KINGWIRE

(847) 688-1100

ACSR ALUMINUM CONDUCTOR STEEL REINFORCED

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 enables desired strength to be achieved without sacrificing ampacity.

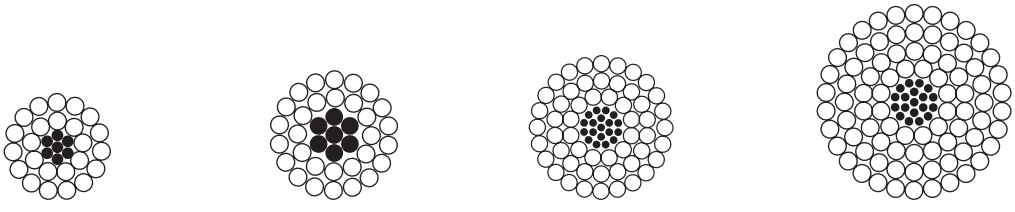
PRODUCT FEATURES: Aluminum alloy 1350-H-19 wires, concentrically stranded about one steel core. Core wire for ACSR is available with class A, B, or C galvanizing; “aluminized” aluminum coated (AZ); or aluminum-clad (AW). Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.

SPECIFICATIONS: ACSR bare conductor 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
- ***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/AZ)
- ***B-500*** Zinc-Coated and Aluminum-Coated Stranded Steel Core for Aluminum Conductors, Steel Reinforced (ACSR)

6/1 18/1 36/1 12/7 26/7

AL/STL:



45/7 54/7 54/19 84/19

KINGWIRE ACSR - Aluminum Conductor Steel Reinforced

Code Word	Size	Stranding (AL/STL)	Diameter				Weight			Weight %		Rated Breaking Strength	Resistance[1]		Ampacity Rating[2]
			Indiv. Wire AL	Indiv. Wire STL	Steel Core	Complete Cable OD	AL	STL	Total	AL	STL		DC @ 20°C	AC @ 75°C	
	AWG or Kcmil	#	inch				lbs/1000ft			%		lbs	Ω/1000ft		amps
Turkey	6	6/1	0.0661	0.0661	0.0661	0.198	24.5	11.6	36.1	67.9	32.1	1190	0.641	0.806	105
Swan	4	6/1	0.0834	0.0834	0.0834	0.250	39.0	18.4	57.4	67.9	32.1	1860	0.403	0.515	140
Swanate	4	7/1	0.0772	0.1029	0.1029	0.257	39.0	28.0	67.0	58.2	41.8	2360	0.399	0.519	140
Sparrow	2	6/1	0.1052	0.1052	0.1052	0.316	62.0	29.3	91.3	67.9	32.1	2850	0.254	0.332	184
Sparate	2	7/1	0.0974	0.1299	0.1299	0.325	62.0	44.7	107	58.1	41.9	3640	0.251	0.338	184
Robin	1	6/1	0.1181	0.1181	0.1181	0.354	78.2	36.9	115	67.9	32.1	3550	0.201	0.258	212
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.7	46.6	145	67.9	32.1	4380	0.149	0.217	242
Quail	2/0	6/1	0.1489	0.1489	0.1489	0.447	124	58.7	183	67.9	32.1	5300	0.126	0.176	276
Pigeon	3/0	6/1	0.1672	0.1672	0.1672	0.502	157	74.0	231	67.9	32.1	6620	0.100	0.144	315
Penguin	4/0	6/1	0.1878	0.1878	0.1878	0.563	198	93.4	291	67.9	32.1	8350	0.0795	0.119	357
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	250	39.2	290	86.5	13.5	6880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2364	0.642	252	116	367	68.5	31.5	11300	0.0637	0.0779	475
Ostrich	300	26/7	0.1074	0.8350	0.2505	0.680	283	130	413	68.5	31.5	12700	0.0567	0.0693	492
