

ALL ALUMINUM ALLOY CONDUCTOR (AAAC)

All Aluminium Alloy Conductors (AAAC): These are made out of high strength Aluminium-Magnesium-Silicon alloy. As compared to conventional ACSR, AAAC are of lighter weight, comparable strength & current carrying capacity, lower electrical losses and superior corrosion resistance, This has given AAAC a wide acceptance in the distribution and transmission lines.. This conductor has a minimum conductivity of 52.5% IACS.

Construction

Aluminum Alloy 6201 Wires, concentrically stranded over a central wire of Aluminum 6201.

Aluminum Alloy 6201 Wires



Aluminum Alloy 6201 Wires



Features:

- High strength to weight ratio
- Better Sag Characteristics
- Improved electrical Properties
- Excellent resistance to corrosion

Available with Non-Specular (Dull) Surface Finish and Color Coated as per customized requirements.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - ASTM B 399

Code Word	Conductor size	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(kcmil)	(mm ²)					(No.)	(mm)
-	1439.2	729	61	3.90	35.10	1999.00	207.00	0.04597	693	897
-	1348.8	685	61	3.78	34.02	1878.00	194.00	0.04893	671	865
-	1259.6	638	61	3.65	32.85	1751.00	181.00	0.05248	646	831
-	1165.1	590	61	3.51	31.59	1620.00	167.00	0.05675	620	794
-	1077.4	547	61	3.38	30.42	1502.00	156.00	0.06120	595	760
Greeley	927.2	470	37	4.02	28.14	1289.00	135.00	0.07133	547	694
Flint	740.8	375	37	3.59	25.13	1028.00	107.00	0.08944	482	607
Elgin	652.4	331	19	4.71	23.55	908.30	97.00	0.10120	449	564
Darien	559.5	284	19	4.36	21.80	778.30	83.10	0.11810	412	514
Cairo	465.4	236	19	3.98	19.90	648.60	69.20	0.14170	371	461
Canton	394.5	200	19	3.66	18.30	548.50	58.60	0.16760	337	417
Butte	312.8	159	19	3.26	16.30	435.10	46.50	0.21120	295	362
Alliance	246.9	125	7	4.77	14.31	343.20	37.80	0.26780	256	313
Amherst	195.7	99.3	7	4.25	12.75	272.50	30.00	0.33730	224	272
Anaheim	155.4	78.6	7	3.78	11.34	215.60	23.80	0.42640	195	236
Azusa	123.3	62.4	7	3.37	10.11	171.30	18.90	0.53650	170	205
Ames	77.47	39.2	7	2.67	8.01	107.50	12.40	0.85470	129	154
Alton	48.69	24.7	7	2.12	6.36	67.80	7.83	1.35600	98	116
Akron	30.58	15.5	7	1.68	5.04	42.58	4.92	2.15900	74	88

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - ASTM B 399

AWG	Conductor size	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(kcmil)	(mm ²)					(No.)	(mm)
-	1750	886	61	4.30	38.70	2431.0	251.00	0.03781	767	1002
-	1500	759	61	3.98	35.82	2082.0	215.00	0.04414	708	918
-	1250	631	61	3.63	32.67	1732.0	179.00	0.05306	642	826
-	1000	508	37	4.18	29.26	1393.0	146.00	0.06597	571	727
-	900	456	37	3.96	27.72	1250.0	131.00	0.07351	538	682
-	800	404	37	3.73	26.11	1109.0	116.00	0.08285	503	636
-	750	381	37	3.62	25.34	1045.0	109.00	0.08796	487	613
-	700	354	37	3.49	24.43	971.2	101.00	0.09464	467	587
-	650	330	37	3.37	23.59	905.5	94.90	0.10150	449	563
-	600	303	37	3.23	22.61	831.9	91.00	0.11049	428	535
-	550	279	37	3.10	21.70	766.2	83.90	0.11995	408	510
-	500	253	19	4.12	20.60	695.0	74.20	0.13224	386	480
-	450	228	19	3.91	19.55	626.0	66.80	0.14683	364	451
-	400	203	19	3.69	18.45	557.5	59.50	0.16486	340	421
-	350	178	19	3.45	17.25	487.3	52.00	0.18860	315	388
-	300	152	19	3.19	15.95	416.7	46.60	0.22059	287	353
-	250	126	19	2.91	14.55	346.7	38.80	0.26509	258	316
0000	211.6	107	7	4.42	13.26	294.7	32.50	0.31188	234	285
000	167.8	84.9	7	3.93	11.79	233.0	25.70	0.39450	204	247
00	133.1	67.3	7	3.50	10.50	184.8	20.40	0.49738	178	215
0	105.6	53.5	7	3.12	9.36	146.8	17.00	0.62592	155	187
2	66.36	33.5	7	2.47	7.41	92.0	10.60	0.99870	118	140
4	41.74	21.1	7	1.96	5.88	57.9	6.69	1.58600	89	106
6	26.24	13.2	7	1.55	4.65	36.2	4.18	2.53610	67	79

