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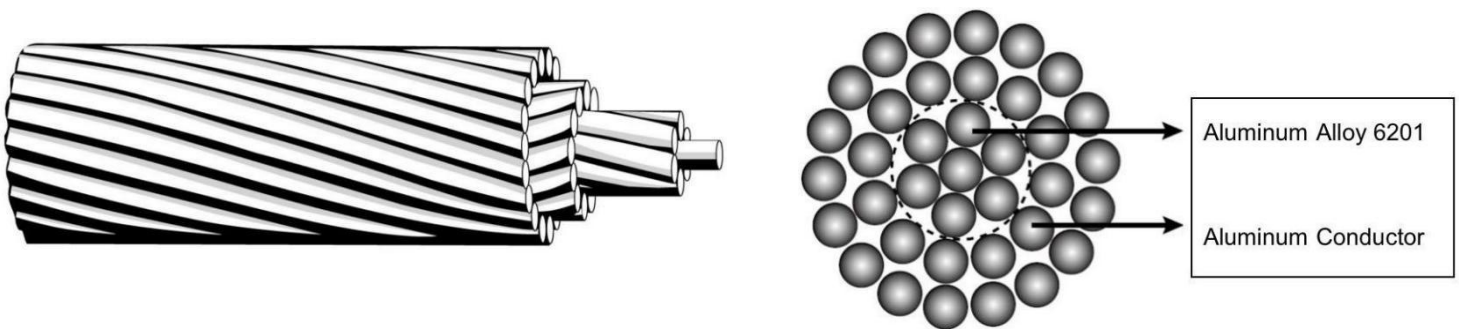
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**American ASTM B524 Standard Aluminum Conductor
Aluminum Alloy Reinforced (ACAR) Cables**

Application

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.

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.

Electrical Properties

Density: 20°C	Aluminium/Alloy: 2.703 kg/dm
Temperature Coefficient: 20°C	Aluminium: 0.00403 (°C) Alloy: 0.00306(°C)
Resistivity: 20°C	Aluminium: Should not exceed 0.028264 Alloy: should not exceed 0.032840
Linear Expansivity	Aluminium: 23 x10 (°C)

Service Conditions

Ambient Temperature	-5°C - 50°C
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Wind Pressure	80 – 130kg/m ²
Seismic Acceleration	0.12 - 0.05g
Isokeraunic Level	10 – 18
Relative Humidity	5 – 100%

Construction Parameters

ASTM B524

Size (kcmil)	Strand- ing (EC/bZU1)	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	12/7	0.1367	0.1367	0.683	332.1	8500	0.0514	0.0624	519
465.9	12/7	0.1566	0.1566	0.783	435.8	11000	0.0392	0.0477	616
503.6	12/7	0.1628	0.1628	0.814	471.1	11900	0.0362	0.0441	646
653.1	12/7	0.1854	0.1854	0.927	611	15400	0.0279	0.0342	760
739.8	7/30	0.1414	0.1414	0.99	692.7	15300	0.024	0.0296	831
739.8	18/19	0.1414	0.1414	0.99	691.6	18800	0.0252	0.0308	814
853.7	7/30	0.1519	0.1519	1.063	799.3	17500	0.0208	0.0257	907
853.7	18/19	0.1519	0.1519	1.063	798	21500	0.0218	0.0268	890
927.2	7/30	0.1583	0.1583	1.108	868.2	19000	0.0192	0.0238	955
927.2	18/19	0.1583	0.1583	1.108	866.7	23400	0.0201	0.0247	936
1024.5	7/30	0.1664	0.1664	1.165	959.3	20900	0.0173	0.0216	1015
1024.5	18/19	0.1664	0.1664	1.165	957.7	25800	0.0182	0.0225	995
1081	7/30	0.1709	0.1709	1.196	1012.1	22100	0.0164	0.0205	1048



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1081	18/19	0.1709	0.1709	1.196	1010.5	27200	0.0172	0.0213	1028
1109	7/30	0.1731	0.1731	1.212	1038.4	22700	0.016	0.02	1065
1109	18/19	0.1731	0.1731	1.212	1036.6	27900	0.0168	0.0208	1044
1172	7/30	0.178	0.178	1.246	1097.3	24000	0.0152	0.019	1101
1172	18/19	0.178	0.178	1.246	1095.5	29500	0.0159	0.0198	1080
1197	7/30	0.1799	0.1799	1.259	1120.8	24500	0.0148	0.0187	1115
1197	18/19	0.1799	0.1799	1.259	1118.9	30200	0.0156	0.0194	1094
1280	7/30	0.186	0.186	1.302	1198.5	26200	0.0139	0.0175	1160
1280	18/19	0.186	0.186	1.302	1196.5	32200	0.0146	0.0182	1139
1361	42/19	0.1494	0.1494	1.344	1273.6	30300	0.0133	0.0168	1196
1527	42/19	0.1582	0.1582	1.424	1428.8	33600	0.0118	0.0151	1314
1703	42/19	0.1671	0.1671	1.504	1593.5	37500	0.0106	0.0137	1363
1933	42/19	0.178	0.178	1.602	1808.8	42500	0.00936	0.0123	1465
2267	42/19	0.1928	0.1928	1.735	2142	49900	0.00806	0.0108	1594
2493	72/19	0.1655	0.1655	1.821	2356.9	50400	0.00722	0.0099	1687
2493	54/37	0.1655	0.1655	1.821	2354.5	57600	0.00743	0.0101	1670