

## CONDUCTOR DATA SHEET

### All Aluminum Alloy 6201-T81 Conductors ( AAAC )

Code Name	Total Area		1350 Grade Equivalent (Approx)	Stranding	Conductor Nominal diameter	Nominal Weight	Rated Strength	American Sizes Maximum DC resistance at 20 °C
	AWG or MCM	mm <sup>2</sup>	AWG or MCM	N <sup>o</sup> / mm	mm	kg/km	kN	Ω /km
Akron	30.58	15.52	6	7 x 1.68	5.04	43	4.92	2.1588
Alton	48.69	24.71	4	7 x 2.12	6.36	68	7.83	1.3557
Ames	77.47	39.19	2	7 x 2.67	8.01	108	12.42	0.8547
Azusa	123.3	62.44	1.0	7 x 3.37	10.11	171	18.88	0.5365
Anaheim	155.4	78.55	2/0	7 x 3.78	11.34	216	23.75	0.4264
Amherst	195.7	99.30	3/0	7 x 4.25	12.75	272	30.03	0.3373
Alliance	246.9	125.10	4/0	7 x 4.77	14.31	343	37.83	0.2678
Butte	312.8	158.60	266.8	19 x 3.26	16.30	435	46.46	0.2112
Canton	394.5	199.90	336.4	19 x 3.66	18.30	548	58.56	0.1676
Cairo	465.4	236.40	397.5	19 x 3.98	19.90	649	69.25	0.1417
Darien	559.5	283.57	477.0	19 x 4.36	21.80	778	83.10	0.1181
Elgin	652.6	331.00	556.5	19 x 4.71	23.55	908	96.98	0.1012
Flint	740.8	374.50	636.0	37 x 3.59	25.13	1028	107.36	0.0894
Greeley	927.2	469.60	795.0	37 x 4.02	28.14	1289	134.62	0.0713

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy 6201-T81 Conductors ( AAAC )

Total Area		Equivalent Copper Area		Stranding	Conductor Overall diameter	Weight	Rated Strength	ASTM Spec Maximum DC resistance at 20 °C
AWG or MCM	mm <sup>2</sup>	AWG or MCM	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
6	13.28	9	7	7 / 1.554	4.66	36	4.206	2.5230
4	21.14	7	11	7 / 1.961	5.88	58	6.698	1.5844
2	33.65	5	18	7 / 2.474	7.42	92	10.66	0.9955
0	53.48	3	28	7 / 3.119	9.36	147	16.94	0.6263
2/0	67.46	2	35	7 / 3.503	10.51	185	20.40	0.4965
3/0	85.0	1	45	7 / 3.932	11.80	233	25.70	0.3941
4/0	107.3	1/0	56	7 / 4.417	13.25	294	32.44	0.3123
250	126.6	133	66	19 / 2.913	14.57	347	38.86	0.2645
300	152.1	159	80	19 / 3.193	15.97	417	46.69	0.2202
350	177.3	186	93	19 / 3.447	17.24	486	51.94	0.1889
400	202.7	212	106	19 / 3.686	18.43	556	59.39	0.1652
450	228.0	239	120	19 / 3.909	19.55	626	66.80	0.1469
500	253.3	265	133	19 / 4.12	20.60	695	74.20	0.1322
550	278.5	292	146	37 / 3.096	21.67	764	83.65	0.1203
600	303.7	318	159	37 / 3.233	22.63	833	91.21	0.1103
650	329.2	345	173	37 / 3.366	23.56	903	94.38	0.1017
700	354.6	371	186	37 / 3.493	24.45	973	101.63	0.09448
750	380.2	398	200	37 / 3.617	25.32	1043	108.98	0.08811
800	405.2	425	213	37 / 3.734	26.14	1112	116.14	0.08268
900	456.2	478	240	37 / 3.962	27.73	1252	130.76	0.07343
1000	506.8	531	266	37 / 4.176	29.23	1390	145.27	0.06610

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy 6201 Conductors ( AAAC-6201 )

