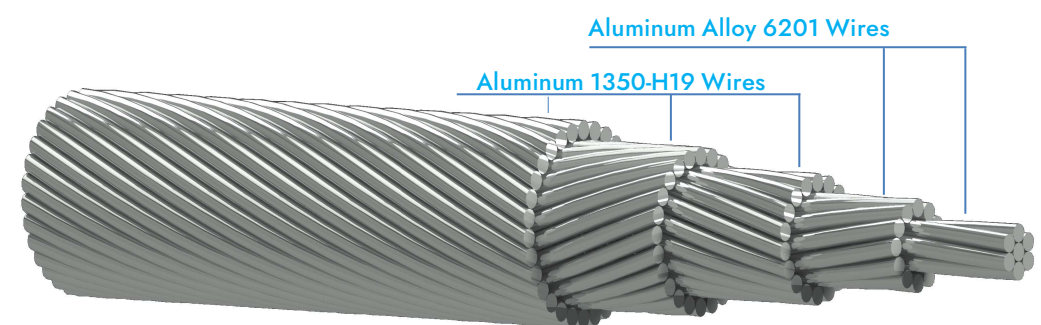
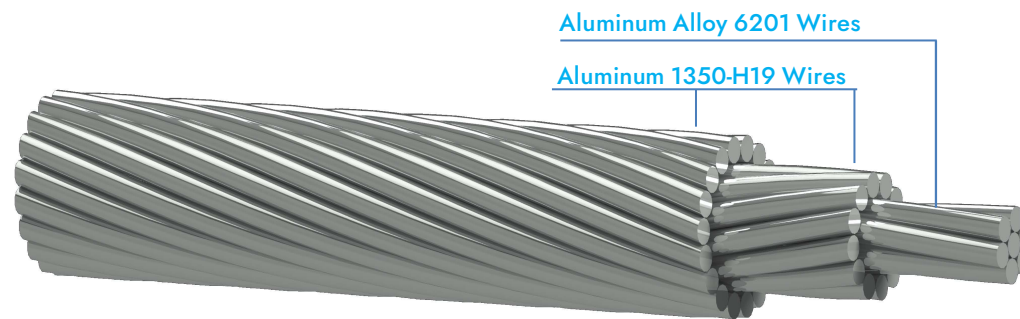


ALL ALUMINUM CONDUCTOR ALLOY REINFORCED (ACAR)

All Aluminium Conductors Alloy reinforced (ACAR): is formed by concentrically stranded Wires of Aluminium on high strength Aluminium-Magnesium-Silicon (AlMgSi) Alloy core. ACAR has got a better mechanical and electrical properties as compared to an equivalent conductors of ACSR, AAC or AAAC. A very good balance between the mechanical and electrical properties therefore makes ACAR the best choice where the ampacity, strength, and light weight are the main consideration of the line design. These conductors are extensively used in overhead transmission and distribution lines.

Construction

Aluminum 1350-H19 Wires, concentrically stranded over a central wire/core of Aluminum alloy 6201.



Features:

- Improved strength to weight ratio
- Improved mechanical properties
- Improved electrical properties
- Excellent resistance to corrosion Specifications