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A2

Code Word	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
		(mm ²)	(No.)					(mm)	(Kg/Km)
10-A2-7	11.51	7	1.45	4.35	31.42	3.51	2.863	62	74
16-A2-7	18.42	7	1.83	5.49	50.28	5.62	1.790	83	98
25-A2-7	28.77	7	2.29	6.87	78.56	8.78	1.145	108	129
40-A2-7	46.04	7	2.89	8.67	125.7	14.0	0.7159	143	172
63-A2-7	72.51	7	3.63	10.89	198.0	22.1	0.4545	187	226
100-A2-19	115.10	19	2.78	13.90	315.8	35.1	0.2877	246	300
125-A2-19	143.9	19	3.10	15.50	394.7	43.9	0.2302	280	343
160-A2-19	184.2	19	3.51	17.55	505.2	56.2	0.1798	323	399
200-A2-19	230.2	19	3.93	19.65	631.5	70.2	0.1439	368	456
250-A2-19	287.7	19	4.39	21.95	789.4	87.8	0.1151	417	521
315-A2-37	362.5	37	3.53	24.71	997.0	111.0	0.09156	475	598
400-A2-37	460.4	37	3.98	27.86	1266.0	140.0	0.07210	543	689
450-A2-37	517.9	37	4.22	29.54	1424.0	158.0	0.06409	580	739
500-A2-37	575.5	37	4.45	31.15	1583.0	176.0	0.05768	614	786
560-A2-37	644.5	37	4.71	32.97	1772.0	197.0	0.05150	652	839
630-A2-61	725.1	61	3.89	35.01	1997.0	221.0	0.04585	694	898
710-A2-61	817.2	61	4.13	37.17	2251.0	249.0	0.04068	739	961
800-A2-61	920.8	61	4.38	39.42	2536.0	281.0	0.03610	785	1027
900-A2-61	1036	61	4.65	41.85	2853.0	316.0	0.03209	832	1096
1000-A2-91	1152	91	4.02	44.22	3177.0	351.0	0.02888	876	1161
1120-A2-91	1289	91	4.25	46.75	3554.0	393.0	0.02582	923	1231
1250-A2-91	1439	91	4.49	49.39	3966.0	439.0	0.02313	969	1303
1400-A2-91	1611	91	4.75	52.25	4442.0	491.0	0.02065	1017	1377
1500-A2-91	1726	91	4.91	54.01	4760.0	526.0	0.01928	1045	1423

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A4

Code Word	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
		(mm ²)	(No.)					(mm)	(Kg/Km)
10-A4-7	10.61	7	1.39	4.17	28.96	2.65	2.8630	62	73
16-A4-7	16.97	7	1.76	5.28	46.34	4.24	1.7900	82	97
25-A4-7	26.52	7	2.20	6.60	72.41	6.63	1.1450	107	128
40-A4-7	42.43	7	2.78	8.34	115.9	10.6	0.7159	142	170
63-A4-7	66.83	7	3.49	10.47	182.5	16.7	0.4545	186	225
100-A4-19	106.1	19	2.67	13.35	291.1	26.5	0.2877	244	297
125-A4-19	132.6	19	2.98	14.90	363.8	33.2	0.2302	278	340
160-A4-19	169.7	19	3.37	16.85	465.7	42.4	0.1798	321	395
200-A4-19	212.2	19	3.77	18.85	582.1	53.1	0.1439	365	452
250-A4-19	265.2	19	4.22	21.10	727.6	66.3	0.1151	415	517
315-A4-37	334.2	37	3.39	23.73	919.0	83.6	0.09156	473	593
400-A4-37	424.3	37	3.82	26.74	1167.0	106.0	0.07210	540	684
450-A4-37	277.4	37	4.05	28.35	1313.0	119.0	0.06409	577	733
500-A4-37	530.4	37	4.27	29.89	1459.0	133.0	0.05768	611	779
560-A4-37	594.1	37	4.52	31.64	1634.0	149.0	0.05150	649	832
630-A4-61	668.3	61	3.74	33.66	1841.0	167.0	0.04585	691	891
710-A4-61	753.20	61	3.97	35.73	2074.0	188.0	0.04068	736	954
800-A4-61	848.70	61	4.21	37.89	2337.0	212.0	0.03610	782	1019
900-A4-61	954.80	61	4.46	40.14	2629.0	239.0	0.03209	829	1088
1000-A4-91	1062.00	91	3.85	42.35	2928.0	266.0	0.02888	873	1152
1120-A4-91	1188.00	91	4.08	44.88	3276.0	297.0	0.02582	920	1222
1250-A4-91	1326.00	91	4.31	47.41	3656.0	332.0	0.02313	967	1293
1400-A4-91	1485.00	91	4.56	50.16	4095.0	371.0	0.02065	1015	1367
1500-A4-91	1591.00	91	4.72	51.92	4387.0	398.0	0.01928	1044	1413

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A2

(Properties for A2 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
13-A2-7	Fredericton	15.30	7	1.67	5.01	41.78	4.67	2.1540	74	88
21-A2-7	Whitehorse	24.34	7	2.10	6.30	66.46	7.42	1.3540	98	116
27-A2-7	-	30.69	7	2.36	7.08	83.79	9.36	1.0740	112	134
34-A2-7	Halifax	38.70	7	2.65	7.95	105.7	11.8	0.8516	129	154
42-A2-7	Regina	48.84	7	2.98	8.94	133.3	14.9	0.6752	148	178
54-A2-7	Montreal	61.59	7	3.35	10.05	168.1	18.8	0.5351	170	205
67-A2-7	Winnipeg	77.62	7	3.76	11.28	211.9	23.7	0.4246	195	236
85-A2-7	Toronto	97.86	7	4.22	12.66	267.2	29.9	0.3368	224	272
107-A2-7	Vancouver	123.4	7	4.74	14.22	336.9	37.6	0.2671	256	313
127-A2-19	-	145.8	19	3.13	15.65	400.0	44.5	0.2271	282	346
135-A2-7	-	155.6	7	5.32	15.96	424.8	47.5	0.2118	293	360
135-A2-19	Calgary	155.6	19	3.23	16.15	426.9	47.5	0.2128	293	360
152-A2-19	-	175.0	19	3.42	17.10	480.0	53.4	0.1893	314	386
170-A2-19	Edmonton	196.2	19	3.63	18.15	538.2	59.8	0.1688	335	414
177-A2-19	-	204.1	19	3.70	18.50	560.0	62.3	0.1622	343	424
201-A2-19	Brockville	231.8	19	3.94	19.70	636.0	70.7	0.1429	369	458
203-A2-19	-	233.3	19	3.95	19.75	640.0	71.2	0.1420	370	460
228-A2-19	-	262.4	19	4.19	20.95	720.0	80.0	0.1262	396	493
242-A2-19	Quebec	278.2	19	4.32	21.60	763.2	84.9	0.1190	410	511
253-A2-19	-	291.6	19	4.42	22.10	800.0	88.9	0.1136	421	526
279-A2-37	-	320.8	37	3.32	23.24	882.1	97.8	0.1035	444	556
282-A2-19	-	324.5	19	4.66	23.30	890.4	99.0	0.1020	447	560
304-A2-37	-	349.9	37	3.47	24.29	962.3	107.0	0.09486	466	586
322-A2-37	-	370.9	37	3.57	24.99	1020.0	113.0	0.08949	482	606
329-A2-37	-	379.1	37	3.61	25.27	1042.0	116.0	0.08757	487	614
355-A2-37	-	408.2	37	3.75	26.25	1123.0	125.0	0.08131	508	642
363-A2-37	-	417.3	37	3.79	26.53	1147.0	127.0	0.07955	514	650