Merlin	336.4	18/1	0.1367	0.1367	0.1367	0.683	316	49.5	365	86.4	13.6	8680	0.0510	0.0625	519
Linnet	336.4	26/7	0.1137	0.0884	0.2642	0.720	317	145	463	68.6	31.4	14100	0.0505	0.0618	529
Oriole	336.4	30/7	0.1059	0.1059	0.3117	0.741	318	209	527	60.4	39.6	17800	0.0505	0.0613	535
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	373	58.5	432	86.4	13.6	9940	0.0432	0.0529	576
Brant	397.5	24/7	0.1287	0.0858	0.2574	0.772	375	137	512	73.2	26.8	14500	0.0430	0.0526	584
Ibis	397.5	26/7	0.1236	0.0961	0.2882	0.783	375	172	547	68.6	31.4	16300	0.0428	0.0523	587
Lark	397.5	30/7	0.1151	0.1151	0.3453	0.806	376	247	623	60.4	39.6	20300	0.0425	0.0519	594
Pelican	477	18/1	0.1628	0.1628	0.1628	0.814	448	70.2	518	86.4	13.6	11800	0.0360	0.0442	646
Flicker	477	24/7	0.1410	0.0940	0.2820	0.846	450	164	615	73.2	26.8	17200	0.0358	0.0439	655
Hawk	477	26/7	0.1354	0.1053	0.3159	0.858	450	205	655	68.6	31.4	19500	0.0356	0.0436	659
Hen	477	30/7	0.1261	0.1261	0.3783	0.883	451	298	749	60.2	39.8	23800	0.0354	0.0433	666
Osprey	565.5	18/1	0.1758	0.1758	0.1758	0.879	522	81.8	604	86.5	13.5	13700	0.0308	0.0379	711
Parakeet	565.5	24/7	0.1523	0.1015	0.3045	0.914	525	192	717	73.3	26.7	19800	0.0307	0.0376	721
Dove	565.5	26/7	0.1463	0.1138	0.3414	0.927	525	241	766	68.5	31.5	22500	0.0306	0.0375	726
Eagle	565.5	30/7	0.1362	0.1362	0.4086	0.953	526	346	872	60.4	39.6	27800	0.0303	0.0372	734
Peacock	605	24/7	0.1588	0.1059	0.3177	0.953	570	209	779	73.2	26.8	21600	0.0282	0.0346	760
Squab	605	26/7	0.1525	0.1186	0.3558	0.966	570	262	832	68.5	31.5	24300	0.0281	0.0345	765
Wood Duck	605	30/7	0.1420	0.1420	0.4260	0.994	572	376	948	60.4	39.6	28900	0.0279	0.0342	774
Teal	605	30/19	0.1420	0.0852	0.4260	0.994	572	367	939	60.9	39.1	30000	0.0278	0.0342	773
Kingbird	636	18/1	0.1880	0.1880	0.1880	0.940	596	93.6	690	86.4	13.6	15700	0.0270	0.0332	773
Swift	636	36/1	0.1329	0.1329	0.1329	0.930	597	46.8	644	92.7	7.27	13800	0.0271	0.0334	769
Rook	636	24/7	0.1628	0.1085	0.3255	0.977	600	219	819	73.3	26.7	22600	0.0268	0.033	784
Grosbeak	636	26/7	0.1564	0.1216	0.3648	0.990	599	276	875	68.4	31.6	25200	0.0267	0.0328	789
Scoter	636	30/7	0.1456	0.1456	0.4368	1.019	601	395	996	60.4	39.6	30400	0.0256	0.0325	798
Egret	636	30/19	0.1456	0.0874	0.4370	1.019	601	387	988	60.9	39.1	31500	0.0266	0.0326	798