Code Name	Area Actual	Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Australian Spec Maximum DC Resistance at 20°C
	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
Diamond	34.36	18.0	7/2.50	7.50	94.3	9.64	0.967
Dolomite	41.58	21.8	7/2.75	8.25	113	11.6	0.799
Emerald	49.48	26.0	7/3.00	9.00	135	13.9	0.671
Garnet	77.28	40.6	7/3.75	11.3	211	21.7	0.430
Jade	111.3	58.4	7/4.50	13.5	304	31.2	0.298
Jasper	124.0	65.1	7/4.75	14.3	339	34.8	0.268
Opal	157.6	82.7	19/3.25	16.3	433	44.2	0.212
Patronite	182.8	96.0	19/3.50	17.5	503	51.3	0.183
Pearl	209.8	110.1	19/3.75	18.8	576	58.8	0.159
Rutile	336.7	176.8	19/4.75	23.8	924	94.4	0.0991
Ruby	261.6	137.3	37/3.00	21.0	721	73.5	0.128
Ruthenium	307.0	161.2	37/3.25	22.8	845	86.1	0.109
Sapphire	408.5	214.5	37/3.75	26.3	1120	115	0.0819
Spinel	506.1	265.7	61/3.25	29.3	1400	135	0.0662
Tantalum	586.9	308.1	61/3.50	31.5	1620	156	0.0572
Topaz	673.4	353.5	61/3.75	33.8	1860	179	0.0498

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy 1120 Conductors ( AAAC-1120 )

Code Name	Area Actual	Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Australian Spec Maximum DC Resistance at 20°C
	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
Chlorine	34.36	20.3	7/2.50	7.50	94.3	8.18	0.864
Chromium	41.58	24.5	7/2.75	8.25	113	9.91	0.713
Fluorine	49.48	29.2	7/3.00	9.0	135	11.8	0.599
Helium	77.28	45.6	7/3.75	11.3	211	17.6	0.383
Hydrogen	111.3	65.7	7/4.50	13.5	304	24.3	0.266
Iodine	124.0	73.2	7/4.75	14.3	339	27.1	0.239
Krypton	157.6	93.0	19/3.25	16.3	433	37.4	0.189
Lutetium	182.8	107.9	19/3.50	17.5	503	41.7	0.163
Neon	209.8	123.8	19/3.75	18.8	576	47.8	0.142
Oxygen	336.7	198.7	19/4.75	23.8	924	73.6	0.0884
Nitrogen	261.6	154.3	37/3.00	21.0	721	62.2	0.114
Nobelium	307.0	181.1	37/3.25	22.8	845	72.8	0.0973
Phosphorous	408.5	241.0	37/3.75	26.3	1120	93.1	0.0731
Selenium	506.1	298.6	61/3.25	29.3	1400	114	0.0592
Silicon	586.9	346.3	61/3.50	31.5	1620	127	0.0511
Sulfur	673.4	397.3	61/3.75	33.8	1860	145	0.0444

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors ( AAAC )

British Spec

Code Name	Nominal Aluminum Area	Equivalent Copper Area	Stranding	Overall Diameter	Total Area	Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm <sup>2</sup>	mm <sup>2</sup>	N <sup>o</sup> / mm	mm	mm <sup>2</sup>	kg/km	kN	Ω /km
-	10	6.24	7/1.47	4.41	11.88	32	3.33	2.771
Box	15	9.88	7/1.85	5.55	18.82	51	5.27	1.750
Acacia	20	12.50	7/2.08	6.24	23.79	65	6.67	1.384
Almond	25	15.80	7/2.34	7.02	30.10	82	8.44	1.094
Cedar	30	18.60	7/2.54	7.62	35.47	97	9.94	0.9281
-	35	22.1	7/2.77	8.31	42.18	115	11.82	0.7804
Fir	40	25.1	7/2.95	8.85	47.84	131	13.40	0.6880
Hazel	50	31.4	7/3.30	9.90	59.87	164	16.80	0.5498
Pine	60	37.6	7/3.61	10.83	71.65	196	20.08	0.4595
-	70	44.1	7/3.91	11.73	84.05	230	23.56	0.3917
Willow	75	47.1	7/4.04	12.12	89.73	245	25.15	0.3669
-	80	50.7	7/4.19	12.57	96.52	264	27.05	0.3411
-	90	57.2	7/4.45	13.35	108.9	298	30.51	0.3024
Oak	100	62.4	7/4.65	13.95	118.9	325	33.30	0.2769
-	100	62.3	19/2.82	14.1	118.7	326	33.26	0.2788
Mulberry	125	79.2	19/3.18	15.9	150.9	415	42.29	0.2192
Ash	150	94.9	19/3.48	17.4	180.7	497	50.65	0.1830
Elm	175	111.0	19/3.76	18.8	211.0	580	59.10	0.1568
Poplar	200	126.0	37/2.87	20.09	239.4	659	67.08	0.1385
-	225	142.0	37/3.05	21.35	270.3	744	75.76	0.1226
Sycamore	250	159.0	37/3.23	22.61	303.2	835	84.97	0.1094
Upas	300	190.0	37/3.53	24.71	362.1	997	101.5	0.09155
-	350	221.0	37/3.81	26.67	421.8	1162	118.2	0.0786
Yew	400	251.0	37/4.06	28.42	479.0	1319	134.2	0.0692