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A2

(Properties for A2 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
380-A2-37	-	437.4	37	3.88	27.16	1203.0	133.0	0.07589	528	669
403-A2-37	-	463.6	37	3.99	27.93	1275.0	141.0	0.07160	545	692
405-A2-37	-	466.6	37	4.01	28.07	1283.0	142.0	0.07115	547	695
443-A2-37	-	510.0	37	4.19	29.33	1403.0	156.0	0.06509	575	732
456-A2-37	-	524.9	37	4.25	29.75	1443.0	160.0	0.06324	584	745
470-A2-37	-	540.7	37	4.31	30.17	1487.0	165.0	0.06139	593	758
483-A2-37	-	556.4	37	4.38	30.66	1530.0	170.0	0.05966	603	771
507-A2-37	-	583.2	37	4.48	31.36	1604.0	178.0	0.05692	618	792
524-A2-37	-	602.7	37	4.55	31.85	1657.0	184.0	0.05507	629	807
557-A2-61	-	641.5	61	3.66	32.94	1767.0	196.0	0.05182	650	837
564-A2-61	-	649.1	61	3.68	33.12	1788.0	198.0	0.05121	654	842
604-A2-61	-	695.5	61	3.81	34.29	1915.0	212.0	0.04780	679	876
608-A2-61	-	699.8	61	3.82	34.38	1927.0	213.0	0.04750	681	879
645-A2-61	-	741.8	61	3.93	35.37	2043.0	226.0	0.04481	702	909
659-A2-61	-	758.1	61	3.98	35.82	2088.0	231.0	0.04385	710	921
685-A2-61	-	788.2	61	4.06	36.54	2171.0	240.0	0.04218	725	941
709-A2-61	-	816.5	61	4.13	37.17	2249.0	249.0	0.04072	738	960
725-A2-61	-	834.5	61	4.17	37.53	2298.0	255.0	0.03983	747	972
760-A2-61	-	874.8	61	4.27	38.43	2409.0	267.0	0.03800	765	998
765-A2-61	-	880.9	61	4.29	38.61	2426.0	269.0	0.03774	768	1002
806-A2-61	-	927.3	61	4.40	39.60	2554.0	283.0	0.03585	788	1031
811-A2-61	-	933.1	61	4.41	39.69	2570.0	285.0	0.03563	790	1035
861-A2-61	-	991.4	61	4.55	40.95	2730.0	302.0	0.03353	815	1070
912-A2-91	-	1050.0	91	3.83	42.13	2894.0	320.0	0.03170	837	1104
1013-A2-91	-	1166.0	91	4.04	44.44	3216.0	356.0	0.02853	881	1168
1140-A2-91	-	1312.0	91	4.28	47.08	3618.0	400.0	0.02536	930	1242

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A2

(Properties for A2 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
1234-A2-91	-	1420.0	91	4.46	49.06	3916.0	433.0	0.02343	964	1294
1267-A2-91	-	1458.0	91	4.52	49.72	4020.0	445.0	0.02283	975	1311
1393-A2-91	-	1604.0	91	4.74	52.14	4422.0	489.0	0.02075	1015	1374
1520-A2-91	-	1750.0	91	4.95	54.45	4824.0	534.0	0.01902	1051	1432
1524-A2-91	-	1754.0	91	4.95	54.45	4836.0	535.0	0.01897	1052	1434
1773-A2-91	-	2041.0	91	5.34	58.74	5628.0	623.0	0.01630	1112	1534
1844-A2-91	-	2123.0	91	5.45	59.95	5853.0	648.0	0.01568	1127	1559

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A4

(Properties for A4 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
13-A4-7	Fredericton	14.11	7	1.60	4.80	38.51	3.53	2.1540	73	87
21-A4-7	Whitehorse	22.44	7	2.02	6.06	61.26	5.61	1.3540	97	115
27-A4-7	-	28.29	7	2.27	6.81	77.23	7.07	1.0740	111	133
34-A4-7	Halifax	35.67	7	2.55	7.65	97.40	8.92	0.8516	128	153
42-A4-7	Regina	44.99	7	2.86	8.58	122.8	11.3	0.6752	147	176
54-A4-7	Montreal	56.77	7	3.21	9.63	155.0	14.2	0.5351	169	203
67-A4-7	Winnipeg	71.55	7	3.61	10.83	195.3	17.9	0.4246	194	234
85-A4-7	Toronto	90.2	7	4.05	12.15	246.3	22.6	0.3368	222	269
107-A4-7	Vancouver	1113.7	7	4.55	13.65	310.6	28.4	0.2671	254	310
127-A4-19	-	134.4	19	3.00	15.00	368.7	33.6	0.2271	280	343
135-A4-7	-	143.4	7	5.11	15.33	391.6	35.9	0.2118	291	357