1. Resistance is calculated based on metal conductivities of 61.2% IACS for aluminum EC (1350), and 8% IACS for steel.
2. Ampacity ratings are based on 75°C conductor temperature, 25°C ambient, 2ft/sec wind, in sun (96 W/ft2 heat), 0.5 coefficients of emissivity and absorption.

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	AWG or Kcmil	#	inch				lbs/1000ft			%	%	lbs	Ω/1000ft	Ω/1000ft	amps
Flamingo	666.6	24/7	0.1667	0.1111	0.3330	1.000	629	230	859	73.3	26.7	23700	0.0256	0.0315	807
Gannet	666.6	26/7	0.1501	0.1245	0.2725	1.014	629	289	917	68.5	31.5	26400	0.0255	0.0313	812
Stilt	715.5	24/7	0.1727	0.1151	0.3453	1.036	675	247	922	73.3	26.7	25500	0.0239	0.0294	844
Starling	715.5	26/7	0.1659	0.1290	0.3870	1.051	675	310	985	68.5	31.5	28400	0.0238	0.0292	849
Redwing	715.5	30/19	0.1544	0.0926	0.4630	1.081	676	434	1110	60.9	39.1	34600	0.0236	0.029	859
Coot	795	36/1	0.1486	0.1486	0.1486	1.040	746	58.5	805	92.7	7.27	16800	0.0217	0.0268	884
Cuckoo	795	24/7	0.1820	0.1213	0.3640	1.092	750	274	1024	73.3	26.7	27900	0.0215	0.0265	901
Drake	795	26/7	0.1749	0.1360	0.4080	1.108	750	344	1095	68.6	31.4	31500	0.0214	0.0261	907
Tern	795	45/7	0.1329	0.0886	0.2660	1.063	750	146	896	83.7	16.3	22100	0.0216	0.0269	887
Condor	795	54/7	0.1213	0.1213	0.3639	1.092	750	274	1023	73.3	26.7	28200	0.0215	0.0272	889
Mallard	795	30/19	0.1628	0.0977	0.4885	1.140	752	483	1235	60.9	39.1	38400	0.0213	0.0261	918
Ruddy	900	45/7	0.1414	0.0943	0.2829	1.131	849	166	1014	83.7	16.3	24400	0.0191	0.0239	958
Canary	900	54/7	0.1291	0.1291	0.3873	1.162	849	310	1159	73.3	26.7	31900	0.0190	0.0241	961
Rail	954	45/7	0.1456	0.0971	0.2913	1.165	900	176	1075	83.7	16.3	25900	0.0180	0.0225	993
Cardinal	954	54/7	0.1329	0.1329	0.3987	1.196	899	328	1227	73.2	26.8	33800	0.0179	0.0228	996
Snowbird	1033.5	42/7	0.1569	0.0872	0.2616	1.203	974	142	1116	87.3	12.7	25400	0.0165	0.0215	1024
Ortolan	1033.5	45/7	0.1515	0.1010	0.3030	1.212	974	190	1164	83.7	16.3	37700	0.0167	0.0209	1043
Curlew	1033.5	54/7	0.1383	0.1383	0.4149	1.245	974	356	1330	73.3	26.7	36600	0.0165	0.0211	1047
Bluejay	1113	45/7	0.1573	0.1049	0.3147	1.259	1050	205	1255	83.7	16.3	29800	0.0155	0.0194	1092
Finch	1113	54/19	0.1436	0.0862	0.4310	1.293	1056	376	1432	73.7	26.3	39100	0.0154	0.0197	1093
Bunting	1192.5	45/7	0.1628	0.1085	0.3255	1.302	1125	219	1344	83.7	16.3	32000	0.0144	0.0182	1139
Grackle	1192.5	54/19	0.1486	0.0892	0.4460	1.338	1130	403	1533	73.7	26.3	41900	0.0144	0.0184	1140
Bittern	1272	45/7	0.1681	0.1121	0.3363	1.345	1200	234	1434	83.7	16.3	34100	0.0135	0.0171	1184
Pheasant	1272	54/19	0.1535	0.0921	0.4605	1.382	1206	429	1635	73.7	26.3	43500	0.0135	0.0173	1187
Dipper	1351.5	45/7	0.1733	0.1155	0.3465	1.386	1275	248	1523	83.7	16.3	36200	0.0127	0.0162	1229
Martin	1351.5	54/19	0.1582	0.0949	0.4745	1.424	1281	456	1737	73.8	26.2	46300	0.0127	0.0163	1232
Bobolink	1431	45/7	0.1783	0.1189	0.3567	1.427	1350	263	1613	83.7	16.3	38300	0.0120	0.0153	1272
Plover	1431	54/19	0.1628	0.0977	0.4885	1.465	1357	483	1840	73.7	26.3	49100	0.0120	0.0155	1275
Nuthatch	1510.5	45/7	0.1832	0.1221	0.3663	1.465	1425	277	1702	83.7	16.3	40100	0.0144	0.0146	1313
Parrot	1510.5	54/19	0.1672	0.1003	0.5015	1.505	1431	509	1940	73.8	26.2	51700	0.0114	0.0147	1318
Lapwing	1590	45/7	0.1880	0.1253	0.3759	1.504	1505	292	1797	83.7	16.3	42200	0.0108	0.0139	1354
Falcon	1590	54/19	0.1716	0.1030	0.5150	1.545	1507	537	2044	73.7	26.3	54500	0.0108	0.0137	1359
Chukar	1780	84/19	0.1456	0.0874	0.4370	1.602	1688	387	2075	81.4	18.6	51000	0.0097	0.0125	1453
Bluebird	2156	84/19	0.1602	0.0961	0.4805	1.762	2044	467	2511	81.4	18.6	60300	0.0081	0.0106	1623
Kiwi	2167	72/7	0.1735	0.1157	0.3471	1.735	2055	249	2304	89.2	10.8	49800	0.0080	0.0106	1607
Thrasher	2312	76/19	0.1744	0.0814	0.4070	1.802	2191	335	2526	86.7	13.3	56700	0.0075	0.0100	1673
Joree	2515	76/19	0.1819	0.0849	0.4245	1.880	2384	365	2749	86.7	13.3	61700	0.0069	0.0093	1751

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2. Ampacity ratings are based on 75°C conductor temperature, 25°C ambient, 2ft/sec wind, in sun (96 W/ft2 heat), 0.5 coefficients of emissivity and absorption.