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors

Area		Equivalent Copper Area		Total Area		Stranding	Conductor Overall diameter	Weight	Rated Strength	Canadian Size
										Maximum DC resistance at 20 °C
AWG or MCM	mm <sup>2</sup>	AWG or MCM	mm <sup>2</sup>	MCM	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
8	8.3	10	5.1	19	9.5	7/1.32	3.96	26	2.92	3.440
7	10.5	9	6.4	24	12.0	7/1.48	4.44	33	3.67	2.737
6	13.2	8	8.0	30	15.2	7/1.66	4.98	41	4.62	2.175
5	16.8	7	10.6	38	19.1	7/1.86	5.58	52	5.80	1.733
4	20.9	6	12.7	48	24.1	7/2.09	6.27	66	7.32	1.372
3	26.4	5	16.1	60	30.4	7/2.35	7.05	83	9.26	1.085
2	33.3	4	20.3	76	38.3	7/2.64	7.92	105	11.69	0.8601
1	41.9	3	25.5	95	48.3	7/2.96	8.88	132	14.69	0.6842
1/0	53.0	2	32.3	120	61.0	7/3.33	9.99	166	18.59	0.5406
2/0	66.8	1	40.8	152	76.8	7/3.74	11.22	210	23.45	0.4286
3/0	84.3	1/0	51.4	192	97.0	7/4.20	12.60	265	29.58	0.3398
4/0	106.4	2/0	64.9	241	122.5	7/4.72	14.16	334	37.36	0.2691
4/0	106.1	2/0	64.7	241	122.1	19/2.86	14.30	335	37.23	0.2713
266.8	133.6	3/0	81.5	304	153.8	19/3.21	16.05	421	46.90	0.2154
300	150.8	189	92.0	342	173.5	19/3.41	17.05	475	52.92	0.1908
336	169.0	4/0	103.1	384	194.4	19/3.61	18.05	533	59.31	0.1703
397.5	199.2	250	121.5	453	229.3	19/3.92	19.60	629	69.94	0.1444
477	239.7	300	146.2	544	275.9	19/4.30	21.50	756	84.16	0.1200
500	250.5	315	152.8	570	288.3	37/3.15	22.05	791	87.95	0.1151
556.5	280.0	350	170.8	635	322.2	37/3.33	23.31	885	98.28	0.1030
636	320.0	400	195.2	725	368.3	37/3.56	24.92	1012	112.33	0.0901
715.5	358.9	450	218.9	816	413.0	37/3.77	26.39	1134	125.97	0.0804
750	376.2	472	229.5	856	433.0	37/3.86	27.02	1188	132.06	0.0767
795	399.9	500	244.0	907	460.3	37/3.98	27.86	1264	140.40	0.0721
814.5	436.9	550	266.5	997	502.9	37/4.16	29.12	1380	153.38	0.0660

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors (AAAC)

DIN Spec.