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A4

(Properties for A4 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
135-A4-19	Calgary	143.4	19	3.10	15.50	393.5	35.9	0.2128	291	357
152-A4-19	-	161.3	19	3.29	16.45	442.4	40.3	0.1893	312	383
170-A4-19	Edmonton	180.8	19	3.48	17.40	496.1	45.2	0.1688	333	411
177-A4-19	-	188.1	19	3.55	17.75	516.2	47.0	0.1622	341	421
201-A4-19	Brockville	213.7	19	3.78	18.90	586.2	53.4	0.1429	367	454
203-A4-19	-	215.0	19	3.80	19.00	589.9	53.8	0.1420	368	456
228-A4-19	-	241.9	19	4.03	20.15	663.7	60.5	0.1262	394	489
242-A4-19	Quebec	256.4	19	4.15	20.75	703.5	64.1	0.1190	407	507
253-A4-19	-	268.8	19	4.24	21.20	737.4	67.2	0.1136	418	521
279-A4-37	-	295.7	37	3.19	22.33	813.0	73.9	0.1035	441	552
282-A4-19	-	299.1	19	4.48	22.40	820.7	74.8	0.1020	445	556
304-A4-37	-	322.5	37	3.33	23.31	887.0	80.6	0.09486	463	581
322-A4-37	-	341.9	37	3.43	24.01	940.2	85.5	0.08949	479	602
329-A4-37	-	349.4	37	3.47	24.29	960.9	87.4	0.08757	485	609
355-A4-37	-	376.3	37	3.60	25.20	1035.0	94.1	0.08131	505	637
363-A4-37	-	384.6	37	3.64	25.48	1058.0	96.2	0.07955	512	645
380-A4-37	-	403.2	37	3.72	26.04	1109.0	101.0	0.07589	525	663
403-A4-37	-	427.4	37	3.83	26.81	1175.0	107.0	0.07160	542	686
405-A4-37	-	430.0	37	3.85	26.95	1183.0	108.0	0.07115	544	689
443-A4-37	-	470.1	37	4.02	28.14	1293.0	118.0	0.06509	572	726
456-A4-37	-	483.8	37	4.08	28.56	1330.0	121.0	0.06324	581	739
470-A4-37	-	498.4	37	4.14	28.98	1371.0	125.0	0.06139	590	752
483-A4-37	-	512.8	37	4.20	29.40	1410.0	128.0	0.05966	600	764
507-A4-37	-	537.6	37	4.30	30.10	1478.0	134.0	0.05692	615	786
524-A4-37	-	555.6	37	4.37	30.59	1528.0	139.0	0.05507	626	801
557-A4-61	-	591.3	61	3.51	31.59	1628.0	148.0	0.05182	647	830

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - CAN/CSA-C61089-11, Type-A4

(Properties for A4 Conductors Sizes Equivalent to Canadian A1 Sizes)

Code Word	Conductor Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
564-A4-61	-	598.3	61	3.53	31.77	1648.0	150.0	0.05121	651	835
604-A4-61	-	641.0	61	3.66	32.94	1765.0	160.0	0.04780	676	870
608-A4-61	-	645.1	61	3.67	33.03	1777.0	161.0	0.04750	678	873
645-A4-61	-	683.8	61	3.78	34.02	1883.0	171.0	0.04481	699	902
659-A4-61	-	698.8	61	3.82	34.38	1925.0	175.0	0.04385	707	914
685-A4-61	-	726.5	61	2.89	26.01	2001.0	182.0	0.04218	697	881
709-A4-61	-	752.6	61	3.96	35.64	2073.0	188.0	0.04072	735	953
725-A4-61	-	769.2	61	4.01	36.09	2118.0	192.0	0.03983	744	965
760-A4-61	-	806.3	61	4.10	36.90	2221.0	202.0	0.03800	762	991
765-A4-61	-	812.0	61	4.12	37.08	2236.0	203.0	0.03774	765	995
806-A4-61	-	854.7	61	4.22	37.98	2354.0	214.0	0.03585	785	1023
811-A4-61	-	860.1	61	4.24	38.16	2369.0	215.0	0.03563	787	1027
861-A4-61	-	913.8	61	4.37	39.33	2517.0	229.0	0.03353	812	1062
912-A4-91	-	967.6	91	3.68	40.48	2668.0	242.0	0.03170	835	1095
1013-A4-91	-	1075.0	91	3.88	42.68	2964.0	269.0	0.02853	878	1160
1140-A4-91	-	1209.0	91	4.11	45.21	3335.0	302.0	0.02536	928	1233
1234-A4-91	-	1309.0	91	4.28	47.08	3610.0	327.0	0.02343	962	1285
1267-A4-91	-	1344.0	91	4.34	47.74	3705.0	336.0	0.02283	973	1302
1393-A4-91	-	1478.0	91	4.55	50.05	4076.0	370.0	0.02075	1013	1364
1520-A4-91	-	1613.0	91	4.75	52.25	4446.0	403.0	0.01902	1049	1422
1524-A4-91	-	1617.0	91	4.76	52.36	4457.0	404.0	0.01897	1050	1424
1773-A4-91	-	1881.0	91	5.13	56.43	5187.0	470.0	0.01630	1111	1523
1844-A4-91	-	1957.0	91	5.23	57.53	5395.0	489.0	0.01568	1126	1549

