	336.4	26/7	.1137	.0885	.7210	317.1	145.5	462.6	14100	.0505	.0618	529

Oriole	336.4	30/7	.1059	.1059	.7410	381.0	209.0	526.0	17300	.0502	.0613	535
Chickadee	397.5	18/1	.1486	.1486	.7430	373.1	58.5	431.6	9940	.0432	.0529	576
Brant	397.5	24/7	.1287	.0858	.7720	374.0	137.0	511.0	14600	.0430	.0526	584
Ibis	397.5	26/7	.1236	.0962	.7930	374.7	171.9	546.6	16300	.0428	.0523	587
Lark	397.5	30/7	.1151	.1151	.8060	375.0	247.0	622.0	20300	.0425	.0519	594
Pelican	477.0	18/1	.1628	.1628	.8140	447.8	70.2	518.0	11800	.0360	.0442	646
Flicker	477.0	24/7	.1410	.094	.8460	449.0	164.0	614.0	17200	.0358	.0439	655
Hawk	477.0	26/7	.1354	.1053	.8580	449.6	206.4	656.0	19500	.0356	.0436	659
Hen	477.0	30/7	.1261	.1261	.8830	451.1	296.3	747.4	23800	.0354	.0433	666
Osprey	556.5	18/1	.1758	.1758	.8790	522.0	82.0	603.0	13700	.0308	.0379	711
Parakeet	556.5	24/7	.1523	.1015	.9140	525.0	191.8	716.8	19800	.0307	.0376	721
Dove	556.5	26/7	.1463	.1138	.9270	525.0	241.0	766.0	22600	.0306	.0375	726
Eagle	556.5	30/7	.1362	.1362	.9530	525.0	345.0	871.0	27800	.0303	.0372	734
Peacock	605.0	24/7	.1588	.1059	.9530	570.0	209.0	779.0	21600	.0282	.0346	760
Squab	605.0	26/7	.1525	.1186	.9660	570.0	262.0	832.0	24300	.0281	.0345	765
Wood Duck	605.0	30/7	.1420	.1420	.9940	571.0	375.0	946.0	28900	.0279	.0342	774
Teal	605.0	30/19	.1420	.0852	.9940	571.0	367.0	939.0	30000	.0279	.0342	773
Kingbird	636.0	18/1	.1880	.1880	.9400	597.2	93.6	690.8	15700	.0270	.0332	773
Swift	636.0	36/1	.1329	.1329	.9300	596.0	47.0	643.0	13690	.0271	.0334	769
Rook	636.0	24/7	.1628	.1085	.9770	600.0	219.2	819.2	22600	.0268	.0330	784
Grosbeak	636.0	26/7	.1564	.1216	.9900	600.0	275.2	875.2	25200	.0267	.0328	789
Scoter	636.0	30/7	.1456	.1456	1.0190	600.0	395.0	995.0	30400	.0256	.0325	798
Egret	636.0	30/19	.1456	.0874	1.0190	600.0	386.0	987.0	31500	.0266	.0326	798
Flamingo	666.6	24/7	.1667	.1111	1.0000	629.1	229.8	858.9	23700	.0256	.0315	807
Gannet	666.6	24/7	.1601	.1245	1.0140	629.0	289.0	916.0	26400	.0255	.0313	812
Stilt	715.5	24/7	.1727	.1151	1.0360	674.0	247.0	920.0	25500	.0239	.0294	844
Starling	715.5	26/7	.1659	.1290	1.0510	674.0	310.0	984.0	28400	.0238	.0292	849
Redwing	715.5	30/19	.1544	.0927	1.0810	676.0	435.0	1110.0	34600	.0236	.0290	859
Coot	795.0	36/1	.1486	.1486	1.0400	745.0	58.0	804.0	16710	.0217	.0268	884
Drake	795.0	26/7	.1749	.1360	1.1080	750.0	344.0	1094.0	31500	.0214	.0263	907
Tern	795.0	45/7	.1329	.0886	1.0630	749.0	146.0	895.0	22100	.0216	.0269	887
Condor	795.0	54/7	.1213	.1213	1.0920	749.0	274.0	1023.0	28200	.0215	.0272	889
Mallard	795.0	30/19	.1628	.0977	1.1400	751.0	483.0	1234.0	38400	.0213	.0261	918
Ruddy	900.0	45/7	.1414	.0943	1.1310	849.0	166.0	1015.0	24400	.0191	.0239	958
Canary	900.0	54/7	.1291	.1291	1.1620	849.0	310.0	1159.0	31900	.0190	.0241	961
Catbird	954.0	36/1	.1628	.1628	1.1400	896.0	70.0	966.0	--	--	--	--
Rail	954.0	45/7	.1456	.0971	1.1650	900.0	176.0	1076.0	25900	.0181	.0225	993
Cardinal	954.0	54/7	.1329	.1329	1.1960	900.0	329.0	1229.0	33800	.0179	.0228	996