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

ALL ALUMINUM CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
3000000	1520.00	72	19	4.613	50.74	3343.0	878.0	4221.0	270.0	0.01966	1029	1387
2750000	1393.00	72	19	4.415	48.57	3063.0	808.0	3871.0	247.0	0.02147	992	1329
2500000	1267.00	72	19	4.209	46.30	2784.0	731.0	3515.0	225.0	0.02362	951	1267
2493000	1263.00	72	19	4.204	46.24	2785.0	731.0	3515.0	224.0	0.02367	950	1265
2250000	1140.00	72	19	3.993	43.92	2506.0	658.0	3164.0	202.0	0.02624	907	1200
2000000	1013.00	72	19	3.764	41.40	2206.0	579.0	2785.0	182.0	0.02925	861	1131
3000 000	1520.00	63	28	4.613	50.74	2926.0	1290.0	4216.0	287.0	0.01995	1024	1380
2750000	1393.00	63	28	4.415	48.57	2680.0	1180.0	3860.0	263.0	0.02178	987	1323
2500000	1267.00	63	28	4.209	46.30	2436.0	1080.0	3516.0	239.0	0.02397	946	1260
2250000	1140.00	63	28	3.993	43.92	2193.0	970.0	3163.0	215.0	0.02663	902	1193
2000000	1013.00	63	28	3.764	41.40	1930.0	853.0	2783.0	193.0	0.02968	856	1125
3000000	1520.00	54	37	4.613	50.74	2508.0	1710.0	4218.0	308.0	0.02025	1019	1374
2750000	1393.00	54	37	4.415	48.57	2297.0	1570.0	3867.0	282.0	0.02211	982	1316
2500000	1267.00	54	37	4.209	46.30	2088.0	1420.0	3508.0	257.0	0.02432	941	1254
2493000	1263.00	54	37	4.204	46.24	2089.0	1423.0	3512.0	256.0	0.02438	940	1252
2250000	1140.00	54	37	3.993	43.92	1879.0	1280.0	3159.0	231.0	0.02703	897	1187
2000000	1013.00	54	37	3.764	41.40	1654.0	1130.0	2784.0	207.0	0.03012	851	1119
2000000	1013.00	54	7	4.600	41.40	2470.0	318.0	2788.0	169.0	0.02882	866	1138
1900000	963.00	54	7	4.483	40.35	2346.0	303.0	2649.0	160.0	0.03034	844	1107
1800000	912.00	54	7	4.364	39.28	2223.0	287.0	2510.0	152.0	0.03202	822	1075
1750000	887.00	54	7	4.303	38.73	2161.0	288.0	2439.0	148.0	0.03293	811	1058
1700000	861.00	54	7	4.239	38.15	2098.0	271.0	2369.0	143.0	0.03393	799	1041
1600000	811.00	54	7	4.115	37.04	1976.0	255.0	2231.0	135.0	0.03601	775	1007
1500000	760.00	54	7	3.983	35.85	1852.0	239.0	2090.0	127.0	0.03843	750	971
1400000	709.00	54	7	3.848	34.63	1729.0	223.0	1952.0	118.0	0.04118	723	934
1361500	690.00	54	7	3.795	34.16	1685.0	217.0	1902.0	117.0	0.04234	713	919
1300000	659.00	54	7	3.708	33.37	1605.0	207.0	1812.0	112.0	0.04435	696	895
1277000	647.00	54	7	3.675	33.08	1580.0	204.0	1784.0	110.0	0.04515	689	886

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
1250000	633.00	54	7	3.635	32.72	1542.0	199.0	1741.0	107.0	0.04615	681	875
1200000	608.00	54	7	3.564	32.08	1482.0	191.0	1673.0	104.0	0.04800	667	855
1100000	557.00	54	7	3.411	30.70	1358.0	176.0	1534.0	95.9	0.05241	636	813
1000000	507.00	54	7	3.251	29.26	1234.0	159.0	1393.0	87.9	0.05769	604	769
2338000	1185.00	48	13	4.973	44.76	2597.0	700.0	3297.0	211.0	0.02526	923	1224
2000000	1013.00	48	13	4.600	41.40	2196.0	592.0	2788.0	181.0	0.02923	861	1132
1900000	963.00	48	13	4.483	40.35	2086.0	562.0	2648.0	172.0	0.03078	840	1101
1800000	912.00	48	13	4.364	39.28	1976.0	532.0	2508.0	163.0	0.03248	818	1069
1750000	887.00	48	13	4.303	38.73	1921.0	516.0	2437.0	158.0	0.03341	806	1052
1703000	863.00	48	13	4.244	38.20	1873.0	505.0	2378.0	154.0	0.03434	795	1036
1700000	861.00	48	13	4.239	38.15	1865.0	502.0	2367.0	153.0	0.03442	794	1035
1600000	811.00	48	13	4.115	37.04	1757.0	473.0	2230.0	145.0	0.03653	771	1001
1500000	760.00	48	13	3.983	35.85	1646.0	443.0	2089.0	135.0	0.03899	745	965
1400000	709.00	48	13	3.848	34.63	1536.0	414.0	1950.0	126.0	0.04177	719	928
1300000	659.00	48	13	3.708	33.37	1427.0	384.0	1811.0	119.0	0.04499	692	890
1250000	633.00	48	13	3.635	32.72	1371.0	369.0	1740.0	114.0	0.04681	677	870
1200000	608.00	48	13	3.564	32.08	1318.0	355.0	1673.0	110.0	0.04869	663	850
1100000	557.00	48	13	3.411	30.70	1207.0	326.0	1533.0	102.0	0.05316	633	808
1000000	507.00	48	13	3.251	29.26	1097.0	296.0	1393.0	94.1	0.05852	600	764
2338000	1185.00	42	19	4.973	44.76	2273.0	1022.0	3295.0	229.0	0.02563	918	1217
2000000	1013.00	42	19	4.600	41.40	1921.0	865.0	2786.0	196.0	0.02966	856	1126
1933000	979.00	42	19	4.522	40.70	1861.0	837.0	2698.0	189.0	0.03069	842	1105
1900000	963.00	42	19	4.483	40.35	1825.0	821.0	2646.0	186.0	0.03123	835	1095
1800000	912.00	42	19	4.364	39.28	1729.0	778.0	2507.0	176.0	0.03295	813	1063
1798000	911.00	42	19	4.361	39.25	1731.0	779.0	2509.0	176.0	0.03300	812	1062
1750000	887.00	42	19	4.303	38.73	1681.0	757.0	2438.0	171.0	0.03389	802	1046
1700000	861.00	42	19	4.239	38.15	1632.0	735.0	2367.0	166.0	0.03493	790	1029