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - ABNT NBR 10298

Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
	No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
(mm ²)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
15.52	7	1.68	5.04	42.90	4.93	2.1588	74	88
24.71	7	2.12	6.36	67.80	7.85	1.3557	98	116
39.19	7	2.67	8.01	107.50	12.45	0.8547	129	154
62.44	7	3.37	10.11	171.30	19.00	0.5365	170	205
78.55	7	3.78	11.34	215.50	23.91	0.4264	195	236
99.30	7	4.25	12.75	272.50	30.22	0.3373	224	272
125.09	7	4.77	14.31	343.20	38.07	0.2678	256	313
158.59	19	3.26	16.30	435.10	46.75	0.2112	295	362
199.90	19	3.66	18.30	548.50	58.93	0.1676	337	417
236.38	19	3.98	19.90	648.60	69.69	0.1417	371	461
283.67	19	4.36	21.80	778.30	83.63	0.1181	412	514
331.04	19	4.71	23.55	908.30	97.59	0.1012	449	564
374.53	37	3.59	25.13	1027.60	108.00	0.0894	482	607
469.62	37	4.02	28.14	1288.50	135.50	0.0713	547	695
547.34	61	3.38	30.42	1501.80	156.20	0.0612	595	760
590.25	61	3.51	31.59	1619.50	168.40	0.0568	619	794
638.27	61	3.65	32.85	1751.30	182.10	0.0525	646	831
684.55	61	3.78	34.02	1878.30	195.30	0.0489	671	866
728.70	61	3.90	35.10	1999.40	207.90	0.0460	693	897
33.54	7	2.47	7.41	92.00	10.66	0.9987	118	140
53.52	7	3.12	9.36	146.80	17.01	0.6259	155	187
67.35	7	3.50	10.50	184.80	20.50	0.4974	178	215
84.91	7	3.93	11.79	233.00	25.84	0.3945	204	247
107.41	7	4.42	13.26	294.70	32.69	0.3119	234	285
126.37	19	2.91	14.55	346.70	38.90	0.2651	258	316
151.85	19	3.19	15.95	416.70	46.75	0.2206	287	353
177.62	19	3.45	17.25	487.30	52.36	0.1886	315	388

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - ABNT NBR 10298

Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
	No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
(mm ²)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
203.19	19	3.69	18.45	557.50	59.90	0.1649	340	421
228.14	19	3.91	19.55	626.00	67.26	0.1468	364	451
253.30	19	4.12	20.60	695.00	74.68	0.1322	386	480
279.26	37	3.10	21.70	766.20	84.12	0.1200	408	510
303.18	37	3.23	22.61	831.90	91.32	0.1105	428	535
330.03	37	3.37	23.59	905.50	95.20	0.1015	449	563
353.95	37	3.49	24.43	971.20	102.10	0.0946	467	587
380.81	37	3.62	25.34	1044.90	109.90	0.0880	486	613
404.31	37	3.73	26.11	1109.30	116.60	0.0829	503	635
455.70	37	3.96	27.72	1250.40	131.50	0.0735	538	682
507.74	37	4.18	29.26	1393.10	146.50	0.0660	571	727
631.30	61	3.63	32.67	1732.10	180.10	0.0531	642	825
758.90	61	3.98	35.82	2082.30	216.50	0.0441	709	918
885.84	61	4.30	38.70	2430.60	252.70	0.0378	767	1002

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - IS 398 PART-IV

Actual Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
	No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
(mm ²)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
15	3	2.50	5.39	40.15	4.33	2.3040	73	86
22	7	2.00	6.00	60.16	6.45	1.5410	91	108
34	7	2.50	7.50	94.00	10.11	0.9900	118	141
55	7	3.15	9.45	149.20	16.03	0.6210	156	188
80	7	3.81	11.43	218.26	23.41	0.4250	195	237
100	7	4.26	12.78	272.86	29.26	0.3390	223	271
125	19	2.89	14.45	342.51	36.64	0.2735	254	310
148	19	3.15	15.75	406.91	43.50	0.2290	281	345
173	19	3.40	17.00	474.02	50.54	0.1969	307	378
200	19	3.66	18.30	549.40	58.66	0.1710	334	412
232	19	3.94	19.70	636.67	68.05	0.1471	364	451
288	37	3.15	22.05	794.05	84.71	0.1182	412	515
346	37	3.45	24.15	952.56	101.58	0.0984	457	575
400	37	3.71	25.97	1101.63	117.40	0.0829	503	635
465	37	4.00	28.00	1280.50	136.38	0.0734	539	684
525	61	3.31	29.79	1448.39	146.03	0.0651	576	734
570	61	3.45	31.05	1573.71	158.66	0.0598	603	772
604	61	3.55	31.95	1666.00	167.99	0.0568	620	796
642	61	3.66	32.94	1771.36	178.43	0.0534	641	825
695	61	3.81	34.29	1919.13	193.25	0.0492	670	864
767	61	4.00	36.00	2115.54	213.01	0.0446	705	914

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - AS 1531

Code Name	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
	(mm ²)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(ρ /Km)	(Ampere)	(Ampere)
Diamond	34.36	7	2.50	7.50	94.3	9.64	0.9670	120	143
Dolomite	41.58	7	2.75	8.25	113.0	11.60	0.7990	134	161
Emerald	49.48	7	3.00	9.00	135.0	13.90	0.6710	149	179
Garnet	77.31	7	3.75	11.25	211.0	21.70	0.4300	194	234
Jade	111.33	7	4.50	13.50	304.0	31.20	0.2980	240	293
Jasper	124.00	7	4.75	14.25	339.0	34.80	0.2680	256	313
Opal	157.60	19	3.25	16.25	433.0	44.20	0.2120	294	361
Patronite	182.80	19	3.50	17.50	503.0	51.30	0.1830	320	395
Pearl	209.80	19	3.75	18.75	576.0	58.80	0.1590	347	430
Ruby	261.60	37	3.00	21.00	721.0	73.50	0.1280	393	490
Ruthenium	307.00	37	3.25	22.75	845.0	86.10	0.1090	431	540
Rutile	336.70	19	4.75	23.75	924.0	94.40	0.0991	455	571
Sapphire	408.50	37	3.75	26.25	1120.0	115.0	0.0819	506	640
Spinel	506.10	61	3.25	29.25	1400.0	135.0	0.0662	570	726
Tantalum	586.90	61	3.50	31.50	1620.0	156.0	0.0572	617	791
Topaz	673.40	61	3.75	33.75	1860.0	179.0	0.0498	665	857