Ortolan	1033.5	45/7	.1515	.1010	1.2120	974.0	190.0	1163.0	27700	.0167	.0209	1043
Curlew	1033.5	54/7	.1383	.1383	1.2440	974.0	356.0	1330.0	36600	.0165	.0211	1047
Bluejay	1113.0	45/7	.1573	.1048	1.2590	1050.0	205.0	1255.0	29800	.0155	.0194	1092
Finch	1113.0	54/19	.1436	.0861	1.2930	1055.0	376.0	1431.0	39100	.0154	.0197	1093
Bunting	1192.5	45/7	.1628	.1085	1.3020	1125.0	219.0	1344.0	32000	.0144	.0182	1139
Grackle	1192.5	54/19	.1486	.0892	1.3370	1129.0	402.0	1531.0	41900	.0144	.0184	1140
Bittern	1272.0	45/7	.1681	.1121	1.3450	1200.0	234.0	1434.0	34100	.0135	.0171	1184
Pheasant	1272.0	54/19	.1535	.0921	1.3810	1204.0	429.0	1633.0	43600	.0135	.0173	1187
Dipper	1351.5	45/7	.1733	.1155	1.3860	1273.0	248.0	1521.0	36200	.0127	.0162	1229
Martin	1351.5	54/19	.1582	.0949	1.4240	1279.0	456.0	1735.0	46300	.0127	.0163	1232
Bobolink	1431.0	45/7	.1783	.1189	1.4270	1348.0	263.0	1611.0	38300	.0120	.0153	1272
Lapwing	1590.0	45/7	.1880	.1253	1.5040	1498.0	292.0	1790.0	42200	.0108	.0139	1354
Falcon	1590.0	54/19	.1716	.1030	1.5440	1505.0	536.0	2041.0	54500	.0108	.0140	1359
Chukar	1780.0	84/19	.1456	.0874	1.6020	1685.0	386.0	2072.0	51000	.0097	.0125	1453
Bluebird	2156.0	84/19	.1602	.0962	1.7620	2040.0	468.0	2508.0	60300	.00801	.0105	1623
Kiwi	2167.0	72/7	.1735	.1157	1.7350	2051.0	249.0	2300.0	49800	.00801	.0106	1607

HS ACSR-High Strength Aluminum Conductor Steel Reinforced

Code Word	Size (AWG or KCMIL)	Stranding (Al/Stl)	Diameter (inches)			Weight Per 1000ft (lbs.)			Rated Strength (lbs.)	Resistance OHMS/1000ft.		Allowable Ampacity+ (Amps)
			AL	Steel	Complete Cable	AL	Steel	Total		DC @ 20°C	AC @ 75°C	
Grouse	80.0	8/1	.1000	.1667	.367	75.1	73.9	149.0	5200	.207	.294	204
Petrel	101.8	12/7	.0921	.0921	.461	95.9	158.1	254.1	10400	.158	.250	237
Minorca	110.8	12/7	.0961	.0962	.481	103.9	172.1	276.6	11300	.145	.235	248
Leghorn	134.6	12/7	.1059	.1059	.530	126.9	209.1	336.0	13600	.120	.204	273
Guinea	159.0	12/7	.1151	.1151	.576	149.1	246.9	396.8	16000	.101	.181	297
Dotterel	176.9	12/7	.1214	.1214	.607	166.8	274.6	441.4	17300	.0911	.169	312
Dorking	190.8	12/7	.1261	.1261	.631	179.7	296.3	476.0	18700	.0845	.160	324
Brahma	203.2	16/19	.1127	.0977	.714	191.7	485.1	675.8	---	---	---	---
Cochin	211.3	12/7	.1327	.1327	.663	198.8	328.2	527.0	28400	.0763	.150	340

+Conductor temperature of 75 C, ambient temperature 25 C, emissivity 0.5, wind 2 ft./sec. in sun.

*Manufactured with pride in DeKalb, IL USA.

Specification Data

ASTM B-230	Aluminum 1350-H19 wire for electrical purposes
ASTM B-232	Concentric-lay-stranded aluminum conductors, coated-steel reinforced (ACSR)
ASTM B-498	Zinc-coated (galvanized) steel core wire for aluminum

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