Area		Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Maximum DC Resistance at 20°C
Nominal	Actual						
mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
16	15.89	8	7/1.7	5.1	43	4.44	2.090
25	24.25	13	7/2.1	6.3	66	6.77	1.369
35	34.36	18	7/2.5	7.5	94	9.60	0.9665
50	49.48	26	7/3.0	9.0	135	13.82	0.6711
50	48.36	25	19/1.8	9.0	133	13.50	0.6902
70	65.82	35	19/2.1	10.5	181	18.38	0.5071
95	93.27	49	19/2.5	12.5	256	26.05	0.3578
120	117.0	61	19/2.8	14.0	322	32.68	0.2852
150	147.1	77	37/2.25	15.75	406	41.09	0.2273
185	181.6	95	37/2.5	17.50	500	50.73	0.1842
240	242.5	127	61/2.25	20.25	670	67.74	0.1382
300	299.4	157	61/2.5	22.50	827	83.63	0.1119
400	400.1	210	61/2.89	26.01	1104	111.76	0.08377
500	499.8	262	61/3.23	29.07	1379	139.60	0.06706
625	626.2	329	91/2.96	32.56	1732	174.90	0.05365
800	802.1	421	91/3.35	36.85	2218	224.02	0.04188
1000	999.7	525	91/3.74	41.14	2767	279.22	0.03360

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors ( AAAC )

Code Name		French Sizes						
		Equivalent Copper Area	Stranding	Overall Diameter	Total Area	Weight	Rated Strength	Maximum DC Resistance at 20°C
		mm <sup>2</sup>	N° / mm	mm	mm <sup>2</sup>	kg/km	kN	Ω /km
ASTER	22	11.84	7/2.0	6.0	21.99	60	715	1.50
ASTER	34.4	18.0	7/2.5	7.5	34.36	94	1115	0.958
ASTER	54.6	28.6	7/3.15	9.45	54.55	149	1775	0.603
ASTER	75.5	41.3	19/2.25	11.25	75.54	208	2455	0.438
ASTER	117.0	63.9	19/2.8	14.0	117.0	322	3800	0.283
ASTER	148	80.9	19/3.15	15.75	148.1	407	4810	0.224
ASTER	181.6	99.2	37/2.5	17.5	181.6	500	5900	0.183
ASTER	228	124.5	37/2.8	19.6	227.8	627	7405	0.146
ASTER	288	157.6	37/3.15	22.05	288.3	794	9370	0.115
ASTER	366	200.1	37/3.55	27.85	366.2	1009	11535	0.0905
ASTER	570	311.6	61/3.45	31.05	570.2	1574	18530	0.0583
ASTER	851	464.8	91/3.45	37.95	850.7	2354	27650	0.0391
ASTER	1144	624.9	91/4.0	44.0	1143.5	3164	36020	0.0292
ASTER	1600	872.1	127/4.0	52.0	1595.9	4425	50270	0.0206

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors Type A3

Code Name	Area Actual	Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	IEC Spec Maximum DC Resistance at 20°C
	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
16	18.6	9.8	7/1.84	5.52	50.8	6.04	1.7896
25	29.0	15.2	7/2.30	6.90	79.5	9.44	1.1453
40	46.5	24.4	7/2.91	8.73	127.1	15.10	0.7158
63	73.2	38.4	7/3.65	10.95	200.2	23.06	0.4545
100	116	61	19/2.79	14.0	319.3	37.76	0.2877
125	145	76	19/3.12	15.6	399.2	47.20	0.2302
160	186	98	19/3.53	17.7	511.0	58.56	0.1798
200	232	122	19/3.95	19.8	638.7	73.20	0.1439
250	290	152	19/4.41	22.1	798.4	91.50	0.1151
315	366	192	37/3.55	24.9	1008.4	115.29	0.0916
400	465	244	37/4.00	28.0	1280.5	146.40	0.0721
450	523	275	37/4.24	29.7	1440.5	164.70	0.0641
500	581	305	37/4.47	31.3	1600.6	183.00	0.0577
560	651	342	61/3.69	33.2	1795.3	204.96	0.0516
630	732	384	61/3.91	35.2	2019.8	230.58	0.0458
710	825	433	61/4.15	37.4	2276.2	259.86	0.0407
800	930	488	61/4.40	39.6	2564.8	292.80	0.0361
900	1046	549	91/3.83	42.1	2888.3	329.40	0.0321
1000	1162	610	91/4.03	44.3	3209.3	366.00	0.0289
1120	1301	683	91/4.27	47.0	3594.5	409.92	0.0258