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - IEC 61089- Type A2

Code Number	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
		(mm ²)	(No.)					(mm)	(KN)
16	18.4	7	1.83	5.49	50.40	5.43	1.7896	83	98
25	28.8	7	2.29	6.87	78.70	8.49	1.1453	108	129
40	46.0	7	2.89	8.67	125.90	13.58	0.7158	143	172
63	72.5	7	3.63	10.89	198.30	21.39	0.4545	187	226
100	115	19	2.78	13.90	316.30	33.95	0.2877	246	300
125	144	19	3.10	15.50	395.40	42.44	0.2302	280	343
160	184	19	3.51	17.55	506.10	54.32	0.1798	323	399
200	230	19	3.93	19.65	632.70	67.91	0.1439	368	456
250	288	19	4.39	21.95	790.80	84.88	0.1151	417	521
315	363	37	3.53	24.71	998.90	106.95	0.0916	475	598
400	460	37	3.98	27.86	1268.40	135.81	0.0721	543	689
450	518	37	4.22	29.54	1426.90	152.79	0.0641	579	739
500	575	37	4.45	31.15	1585.50	169.76	0.0577	614	786
560	645	61	3.67	33.03	1778.40	190.14	0.0516	652	839
630	725	61	3.89	35.01	2000.70	213.90	0.0458	694	898
710	817	61	4.13	37.17	2254.80	241.07	0.0407	738	961
800	921	61	4.38	39.42	2540.80	271.62	0.0361	785	1027
900	1036	91	3.81	41.91	2861.10	305.58	0.0321	832	1096
1000	1151	91	4.01	44.11	3179.00	339.53	0.0289	876	1160
1120	1289	91	4.25	46.75	3560.50	380.27	0.0258	923	1232
1250	1439	91	4.49	49.39	3973.70	424.41	0.0231	970	1303

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - IEC 61089- Type A3

Code Number	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
		(mm ²)	(No.)					(mm)	(Kg/Km)
16	18.6	7	1.84	5.52	50.80	6.04	1.7896	83	98
25	29.0	7	2.30	6.90	79.50	9.44	1.1453	108	129
40	46.5	7	2.91	8.73	127.10	15.10	0.7158	143	172
63	73.2	7	3.65	10.95	200.20	23.06	0.4545	188	227
100	116	19	2.79	13.95	319.30	37.76	0.2877	246	300
125	145	19	3.12	15.60	399.20	47.20	0.2302	280	344
160	186	19	3.53	17.65	511.00	58.56	0.1798	323	399
200	232	19	3.95	19.75	638.70	73.20	0.1439	368	457
250	290	19	4.41	22.05	798.40	91.50	0.1151	418	522
315	366	37	3.55	24.85	1008.40	115.29	0.0916	476	599
400	465	37	4.00	28.00	1280.50	146.40	0.0721	544	690
450	523	37	4.24	29.68	1440.50	164.70	0.0641	580	739
500	581	37	4.47	31.29	1600.60	183.00	0.0577	614	786
560	651	61	3.69	33.21	1795.30	204.96	0.0516	652	840
630	732	61	3.91	35.19	2019.80	230.58	0.0458	695	899
710	825	61	4.15	37.35	2276.20	259.86	0.0407	739	961
800	930	61	4.40	39.60	2564.80	292.80	0.0361	785	1028
900	1046	91	3.83	42.13	2888.30	329.40	0.0321	833	1097
1000	1162	91	4.03	44.33	3209.30	366.00	0.0289	876	1161
1120	1301	91	4.27	46.97	3594.40	409.92	0.0258	923	1233

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL2

(Used in Finland)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
178-AL2	AAAC 178	178	19	3.45	17.3	487.6	57.73	0.1880	315	388
346-AL2	AAAC 346	346	37	3.45	24.2	952.8	112.41	0.0969	461	579
638-AL2	AAAC 638	638	61	3.65	32.9	1764.0	201.06	0.0527	645	829

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL2

(Used in Spain)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
28-AL2	D 28	27.8	7	2.25	6.75	76.0	9.05	1.1930	106	126
43-AL2	D 40	43.1	7	2.80	8.40	117.7	14.01	0.7704	137	164
55-AL2	D 56	54.6	7	3.15	9.45	148.9	17.73	0.6087	158	190
76-AL2	D 80	75.5	19	2.25	11.3	207.4	24.55	0.4420	191	231
117-AL2	D 110	117.0	19	2.80	14.0	321.2	38.02	0.2854	247	302
148-AL2	D 145	148.1	19	3.15	15.8	406.5	48.12	0.2255	284	348
188-AL2	D 180	188.1	19	3.55	17.8	516.3	59.24	0.1776	326	402
279-AL2	D 280	279.3	37	3.10	21.7	769.3	90.76	0.1200	408	510
381-AL2	D 400	381.0	61	2.82	25.4	1053.0	123.82	0.0882	486	613
454-AL2	D 450	454.5	61	3.08	27.7	1256.1	147.71	0.0740	536	680
547-AL2	D 550	547.3	61	3.38	30.4	1512.7	177.88	0.0614	594	759
638-AL2	D 630	638.3	61	3.65	32.9	1764.0	201.06	0.0527	645	830

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL2

(Used in Austria)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
24-AL3	25	24.25	7	2.10	6.30	66.2	7.15	1.3566	98	116
34-AL3	35	34.36	7	2.50	7.50	93.8	10.14	0.9572	120	144
49-AL3	50	49.48	7	3.00	9.00	135.1	14.60	0.6647	150	180
66-AL3	70	65.81	19	2.10	10.5	180.7	19.41	0.5026	177	214
93-AL3	95	93.27	19	2.50	12.5	256.0	27.51	0.3546	217	264
117-AL3	120	116.99	19	2.80	14.0	321.2	34.51	0.2827	248	303
147-AL3	150	147.12	37	2.25	15.8	405.3	43.40	0.2256	284	348
182-AL3	185	181.62	37	2.50	17.5	500.3	53.58	0.1827	320	395
243-AL3	240	242.54	61	2.25	20.3	670.3	71.55	0.1373	378	470
299-AL3	300	299.43	61	2.50	22.5	827.5	88.33	0.1112	426	533
400-AL3	400	400.14	61	2.89	26.0	1105.9	118.04	0.0832	502	634
452-AL3	450	451.54	61	3.07	27.6	1247.9	133.20	0.0737	537	681
500-AL3	500	499.83	61	3.23	29.1	1381.4	147.45	0.0666	568	723
626-AL3	625	626.20	91	2.96	32.6	1737.7	184.73	0.0534	640	823
802-AL3	800	802.09	91	3.35	36.9	2225.8	236.62	0.0417	730	948
1000-AL3	1000	999.71	91	3.74	41.1	2774.3	294.91	0.0291	868	1141

