



## ACSR

Aluminum Conductor Steel Reinforced

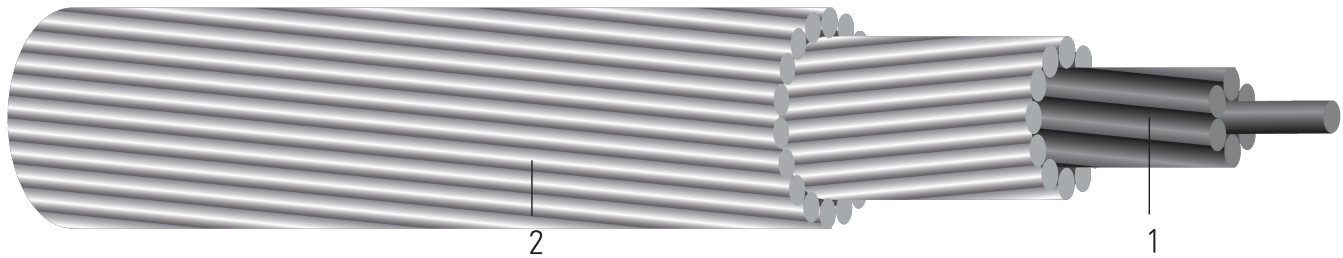


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Core:** Class A core stranding is also available in zinc-5% aluminum-mischmetal alloy coating.
2. **Stranding:** Aluminum 1350-H19 wires, concentrically stranded about a steel core.

- Standard core wire for ACSR is class A galvanized.
- For aluminum-clad (AW) ACSR, please refer to the ACSR/AW catalog sheet.
- Additional corrosion protection is available through the application of grease to the core or infusion of the complete cable with grease.
- ACSR conductor is also available in non-specular.

### APPLICATIONS AND FEATURES:

Used as bare overhead transmission conductor and as primary and secondary distribution conductor and messenger support. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity

### SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B232 Concentric-Lay-Stranded, Aluminum Conductors, Coated Steel Reinforced (ACSR)
- ASTM B498 Zinc-Coated (Galvanized) Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)
- ASTM B500 Metallic Coated Stranded Steel Core for use in overhead Electrical Conductors





**Weights, Measurements, Electrical and Engineering Data**

Stock Number	Code Word	Size	Stranding	Steel Core OD	Overall OD	AL Weight	Overall Weight	Rated Strength	DC Resistance @ 20C	AC Resistance @ 25C	Allowable Ampacity+
		(AWG or kcmil)	(Al/Stl)	(inch)	(inch)	(lb/1,000')	(lb/1,000')	(lb)	(Ohms/1,000')	(Ohms/1,000')	Amps
101162	Turkey	6	6/1	0.0661	0.198	24	36	1190	0.6410	0.8060	105
101170	Swan	4	6/1	0.0834	0.250	39	57	1860	0.4030	0.5150	140
101188	Swanate	4	7/1	0.1030	0.257	39	67	2360	0.3990	0.5190	140
101196	Sparrow	2	6/1	0.1052	0.316	62	91	2850	0.2540	0.3320	184
101204	Sparate	2	7/1	0.1298	0.325	62	107	3460	0.2510	0.3380	184
101212	Robin	1	6/1	0.1181	0.354	78	115	3550	0.2010	0.2680	212
101220	Raven	1/0	6/1	0.1327	0.398	99	145	4380	0.1590	0.2170	242
101238	Quail	2/0	6/1	0.1489	0.447	124	183	5310	0.1260	0.1760	276
101246	Pigeon	3/0	6/1	0.1672	0.502	156	230	6620	0.1000	0.1440	315
101253	Penguin	4/0	6/1	0.1878	0.563	197	291	8350	0.0795	0.1190	357
101261	Waxwing	266.8	18/1	0.1217	0.609	250	289	6880	0.0643	0.0787	449
101345	Partridge	266.8	26/7	0.2363	0.642	251	367	11300	0.0637	0.0779	475
621641	Ostrich	300	26/7	0.2506	0.680	283	412	12700	0.0567	0.0693	492
101279	Merlin	336.4	18/1	0.1367	0.684	315	365	8680	0.0510	0.0625	519
101360	Linnet	336.4	26/7	0.2654	0.720	317	462	14100	0.0505	0.0618	529
101378	Oriole	336.4	30/7	0.3177	0.741	318	526	17300	0.0502	0.0613	535
101287	Chickadee	397.5	18/1	0.1486	0.743	373	431	9940	0.0432	0.0529	576
	Brant	397.5	24/7	0.2574	0.772	374	511	14600	0.0430	0.0526	584
101386	Ibis	397.5	26/7	0.2885	0.783	374	546	16300	0.0428	0.0523	587
101394	Lark	397.5	30/7	0.3453	0.806	375	622	20300	0.0425	0.0519	594
101295	Pelican	477	18/1	0.1628	0.814	447	517	11800	0.0360	0.0442	646
101402	Flicker	477	24/7	0.2819	0.846	449	614	17200	0.0358	0.0439	655
101410	Hawk	477	26/7	0.3160	0.858	449	656	19500	0.0356	0.0436	659
101428	Hen	477	30/7	0.3783	0.883	450	746	23800	0.0354	0.0433	666
101303	Osprey	556.5	18/1	0.1758	0.879	522	603	13700	0.0308	0.0379	711
101436	Parakeet	556.5	24/7	0.3045	0.914	524	716	19800	0.0307	0.0376	721
101444	Dove	556.5	26/7	0.3413	0.927	524	765	22600	0.0306	0.0375	726
101451	Eagle	556.5	30/7	0.4086	0.953	525	871	27800	0.0303	0.0372	734
101469	Peacock	605	24/7	0.3177	0.953	570	779	21600	0.0282	0.0346	760
663730	Squab	605	26/7	0.3559	0.966	570	832	24300	0.0281	0.0345	765
	Wood Duck	605	30/7	0.4260	0.994	571	946	28900	0.0279	0.0342	774
101709	Teal	605	30/19	0.4260	0.994	571	939	30000	0.0279	0.0342	773
101311	Kingbird	636	18/1	0.1880	0.940	596	690	15700	0.0270	0.0332	773
	Swift	636	36/1	0.1329	0.930	596	643	13690	0.0271	0.0334	769
101485	Rook	636	24/7	0.3256	0.977	599	818	22600	0.0268	0.0330	784
101493	Grosbeak	636	26/7	0.3649	0.991	599	874	25200	0.0267	0.0328	789
	Scoter	636	30/7	0.4368	1.019	600	995	30400	0.0256	0.0325	798
101717	Egret	636	30/19	0.4368	1.019	600	987	31500	0.0266	0.0326	798
101519	Flamingo	666.6	24/7	0.3333	1.000	628	858	23700	0.0256	0.0315	807
	Gannet	666.6	26/7	0.3736	1.014	628	916	26400	0.0255	0.0313	812
	Stilt	715.5	24/7	0.3453	1.036	674	920	25500	0.0239	0.0294	844
101527	Starling	715.5	26/7	0.3871	1.051	674	984	28400	0.0238	0.0292	849





