



APPLICATIONS

Used as bare overhead transmission cable and as primary and secondary distribution cable. A good strength-to-weight ratio makes ACAR applicable where both ampacity and strength are prime considerations in line design; for equal weight, ACAR offers higher strength and ampacity than ACSR.

SPECIFICATIONS

Southwire's ACAR bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B398 Aluminum-Alloy 6201-T81 Wire for Electrical Purposes.
- B524 Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced (ACAR, 1350/6201).

CONSTRUCTION

Aluminum 1350-H19 wires, concentrically stranded about an aluminum-alloy 6201-T81 core. Although the alloy strands generally comprise the core of the conductor, in some constructions they are distributed in layers throughout the aluminum 1350-H19 strands.



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ACAR

Size (kcmil)	Strand- ing (EC/6201)	Diameter (ins.)			Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
		Individual Wires		Comp. Cable			DC @ 20°C	AC @ 75°C	
		6201	1350						
355.0	12/7	0.1367	0.1367	0.683	332.1	8500	.0514	.0624	519
465.9	12/7	0.1566	0.1566	0.783	435.8	11000	.0392	.0477	616
503.6	12/7	0.1628	0.1628	0.814	471.1	11900	.0362	.0441	646
653.1	12/7	0.1854	0.1854	0.927	611.0	15400	.0279	.0342	760
739.8	30/7	0.1414	0.1414	0.990	692.7	15300	.0240	.0296	831
739.8	18/19	0.1414	0.1414	0.990	691.6	18800	.0252	.0308	814
853.7	30/7	0.1519	0.1519	1.063	799.3	17500	.0208	.0257	907
853.7	18/19	0.1519	0.1519	1.063	798.0	21500	.0218	.0268	890
927.2	30/7	0.1583	0.1583	1.108	868.2	19000	.0192	.0238	955
927.2	18/19	0.1583	0.1583	1.108	866.7	23400	.0201	.0247	936
1024.5	30/7	0.1664	0.1664	1.165	959.3	20900	.0173	.0216	1015
1024.5	18/19	0.1664	0.1664	1.165	957.7	25800	.0182	.0225	995
1081.0	30/7	0.1709	0.1709	1.196	1012.1	22100	.0164	.0205	1048
1081.0	18/19	0.1709	0.1709	1.196	1010.5	27200	.0172	.0213	1028
1109.0	30/7	0.1731	0.1731	1.212	1038.4	22700	.0160	.0200	1065
1109.0	18/19	0.1731	0.1731	1.212	1036.6	27900	.0168	.0208	1044
1172.0	30/7	0.1780	0.1780	1.246	1097.3	24000	.0152	.0190	1101
1172.0	18/19	0.1780	0.1780	1.246	1095.5	29500	.0159	.0198	1080
1197.0	30/7	0.1799	0.1799	1.259	1120.8	24500	.0148	.0187	1115
1197.0	18/19	0.1799	0.1799	1.259	1118.9	30200	.0156	.0194	1094
1280.0	30/7	0.1860	0.1860	1.302	1198.5	26200	.0139	.0175	1160
1280.0	18/19	0.1860	0.1860	1.302	1196.5	32200	.0146	.0182	1139
1361.0	42/19	0.1494	0.1494	1.344	1273.6	30300	.0133	.0168	1196
1527.0	42/19	0.1582	0.1582	1.424	1428.8	33600	.0118	.0151	1314
1703.0	42/19	0.1671	0.1671	1.504	1593.5	37500	.0106	.0137	1363
1933.0	42/19	0.1780	0.1780	1.602	1808.8	42500	.00936	.0123	1465
2267.0	42/19	0.1928	0.1928	1.735	2142.0	49900	.00806	.0108	1594
2493.0	72/19	0.1655	0.1655	1.821	2356.9	50400	.00722	.0099	1687
2493.0	54/37	0.1655	0.1655	1.821	2354.5	57600	.00743	.0101	1670

+Ampacity based on 75°C conductor temperature, 25°C ambient temperature, with 2 ft./sec. wind in the sun.



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