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Germany)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
16-AL3	16	15.9	7	1.70	5.10	43.4	4.69	2.0701	76	90
24-AL3	25	24.2	7	2.10	6.30	66.2	7.15	1.3566	98	116
34-AL3	35	34.4	7	2.50	7.50	93.8	10.14	0.9572	120	144
49-AL3	50	49.5	7	3.00	9.00	135.1	14.60	0.6647	150	180
48-AL3	50	48.3	19	1.80	9.00	132.7	14.26	0.6841	147	177
66-AL3	70	65.8	19	2.10	10.5	180.7	19.41	0.5026	177	214
93-AL3	95	93.3	19	2.50	12.5	256.0	27.51	0.3546	217	264
117-AL3	120	117.0	19	2.80	14.0	321.2	34.51	0.2827	248	303
147-AL3	150	147.1	37	2.25	15.8	405.3	43.40	0.2256	284	348
182-AL3	185	181.6	37	2.50	17.5	500.3	53.58	0.1827	320	395
243-AL3	240	242.5	61	2.25	20.3	670.3	71.55	0.1373	378	470
299-AL3	300	299.4	61	2.50	22.5	827.5	88.33	0.1112	426	533
400-AL3	400	400.1	61	2.89	26.0	1105.9	118.04	0.0832	502	634
500-AL3	500	499.8	61	3.23	29.1	1381.4	147.45	0.0666	568	723
626-AL3	625	626.2	91	2.96	32.6	1737.7	184.37	0.0534	640	823
802-AL3	800	802.1	91	3.35	36.9	2225.8	236.62	0.0417	730	948
1000-AL3	1000	999.7	91	3.74	41.1	2774.3	294.91	0.0334	816	1073

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Switzerland)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
16-AL3	16	15.9	7	1.70	5.10	43.4	4.69	2.0701	76	90
25-AL3	25	25.2	7	2.14	6.42	68.7	7.43	1.3064	100	119
35-AL3	35	34.9	7	2.52	7.56	95.3	10.30	0.9421	122	145
50-AL3	50	50.1	7	3.02	9.06	136.9	14.79	0.6660	150	180
50-AL3	50	50.0	19	1.83	9.15	137.2	14.74	0.6619	150	181
70-AL3	70	70.3	19	2.17	10.9	192.9	20.73	0.4707	184	223
95-AL3	95	94.8	19	2.52	12.6	260.2	27.96	0.3490	219	267
120-AL3	120	120.4	19	2.84	14.2	330.4	35.51	0.2748	253	308
150-AL3	150	149.7	37	2.27	15.9	412.5	44.17	0.2217	286	352
185-AL3	185	184.5	37	2.52	17.6	508.4	54.44	0.1799	323	399
239-AL3	240	239.4	37	2.87	20.1	659.4	70.61	0.1387	376	467
301-AL3	300	301.3	37	3.22	22.5	830.0	88.88	0.1102	428	536
299-AL3	300	299.4	61	2.50	22.5	827.5	88.33	0.1112	426	533
403-AL3	400	402.9	61	2.90	26.1	1113.6	118.86	0.0826	504	636
497-AL3	500	496.7	61	3.22	29.0	1372.9	146.54	0.0670	566	720
551-AL3	550	550.6	61	3.39	30.5	1521.6	162.42	0.0605	598	765
548-AL3	550	548.4	91	2.77	30.5	1521.8	161.78	0.0610	596	762
600-AL3	600	600.4	61	3.54	31.9	1659.3	177.11	0.0555	627	804
601-AL3	600	601.1	91	2.90	31.9	1668.0	177.32	0.0556	626	804
802-AL3	800	802.1	91	3.35	36.9	2225.8	236.62	0.0417	730	948

NOTE :
 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
 Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in United Kingdom)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
19-AL3	BOX	18.8	7	1.85	5.55	51.4	5.55	1.7480	84	99
24-AL3	ACACIA	23.8	7	2.08	6.24	64.9	7.02	1.3828	97	115
30-AL3	ALMOND	30.1	7	2.34	7.02	82.2	8.88	1.0926	111	133
35-AL3	CEDAR	35.5	7	2.54	7.62	96.8	10.46	0.9273	123	147
42-AL3	DEODAR	42.2	7	2.77	8.31	115.2	12.44	0.7797	136	163
48-AL3	FIR	47.8	7	2.95	8.85	130.6	14.11	0.6875	147	176
60-AL3	HAZEL	59.9	7	3.30	9.90	163.4	17.66	0.5494	167	202
72-AL3	PINE	71.6	7	3.61	10.8	195.6	21.14	0.4591	186	225
84-AL3	HOLLY	84.1	7	3.91	11.7	229.5	24.79	0.3913	205	248
90-AL3	WILLOW	89.7	7	4.04	12.1	245.0	26.47	0.3665	213	258
119-AL3	OAK	118.9	7	4.65	14.0	324.5	35.07	0.2767	251	306
151-AL3	MULBERRY	150.9	19	3.18	15.9	414.3	44.52	0.2192	288	354
181-AL3	ASH	180.7	19	3.48	17.4	496.1	53.31	0.1830	320	394
211-AL3	ELM	211.0	19	3.76	18.8	579.2	62.24	0.1568	350	433
239-AL3	POPLAR	239.4	37	2.87	20.1	659.4	70.61	0.1387	376	467
303-AL3	SYCAMORE	303.2	37	3.23	22.6	835.2	89.40	0.1095	430	538
362-AL3	UPAS	362.1	37	3.53	24.7	997.5	106.82	0.0917	475	598
479-AL3	YEW	479.0	37	4.06	28.4	1319.6	141.31	0.0693	555	706
498-AL3	TOTARA	498.1	37	4.14	29.0	1372.1	146.93	0.0666	567	722
587-AL3	RUBUS	586.9	61	3.50	31.5	1622.0	173.13	0.0567	620	794
659-AL3	SORBUS	659.4	61	3.71	33.4	1822.5	194.53	0.0505	659	849
821-AL3	ARAUCARIA	821.1	61	4.14	37.3	2269.4	242.24	0.0406	740	962
996-AL3	REDWOOD	996.2	61	4.56	41.0	2753.2	293.88	0.0334	816	1072

