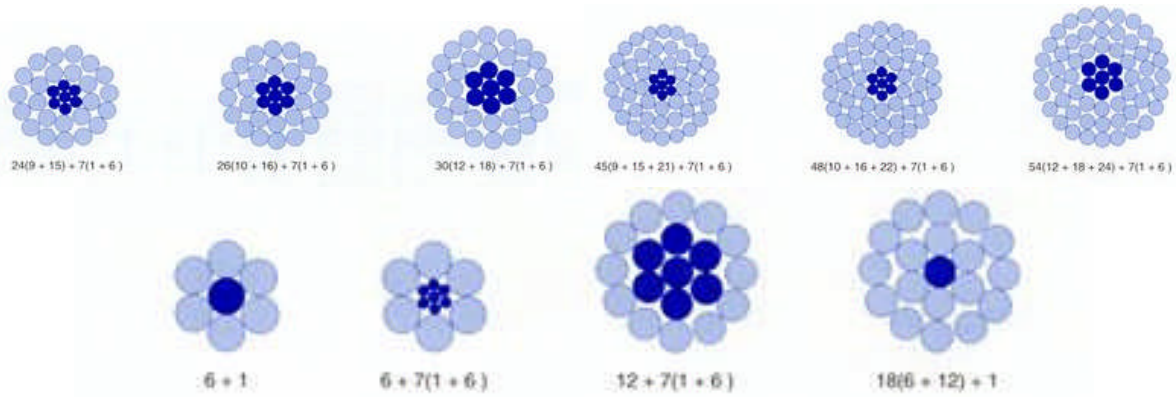




Bare Overhead Conductors Aluminum Conductor Steel Reinforced ACSR



APPLICATIONS

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.

SPECIFICATIONS

ACSR, Aluminum Conductor Steel Reinforced, meets or exceeds all applicable requirements of the following standards:

- ASTM B-230 Aluminum Wire, 1350-H19 for Electrical Purposes
- ASTM B-231 Aluminum Conductors, Concentric-Lay-Stranded
- ASTM B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced [ACSR]
- ASTM B-341 Aluminum- Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced [ACSR/AZ]
- ASTM B-498 Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced [ACSR/AZ]

CONSTRUCTION

Conductor: Bare aluminum alloy 1350-H19 wires, concentrically stranded about a Class A galvanized coated steel core wire.

FEATURES & BENEFITS, OPTIONS

- The core wire is also available with Class 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.