Stock Number	Code Word	Size (AWG or kcmil)	Stranding (Al/Stl)	Steel Core OD (inch)	Overall OD (inch)	AL Weight (lb/1,000')	Overall Weight (lb/1,000')	Rated Strength (lb)	DC Resistance @ 20C (Ohms/1,000')	AC Resistance @ 25C (Ohms/1,000')	Allowable Ampacity+ Amps
	Redwing	715.5	30/19	0.4633	1.081	676	1110	34600	0.0236	0.0290	859
101337	Coot	795	36/1	0.1486	1.040	745	804	16710	0.0217	0.0268	884
101543	Drake	795	26/7	0.4080	1.107	749	1093	31500	0.0214	0.0263	907
101550	Tern	795	45/7	0.2658	1.063	749	895	22100	0.0216	0.0269	887
101568	Condor	795	54/7	0.3640	1.092	749	1023	28200	0.0215	0.0272	889
101733	Mallard	795	30/19	0.4884	1.140	751	1234	38400	0.0213	0.0261	918
298570	Ruddy	900	45/7	0.2828	1.131	848	1013	24400	0.0191	0.0239	958
101584	Canary	900	54/7	0.3873	1.162	848	1158	31900	0.0190	0.0241	961
101592	Rail	954	45/7	0.2912	1.165	899	1074	25900	0.0180	0.0225	993
101600	Cardinal	954	54/7	0.3987	1.196	899	1227	33800	0.0179	0.0228	996
101618	Ortolan	1033.5	45/7	0.3031	1.212	973	1163	27700	0.0167	0.0209	1043
101626	Curlew	1033.5	54/7	0.4150	1.245	973	1330	36600	0.0165	0.0211	1047
101634	Bluejay	1113	45/7	0.3145	1.258	1048	1253	29800	0.0155	0.0194	1092
101741	Finch	1113	54/19	0.4307	1.292	1053	1429	39100	0.0154	0.0197	1093
101642	Bunting	1192.5	45/7	0.3256	1.302	1123	1343	32000	0.0144	0.0182	1139
101758	Grackle	1192.5	54/19	0.4458	1.337	1129	1531	41900	0.0144	0.0184	1140
101659	Bittern	1272	45/7	0.3362	1.345	1198	1432	34100	0.0135	0.0171	1184
101766	Pheasant	1272	54/19	0.4605	1.381	1204	1633	43600	0.0135	0.0173	1187
101667	Dipper	1351.5	45/7	0.3466	1.386	1273	1521	36200	0.0127	0.0162	1229
101774	Martin	1351.5	54/19	0.4746	1.424	1279	1735	46300	0.0127	0.0163	1232
101675	Bobolink	1431	45/7	0.3566	1.427	1348	1611	38300	0.0120	0.0153	1272
101691	Lapwing	1590	45/7	0.3759	1.504	1498	1790	42200	0.0108	0.0139	1354
101808	Falcon	1590	54/19	0.5148	1.544	1505	2041	54500	0.0108	0.0140	1359
226043	Chukar	1780	84/19	0.4368	1.602	1685	2072	51000	0.0097	0.0125	1453
194241	Bluebird	2156	84/19	0.4808	1.762	2040	2508	60300	0.0080	0.0105	1623
226035	Kiwi	2167	72/7	0.3470	1.735	2051	2300	49800	0.0080	0.0106	1607
101816	Grouse	80	8/1	0.1667	0.367	75	149	5190	0.2065	0.2888	205
101824	Petrel	101.8	12/7	0.2763	0.461	96	254	10400	0.1583	0.2493	234
101832	Minorca	110.8	12/7	0.2885	0.481	104	276	11300	0.1454	0.2331	245
101840	Leghorn	134.6	12/7	0.3177	0.530	127	336	13600	0.1197	0.2000	271
101857	Guinea	159	12/7	0.3453	0.576	150	396	16000	0.1014	0.1757	296
203190	Dotterel	176.9	12/7	0.3642	0.607	167	441	17300	0.0911	0.1618	313
101873	Dorking	190.8	12/7	0.3783	0.631	180	476	18700	0.0845	0.1530	325
101881	Brahma	203.2	16/19	0.4885	0.714	191	675	28400	0.0764	0.1499	340
101899	Cochin	211.3	12/7	0.3981	0.664	199	527	20700	0.0763	0.1410	343

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

