

Aluminum Conductor Aluminum-Alloy Reinforced

ASTM B524, Specification for Concentric-Lay-Stranded Aluminum Conductors, Aluminum-Alloy Reinforced

Size of Conductor	Stranding		Conductor		Max.D.C.Resistance of Conductor at 20°C
	1350-H19 Al	6201-T81 Al Alloy	Approx. Overall	Approx. Weight	
AWG or MCM	No./mm	No./mm	mm	kg/km	ohm/km
30.6	4/1.679	3/1.679	5.03	43	1.983
4	4/1.961	3/1.961	5.89	59	1.454
48.7	4/2.118	3/2.118	6.35	68	1.246
2	4/2.474	3/2.474	7.42	93	0.913
77.5	4/2.672	3/2.672	8.03	109	0.721
1/0	4/3.119	3/3.119	9.35	148	0.575
123.3	4/3.371	3/3.371	10.11	173	0.492
2/0	4/3.503	3/3.503	10.52	187	0.455
155.4	4/3.785	3/3.785	11.35	218	0.39
3/0	4/3.932	3/3.932	11.8	235	0.361
195.7	4/4.247	3/4.247	12.74	274	0.31
4/0	4/4.417	3/4.417	13.25	297	0.286
246.9	4/4.77	3/4.77	14.31	346	0.245
250	15/2.913	4/2.913	14.56	350	0.235
250	12/2.913	7/2.913	14.56	350	0.24
300	15/3.193	4/3.193	15.96	420	0.195
300	12/3.193	7/3.193	15.96	420	0.2
350	15/3.447	4/3.447	17.24	490	0.168
350	12/3.447	7/3.447	17.24	490	0.172
400	15/3.685	4/3.685	18.44	560	0.147
400	12/3.685	7/3.685	18.44	560	0.135
450	15/3.909	4/3.909	19.55	630	0.13
450	12/3.909	7/3.909	19.55	630	0.133
500	15/4.120	4/4.120	20.6	700	0.117
500	12/4.120	7/4.120	20.6	700	0.12
500	33/2.951	4/2.951	20.65	700	0.116
500	30/2.951	7/2.951	20.65	700	0.117
500	24/2.951	13/2.951	20.65	700	0.12
500	18/2.951	19/2.951	20.65	700	0.123
550	15/4.321	4/4.321	21.66	770	0.107
550	12/4.321	7/4.321	21.66	770	0.11
550	33/3.1	4/3.1	21.66	770	0.105
550	30/3.1	7/3.1	21.66	770	0.106
550	24/3.1	13/3.1	21.66	770	0.109
550	18/3.1	19/3.1	21.66	770	0.111
600	15/4.513	4/4.513	22.58	840	0.0978
600	12/4.513	7/4.513	22.58	840	0.1
600	33/3.23	4/3.23	22.63	840	0.096
600	30/3.23	7/3.23	22.63	840	0.097
600	24/3.23	13/3.23	22.63	840	0.1
600	18/3.23	19/3.23	22.63	840	0.102
650	33/3.36	4/3.36	23.57	910	0.089
650	30/3.36	7/3.36	23.57	910	0.09
650	24/3.36	13/3.36	23.57	910	0.092
650	18/3.36	19/3.36	23.57	910	0.095
700	33/3.49	4/3.49	24.46	980	0.083
700	30/3.49	7/3.49	24.46	980	0.084
700	24/3.49	13/3.49	24.46	980	0.086

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	1350-H19 Al	6201-T81 Al Alloy	Approx. Overall	Approx. Weight	
AWG or MCM	No./mm	No./mm	mm	kg/km	ohm/km
700	18/3.49	19/3.49	24.46	980	0.088
750	33/3.62	4/3.62	25.32	1050	0.077
750	30/3.62	7/3.62	25.32	1050	0.078
750	24/3.62	13/3.62	25.32	1050	0.08
750	18/3.62	19/3.62	25.32	1050	0.082
800	33/3.73	4/3.73	26.15	1120	0.072
800	30/3.73	7/3.73	26.15	1120	0.073
800	24/3.73	13/3.73	26.15	1120	0.075
800	18/3.73	19/3.73	26.15	1120	0.077
850	33/3.85	4/3.85	26.95	1190	0.068
850	30/3.85	7/3.85	26.95	1190	0.069
850	24/3.85	13/3.85	26.95	1190	0.071
850	18/3.85	19/3.85	26.95	1190	0.072
900	33/3.96	4/3.96	27.75	1260	0.064
900	30/3.96	7/3.96	27.75	1260	0.065
900	24/3.96	13/3.96	27.75	1260	0.067
900	18/3.96	19/3.96	27.75	1260	0.068
950	33/4.07	4/4.07	28.5	1330	0.061
950	30/4.07	7/4.07	28.5	1330	0.062
950	24/4.07	13/4.07	28.5	1330	0.063
950	18/4.07	19/4.07	28.5	1330	0.065
1000	33/4.17	4/4.17	29.3	1400	0.058
1000	30/4.17	7/4.17	29.3	1400	0.059
1000	24/4.17	13/4.17	29.3	1400	0.06
1000	18/4.17	19/4.17	29.3	1400	0.061
1000	54/3.25	7/3.25	29.32	1397	0.058
1000	48/3.25	13/3.25	29.32	1397	0.059
1000	42/3.25	19/3.25	29.32	1397	0.06
1000	33/3.25	28/3.25	29.32	1397	0.061
1100	33/4.38	4/4.38	30.65	1540	0.053
1100	30/4.38	7/4.38	30.65	1540	0.053
1100	24/4.38	13/4.38	30.65	1540	0.054
1100	18/4.38	19/4.38	30.65	1540	0.056
1100	54/3.41	7/3.41	30.7	1540	0.053
1100	48/3.41	13/3.41	30.7	1540	0.054
1100	42/3.41	19/3.41	30.7	1540	0.055
1100	33/3.41	28/3.41	30.7	1540	0.055
1200	33/4.57	4/4.57	32	1680	0.048
1200	30/4.57	7/4.57	32	1680	0.049
1200	24/4.57	13/4.57	32	1680	0.05
1200	18/4.57	19/4.57	32	1680	0.051
1200	54/3.56	7/3.56	32.1	1680	0.048
1200	48/3.56	13/3.56	32.1	1680	0.049
1200	42/3.56	19/3.56	32.1	1680	0.05
1200	33/3.56	28/3.56	32.1	1680	0.051
1250	33/4.67	4/4.67	32.7	1750	0.046
1250	30/4.67	7/4.67	32.7	1750	0.047
1250	24/4.67	13/4.67	32.7	1750	0.048