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Code Word	Size (AWG/cmil)	Stranding Wires (Al / Stl)	Diameter (Ins)				Net Weight			Rated Strength (Lbs)	Resistance (Ohms / 1000 ft)		Allowable Ampacity* Amps
			Indiv. Cable		Steel Core	Complete Cable OD	Aluminum (Lbs/Mft)	Steel (Lbs/Mft)	Total (Lbs/Mft)		DC @20°C	AC @75°C	
			Al	Stl									
TURKEY	6	6/1	0.0661	0.0661	0.0661	0.198	24.4	11.6	36.0	1,190	0.6419	0.8159	105
SWAN	4	6/1	0.0834	0.0834	0.0834	0.250	39.0	18.4	57.4	1,860	0.4032	0.5218	140
SWANATE	4	7/1	0.0772	0.1029	0.1029	0.257	39.0	28.0	67.0	2,360	0.3989	0.5165	140
SPARROW	2	6/1	0.1052	0.1052	0.1052	0.316	61.9	29.3	91.2	2,850	0.2534	0.3360	185
SPARATE	2	7/1	0.0974	0.1299	0.1299	0.325	62.3	44.7	107.0	3,640	0.2506	0.3297	185
ROBIN	1	6/1	0.1181	0.1181	0.1181	0.354	78.1	36.9	115.0	3,550	0.2011	0.2703	210
RAVEN	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.4	46.6	145.0	4,380	0.1593	0.2161	240
QUAIL	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.2	58.8	183.0	5,310	0.1265	0.1759	275
PIGEON	3/0	6/1	0.1672	0.1672	0.1672	0.502	155.9	74.1	230.0	6,620	0.1003	0.1445	315
PENGUIN	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.6	93.4	291.0	8,350	0.0795	0.1157	360
WAXWING	266,800	18/1	0.1217	0.1217	0.1217	0.609	249.8	39.2	289.0	6,880	0.0644	0.0788	450
PARTRIDGE	266,800	26/7	0.1013	0.0788	0.2364	0.642	250.4	115.6	366.0	11,300	0.0637	0.0778	455
OSTRICH	300,000	26/7	0.1074	0.0835	0.2505	0.680	282.2	129.8	412.0	12,700	0.0567	0.0693	490
MERLIN	336,400	18/1	0.1367	0.1367	0.1367	0.684	315.5	49.5	365.0	8,680	0.0510	0.0625	520
LINNET	336,400	26/7	0.1137	0.0884	0.2652	0.720	316.5	145.5	462.0	14,100	0.0506	0.0619	530
ORIOLE	336,400	30/7	0.1059	0.1059	0.3177	0.741	317.0	209.0	526.0	17,300	0.0502	0.0614	535
CHICKADEE	397,500	18/1	0.1486	0.1486	0.1486	0.743	372.5	58.5	431.0	9,940	0.0432	0.0528	575
IBIS	397,500	26/7	0.1236	0.0961	0.2883	0.783	374.1	171.9	546.0	16,300	0.0428	0.0525	585
LARK	397,500	30/7	0.1151	0.1151	0.3453	0.806	375.1	246.9	622.0	20,300	0.0425	0.0519	595
PELICAN	477,000	18/1	0.1628	0.1628	0.1628	0.814	446.8	70.2	517.0	11,800	0.0360	0.0441	645
FLICKER	477,000	24/7	0.1410	0.0940	0.2820	0.846	449.5	164.5	614.0	17,200	0.0358	0.0439	655
HAWK	477,000	26/7	0.1354	0.1053	0.3159	0.858	448.6	206.4	655.0	19,500	0.0357	0.0438	660
HEN	477,000	30/7	0.1261	0.1261	0.3783	0.883	449.7	296.3	746.0	23,800	0.0354	0.0434	665
OSPREY	556,500	18/1	0.1758	0.1758	0.1758	0.879	521.1	81.9	603.0	13,700	0.0309	0.0379	710
PARAKEET	556,500	24/7	0.1523	0.1015	0.3045	0.914	524.2	191.8	716.0	19,800	0.0307	0.0377	720
DOVE	556,500	26/7	0.1463	0.1138	0.3410	0.927	523.9	241.1	765.0	22,600	0.0305	0.0375	725
EAGLE	556,500	30/7	0.1362	0.1362	0.4090	0.953	523.3	345.7	871.0	27,800	0.0303	0.0371	735
PEACOCK	605,000	24/7	0.1588	0.1059	0.3180	0.953	570.2	208.8	779.0	21,600	0.0282	0.0347	760
SQUAB	605,000	26/7	0.1525	0.1186	0.3560	0.966	569.1	261.9	831.0	24,300	0.0281	0.0345	765
TEAL	605,000	30/19	0.1420	0.0852	0.4260	0.994	571.5	367.5	939.0	30,000	0.0279	0.0343	770
KINGBIRD	636,000	18/1	0.1880	0.1880	0.1880	0.940	596.4	93.6	690.0	15,700	0.0269	0.0331	775
SWIFT	636,000	36/1	0.1329	0.1329	0.1330	0.930	596.0	47.0	643.0	13,800	0.0267	0.0333	770
ROOK	636,000	24/7	0.1628	0.1085	0.3260	0.977	598.8	219.2	818.0	22,000	0.0268	0.0330	785
GROSBEAK	636,000	26/7	0.1564	0.1216	0.3650	0.990	598.7	275.3	874.0	25,200	0.0267	0.0328	790
EGRET	636,000	30/19	0.1456	0.0874	0.4370	1.019	600.2	386.8	987.0	37,500	0.0266	0.0326	795