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors Type A2

IEC Spec

Code Name	Area Actual	Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Maximum DC Resistance at 20°C
	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
16	18.4	9.8	7/1.83	5.49	50.4	5.43	1.7896
25	28.8	15.3	7/2.9	6.87	78.7	8.49	1.1453
40	46.0	24.4	7/2.89	8.67	125.9	13.58	0.7158
63	72.5	38.4	7/3.63	10.9	198.3	21.39	0.4545
100	115	61	19/2.78	13.9	316.3	33.95	0.2877
125	144	76	19/3.10	15.5	395.4	42.44	0.2302
160	184	98	19/3.51	17.6	506.1	54.32	0.1798
200	230	122	19/3.93	19.7	632.7	67.91	0.1439
250	288	153	19/4.39	22.0	790.8	84.88	0.1151
315	363	192	37/3.53	24.7	998.9	106.95	0.0916
400	460	244	37/3.98	27.9	1268.4	135.81	0.0721
450	518	275	37/4.22	29.5	1426.9	152.79	0.0641
500	575	305	37/4.45	31.2	1585.5	169.76	0.0577
560	645	342	61/3.67	33.0	1778.4	190.14	0.0516
630	725	384	61/3.89	35.0	2000.7	213.90	0.0458
710	817	433	61/4.13	37.2	2254.8	241.07	0.0407
800	921	488	61/4.38	39.4	2540.6	271.62	0.0361
900	1036	549	91/3.81	41.9	2861.1	305.58	0.0321
1000	1151	610	91/4.01	44.1	3179.0	339.53	0.0289
1120	1289	683	91/4.25	46.8	3560.5	380.27	0.0258
1250	1439	763	91/4.49	49.4	3973.7	424.41	0.0231

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors (AAAC)

Area		Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Swedish Spec
Nominal	Actual						Maximum DC Resistance at 20°C
mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
31	31.1	17.7	7/2.38	7.14	85	9.31	0.974
62	62.4	35.6	7/3.37	10.11	170	17.20	0.486
99	99.3	56.6	7/4.25	12.75	271	25.30	0.305
157	158.6	90.4	19/3.26	16.30	436	43.70	0.193
241	241.2	137.5	19/4.02	20.10	663	61.60	0.127
329	330.0	188.1	37/3.37	23.59	910	90.70	0.0928
454	454.5	259.1	61/3.08	27.72	1260	125.00	0.0675
593	593.6	338.4	61/3.52	31.68	1640	157.00	0.0517
774	774.2	441.3	61/4.02	36.18	2140	197.00	0.0396
910	910.7	519.1	61/4.36	39.24	2520	232.00	0.0337

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy

## CONDUCTOR DATA SHEET

### All Aluminum Alloy Conductors (AL-59)

Area		Equivalent Copper Area	Stranding	Overall Diameter	Weight	Rated Strength	Swedish Spec
Nominal	Actual						Maximum DC Resistance at 20°C
mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>	N° / mm	mm	kg/km	kN	Ω /km
31	31.1	18.3	7/2.38	7.14	85	7.77	0.943
62	62.4	36.8	7/3.37	10.11	170	15.60	0.470
99	99.3	58.6	7/4.25	12.75	271	22.80	0.296
157	158.6	93.5	19/3.26	16.30	436	39.70	0.186
241	241.2	142.3	19/4.02	20.10	663	55.50	0.123
329	330.0	194.7	37/3.37	23.59	910	82.50	0.0899
454	454.5	268.2	61/3.08	27.72	1260	113.00	0.0654
593	593.6	350.2	61/3.52	31.68	1640	143.00	0.0501
774	774.2	456.8	61/4.02	36.18	2140	178.00	0.0384
910	910.7	537.3	61/4.36	39.24	2520	209.00	0.0326

Note: All the data set out in this catalogue is given for information purpose only and Midal Cables shall not be held responsible for its accuracy