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm ²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
1600000	811.00	42	19	4.115	37.04	1537.0	692.0	2229.0	157.0	0.03706	766	996
1534400	777.00	42	19	4.028	36.25	1477.0	664.0	2141.0	150.0	0.03868	750	972
1500000	760.00	42	19	3.983	35.85	1440.0	649.0	2089.0	147.0	0.03956	741	960
1400000	709.00	42	19	3.848	34.63	1344.0	605.0	1950.0	137.0	0.04238	715	923
1300000	659.00	42	19	3.708	33.37	1249.0	562.0	1811.0	129.0	0.04564	688	885
1277000	647.00	42	19	3.675	33.08	1229.0	553.0	1782.0	126.0	0.04647	681	876
1250000	633.00	42	19	3.635	32.72	1199.0	540.0	1739.0	124.0	0.04750	673	865
1200000	608.00	42	19	3.564	32.08	1153.0	519.0	1672.0	119.0	0.04941	659	845
1100000	557.00	42	19	3.411	30.70	1056.0	475.0	1531.0	110.0	0.05394	629	803
1000000	507.00	42	19	3.251	29.26	960.0	431.0	1391.0	102.0	0.05938	597	760
2000000	1013.00	33	28	4.600	41.40	1509.0	1274.0	2783.0	212.0	0.03032	849	1116
1900000	963.00	33	28	4.483	40.35	1434.0	1210.0	2644.0	201.0	0.03193	828	1085
1800000	912.00	33	28	4.364	39.28	1358.0	1147.0	2505.0	191.0	0.03369	806	1054
1750000	887.00	33	28	4.303	38.73	1321.0	1115.0	2436.0	186.0	0.03465	795	1037
1700000	861.00	33	28	4.239	38.15	1282.0	1082.0	2364.0	180.0	0.03571	783	1020
1600000	811.00	33	28	4.115	37.04	1208.0	1020.0	2228.0	160.0	0.03789	759	987
1500000	760.00	33	28	3.983	35.85	1131.0	955.0	2086.0	159.0	0.04045	734	951
1400000	709.00	33	28	3.848	34.63	1056.0	892.0	1948.0	148.0	0.04333	708	915
1300000	659.00	33	28	3.708	33.37	981.0	828.0	1809.0	139.0	0.04667	681	877
1250000	633.00	33	28	3.635	32.72	942.0	796.0	1738.0	133.0	0.04856	667	857
1200000	608.00	33	28	3.564	32.08	906.0	765.0	1671.0	128.0	0.05052	653	838
1100000	557.00	33	28	3.411	30.70	830.0	701.0	1531.0	119.0	0.05515	623	796
1000000	507.00	33	28	3.251	29.26	754.0	657.0	1391.0	110.0	0.06071	591	753
1300000	659.00	33	4	4.760	33.32	1616.0	195.0	1811.0	109.0	0.04432	696	895
1250000	633.00	33	4	4.669	32.68	1555.0	187.0	1742.0	105.0	0.04607	682	875
1200000	608.00	33	4	4.575	32.03	1493.0	180.0	1673.0	101.0	0.04798	667	855
1100000	557.00	33	4	4.379	30.65	1367.0	165.0	1532.0	92.3	0.05237	636	813
1000000	507.00	33	4	4.176	29.23	1244.0	150.0	1394.0	83.9	0.05759	604	769