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Code Word	Size (AWG/ cmil)	Stranding Wires (Al / Stl)	Diameter (Ins)				Net Weight			Rated Strength (Lbs)	Resistance (Ohms / 1000 ft)		Allowable Ampacity* Amps
			Indiv. Cable		Steel Core	Complete Cable OD	Aluminum (Lbs/Mft)	Steel (Lbs/Mft)	Total (Lbs/Mft)		DC @20°C	AC @75°C	
			Al	Stl									
FLAMINGO	666,600	24/7	0.1667	0.1111	0.3330	1.000	628.2	229.8	858.0	23,700	0.0256	0.0314	810
STARLING	715,500	26/7	0.1659	0.1290	0.3870	1.051	674.2	309.8	984.0	28,400	0.0238	0.0292	850
REDWING	715,500	30/19	0.1544	0.0926	0.4630	1.081	675.0	434.0	1109.0	34,600	0.0236	0.0290	860
COOT	795,000	36/1	0.1486	0.1486	0.1480	1.040	745.0	59.0	804.0	16,800	0.0217	0.0269	880
CUCKOO	795,000	24/7	0.1820	0.1213	0.3640	1.092	750.0	274.0	1024.0	27,900	0.0215	0.0265	900
DRAKE	795,000	26/7	0.1749	0.1360	0.4080	1.108	749.0	344.0	1093.0	31,500	0.0214	0.0263	905
TERN	795,000	45/7	0.1329	0.0886	0.2660	1.063	748.9	146.1	895.0	22,100	0.0216	0.0267	885
CONDOR	795,000	54/7	0.1213	0.1213	0.3640	1.092	748.0	274.0	1022.0	28,200	0.0215	0.0265	895
MALLARD	795,000	30/19	0.1628	0.0977	0.4890	1.140	751.0	483.0	1234.0	38,400	0.0213	0.0261	915
RUDDY	900,000	45/7	0.1414	0.0943	0.2830	1.131	847.0	166.0	1013.0	24,400	0.0191	0.0237	955
CANARY	900,000	54/7	0.1291	0.1291	0.3870	1.162	848.0	310.0	1158.0	31,900	0.0190	0.0235	965
RAIL	954,000	45/7	0.1456	0.0971	0.2910	1.165	899.0	176.0	1075.0	25,900	0.0180	0.0223	990
CARDINAL	954,000	54/7	0.1329	0.1329	0.3990	1.196	899.0	329.0	1228.0	33,800	0.0179	0.0222	1005
ORTOLAN	1,033,500	45/7	0.1515	0.1010	0.3030	1.212	973.0	190.0	1163.0	27,700	0.0167	0.0208	1040
CURLEW	1,033,500	54/7	0.1383	0.1383	0.4150	1.245	973.0	356.0	1329.0	36,600	0.0165	0.0205	1055
BLUEJAY	1,113,000	45/7	0.1573	0.1049	0.3150	1.259	1049.0	205.0	1254.0	29,800	0.0155	0.0193	1090
FINCH	1,113,000	54/19	0.1436	0.0862	0.4310	1.293	1054.0	376.0	1430.0	39,100	0.0154	0.0191	1100
BUNTING	1,192,500	45/7	0.1628	0.1085	0.3260	1.302	1123.0	219.0	1342.0	32,000	0.0144	0.0181	1135
GRACKLE	1,192,500	54/19	0.1486	0.0892	0.4460	1.338	1128.0	403.0	1531.0	41,900	0.0144	0.0179	1150
BITTERN	1,272,000	45/7	0.1681	0.1121	0.3360	1.345	1198.0	234.0	1432.0	34,100	0.0135	0.0170	1180
PHEASANT	1,272,000	54/19	0.1535	0.0921	0.4610	1.382	1205.0	429.0	1634.0	43,600	0.0135	0.0169	1195
DIPPER	1,351,500	45/7	0.1733	0.1155	0.3470	1.386	1273.0	248.0	1521.0	36,200	0.0127	0.0161	1225
MARTIN	1,351,500	54/19	0.1582	0.0949	0.4750	1.424	1279.0	456.0	1735.0	46,300	0.0127	0.0159	1240
BOBOLINK	1,431,000	45/7	0.1783	0.1189	0.3570	1.427	1348.0	263.0	1611.0	38,300	0.0120	0.0152	1270
LAPWING	1,590,000	45/7	0.1880	0.1253	0.3760	1.504	1498.0	292.0	1790.0	42,200	0.0108	0.0138	1350
FALCON	1,590,000	54/19	0.1716	0.1030	0.5160	1.545	1505.0	537.0	2042.0	54,500	0.0108	0.0137	1370
CHUKAR	1,780,000	84/19	0.1456	0.0874	0.4370	1.602	1685.0	387.0	2072.0	51,000	0.0097	0.0125	1455
BLUEBIRD	2,156,000	84/19	0.1602	0.0961	0.4810	1.762	2040.0	468.0	2508.0	60,300	0.0080	0.0105	1620
KIWI	2,167,000	72/7	0.1735	0.1157	0.3470	1.735	2051.0	249.0	2300.0	49,800	0.0080	0.0106	1605
THRASHER	2,312,000	76/19	0.1744	0.0814	0.4070	1.802	2188.0	335.0	2523.0	56,700	0.0075	0.0100	1670

* Based on conductor temperature of 75°C; ambient temperature of 25°C; wind velocity of 2 ft/sec; in sun.

Note:

- Cable can be manufactured to various International Standards.

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