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	1350-H19 Al	6201-T81 Al Alloy	Approx. Overall	Approx. Weight	
AWG or MCM	No./mm	No./mm	mm	kg/km	ohm/km
1250	18/4.67	19/4.67	32.7	1750	0.049
1250	54/3.63	7/3.63	32.72	1750	0.046
1250	48/3.63	13/3.63	32.72	1750	0.047
1250	42/3.63	19/3.63	32.72	1750	0.048
1250	33/3.63	28/3.63	32.72	1750	0.049
1300	33/4.76	4/4.76	33.33	1820	0.044
1300	30/4.76	7/4.76	33.33	1820	0.045
1300	24/4.76	13/4.76	33.33	1820	0.046
1300	18/4.76	19/4.76	33.33	1820	0.047
1300	54/3.71	7/3.71	33.38	1825	0.044
1300	48/3.71	13/3.71	33.38	1825	0.045
1300	42/3.71	19/3.71	33.38	1825	0.046
1300	33/3.71	28/3.71	33.38	1825	0.047
1400	54/3.85	7/3.85	34.65	1960	0.041
1400	48/3.85	13/3.85	34.65	1960	0.042
1400	42/3.85	19/3.85	34.65	1960	0.043
1400	33/3.85	28/3.85	34.65	1960	0.044
1500	54/3.98	7/3.98	35.85	2100	0.039
1500	48/3.98	13/3.98	35.85	2100	0.0395
1500	42/3.98	19/3.98	35.85	2100	0.04
1500	33/3.98	28/3.98	35.85	2100	0.041
1600	54/4.11	7/4.11	37.05	2240	0.036
1600	48/4.11	13/4.11	37.05	2240	0.037
1600	42/4.11	19/4.11	37.05	2240	0.037
1600	33/4.11	28/4.11	37.05	2240	0.038
1700	54/4.24	7/4.24	38.15	2380	0.034
1700	48/4.24	13/4.24	38.15	2380	0.0354
1700	42/4.24	19/4.24	38.15	2380	0.035
1700	33/4.24	28/4.24	38.15	2380	0.036
1750	54/4.30	7/4.30	38.75	2450	0.033
1750	48/4.30	13/4.30	38.75	2450	0.0335
1750	42/4.30	19/4.30	38.75	2450	0.034
1750	33/4.30	28/4.30	38.75	2450	0.035
1800	54/4.36	7/4.36	39.3	2520	0.032
1800	48/4.36	13/4.36	39.3	2520	0.0325
1800	42/4.36	19/4.36	39.3	2520	0.033
1800	33/4.36	28/4.36	39.3	2520	0.034
1900	54/4.48	7/4.48	40.35	2660	0.0305
1900	48/4.48	13/4.48	40.35	2660	0.031
1900	42/4.48	19/4.48	40.35	2660	0.0315
1900	33/4.48	28/4.48	40.35	2660	0.032
2000	54/4.60	7/4.60	41.4	2800	0.029
2000	48/4.60	13/4.60	41.4	2800	0.0295
2000	42/4.60	19/4.60	41.4	2800	0.03
2000	33/4.60	28/4.60	41.4	2800	0.0305
2000	72/3.76	19/3.76	41.4	2795	0.0295
2000	63/3.76	28/3.76	41.4	2795	0.03
2000	54/3.76	37/3.76	41.4	2795	0.0305

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	1350-H19 Al	6201-T81 Al Alloy	Approx. Overall	Approx. Weight	
AWG or MCM	No./mm	No./mm	mm	kg/km	ohm/km
2250	72/3.99	19/3.99	43.9	3175	0.0265
2250	63/3.99	28/3.99	43.9	3175	0.0267
2250	54/3.99	37/3.99	43.9	3175	0.027
2500	72/4.21	19/4.21	46.3	3530	0.023
2500	63/4.21	28/4.21	46.3	3530	0.024
2500	54/4.21	37/4.21	46.3	3530	0.0245
2750	72/4.41	19/4.41	48.55	3880	0.0215
2750	63/4.41	28/4.41	48.55	3880	0.022
2750	54/4.41	37/4.41	48.55	3880	0.0222
3000	72/4.61	19/4.61	50.75	4240	0.0197
3000	54/4.61	28/4.61	50.75	4240	0.02
3000	63/4.61	37/4.61	50.75	4240	0.0203