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL3

(Used in Italy)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
35-AL3	35/7	34.9	7	2.52	7.56	95.30	10.30	0.9421	122	145
49-AL3	50/7	49.5	7	3.00	9.00	135.10	14.60	0.6647	150	180
68-AL3	70/19	68.3	19	2.14	10.70	187.60	20.16	0.4840	181	219
95-AL3	95/19	94.8	19	2.52	12.60	260.20	27.96	0.3490	219	267
125-AL3	120/19	125.5	19	2.90	14.50	344.50	37.02	0.2636	259	316
147-AL3	150/37	147.1	37	2.25	15.80	405.30	43.40	0.2256	284	348
185-AL3	185/37	184.5	37	2.52	17.60	508.40	54.44	0.1799	323	399
196-AL3	200/37	196.4	37	2.60	18.20	541.20	57.95	0.1690	335	414
244-AL3	240/37	244.4	37	2.90	20.30	673.30	72.10	0.1358	380	473
304-AL3	300/61	304.2	61	2.52	22.70	840.80	89.75	0.1094	430	538
403-AL3	400/61	402.9	61	2.90	26.10	1113.60	118.86	0.0826	504	636

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL4

(Used in Belgium)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
34-AL4	35	34.4	7	2.50	7.50	93.8	11.17	0.9593	120	144
55-AL4	55	54.6	7	3.15	9.45	148.9	17.73	0.6042	158	190
93-AL4	95	93.3	19	2.50	12.5	256.0	30.31	0.3554	217	264
153-AL4	153	152.8	19	3.20	16.0	419.5	49.66	0.2169	290	356
210-AL4	210	210.3	37	2.69	18.8	579.3	68.34	0.1582	348	431
228-AL4	228	227.8	37	2.80	19.6	627.6	74.04	0.1460	365	453
248-AL4	248	247.8	37	2.92	20.4	682.6	80.53	0.1342	383	476
298-AL4	298	297.6	37	3.20	22.4	819.8	96.71	0.1118	425	531
313-AL4	313	312.6	37	3.28	23.0	861.3	101.61	0.1064	437	547
366-AL4	366	366.2	37	3.55	24.9	1008.9	115.36	0.0908	478	602
446-AL4	446	445.7	61	3.05	27.5	1231.7	144.84	0.0749	532	675
475-AL4	475	475.4	61	3.15	28.4	1313.8	154.50	0.0702	552	701
570-AL4	570	570.2	61	3.45	31.1	1576.0	185.33	0.0585	609	780
621-AL4	621	620.9	61	3.60	32.4	1716.0	195.58	0.0537	638	820
926-AL4	926	926.3	91	3.60	39.6	2570.4	291.77	0.0362	784	1027
117-AL4	117	117.0	19	2.80	14.0	321.2	38.02	0.2833	248	303
148-AL4	148	148.1	19	3.15	15.8	406.5	48.12	0.2239	285	349
182-AL4	182	181.6	37	2.50	17.5	500.3	59.03	0.1831	320	395
198-AL4	198	198.0	37	2.61	18.3	545.3	64.34	0.1680	337	416
265-AL4	265	265.0	37	3.02	21.1	730.1	86.14	0.1255	398	495
288-AL4	288	288.3	37	3.15	22.1	794.3	93.71	0.1154	417	521
318-AL4	318	318.4	37	3.31	23.2	877.1	103.47	0.1045	441	553
709-AL4	709	709.2	91	3.15	34.7	1968.0	230.48	0.0472	684	884
851-AL4	851	850.7	91	3.45	38.0	2360.7	276.47	0.0394	751	979

NOTE :
Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation.
Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM ALLOY CONDUCTOR (AAAC) - EN 50182-Type-AL4

(Used in France)

Code	Old code	Sectional Area	Stranding		Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Aluminium Wires	Individual wire diameter					@ 75°C	@ 85°C
			(mm ²)	(No.)					(mm)	(mm)
22-AL4	22	22.0	7	2.00	6.00	60.0	7.15	1.4989	92	109
34-AL4	34	34.4	7	2.50	7.50	93.8	11.17	0.9593	120	144
55-AL4	55	54.6	7	3.15	9.45	148.9	17.73	0.6042	158	190
76-AL4	76	75.5	19	2.25	11.3	207.4	24.55	0.4388	192	232
117-AL4	117	117.0	19	2.80	14.0	321.2	38.02	0.2833	248	303
148-AL4	148	148.1	19	3.15	15.8	406.5	48.12	0.2239	285	349
182-AL4	182	181.6	37	2.50	17.5	500.3	59.03	0.1831	320	395
228-AL4	228	227.8	37	2.80	19.6	627.6	74.04	0.1460	365	453
288-AL4	288	288.3	37	3.15	22.1	794.3	93.71	0.1154	417	521
366-AL4	366	366.2	37	3.55	24.9	1008.9	115.36	0.0908	478	602
570-AL4	570	570.2	61	3.45	31.1	1576.0	185.33	0.0585	609	780
851-AL4	851	850.7	91	3.45	38.0	2360.7	276.47	0.0394	751	979
1144-AL4	1144	1143.5	91	4.00	44.0	3173.4	360.22	0.0293	870	1152
1596-AL4	1600	1595.9	127	4.00	52.0	4427.5	502.72	0.0210	1010	1367

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmissivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation. Customized conductor sizes based on customer's requirement can also be designed.