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
950000	481.00	33	4	4.069	28.48	1181.0	142.0	1323.0	79.7	0.06066	588	746
900000	456.00	33	4	3.962	27.73	1120.0	135.0	1255.0	75.5	0.06398	571	723
850000	431.00	33	4	3.851	26.96	1058.0	127.0	1185.0	71.3	0.06772	553	699
800000	405.00	33	4	3.734	26.14	994.0	120.0	1114.0	68.2	0.07203	534	674
750000	380.00	33	4	3.617	25.32	933.0	112.0	1045.0	64.0	0.07676	516	649
700000	355.00	33	4	3.493	24.45	870.0	105.0	975.0	60.7	0.08231	496	623
650000	329.00	33	4	3.366	23.56	808.0	97.4	905.0	56.3	0.08864	476	596
600000	304.00	33	4	3.233	22.63	746.0	89.9	835.0	52.4	0.09608	455	568
550000	279.00	33	4	3.096	21.67	684.0	82.6	767.0	48.1	0.10477	433	539
500000	253.00	33	4	2.951	20.66	621.0	74.9	696.0	44.4	0.11532	410	509
1300000	659.00	30	7	4.760	33.32	1469.0	341.0	1810.0	118.0	0.04485	692	891
1250000	633.00	30	7	4.669	32.68	1413.0	328.0	1741.0	114.0	0.04661	678	871
1200000	608.00	30	7	4.575	32.03	1357.0	315.0	1672.0	109.0	0.04855	664	851
1198000	607.00	30	7	4.570	31.99	1358.0	315.0	1673.0	109.0	0.04866	663	850
1172000	594.00	30	7	4.521	31.65	1329.0	308.0	1637.0	107.0	0.04972	655	839
1109000	562.00	30	7	4.397	30.78	1257.0	292.0	1549.0	101.0	0.05256	636	813
1100000	557.00	30	7	4.379	30.65	1244.0	289.0	1533.0	100.0	0.05299	633	809
1024500	519.00	30	7	4.227	29.59	1161.0	269.0	1431.0	93.2	0.05687	610	776
1000000	507.00	30	7	4.176	29.23	1131.0	262.0	1393.0	91.0	0.05827	601	765
950000	481.00	30	7	4.069	28.48	1074.0	249.0	1323.0	86.4	0.06137	585	742
900000	456.00	30	7	3.962	27.73	1018.0	236.0	1254.0	81.9	0.06473	568	720
853700	433.00	30	7	3.858	27.01	968.0	225.0	1192.0	77.6	0.06827	551	697
850000	431.00	30	7	3.851	26.96	962.0	223.0	1185.0	77.3	0.06852	550	696
800000	405.00	30	7	3.734	26.14	904.0	210.0	1114.0	73.8	0.07288	532	671
750000	380.00	30	7	3.617	25.32	848.0	197.0	1045.0	69.2	0.07767	513	646
700000	355.00	30	7	3.493	24.45	791.0	184.0	975.0	65.5	0.08329	494	620
650000	329.00	30	7	3.366	23.56	735.0	171.0	906.0	60.8	0.08969	473	593
600000	304.00	30	7	3.233	22.63	678.0	158.0	836.0	56.8	0.09722	452	565

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
550000	279.00	30	7	3.096	21.67	622.0	144.0	766.0	52.1	0.10601	431	537
500000	253.00	30	7	4.120	28.84	565.0	131.0	696.0	48.0	0.05986	593	753
1300000	659.00	24	13	4.760	33.32	1176.0	633.0	1809.0	131.0	0.04594	686	882
1250000	633.00	24	13	4.669	32.68	1131.0	610.0	1741.0	126.0	0.04775	672	863
1200000	608.00	24	13	4.575	32.03	1086.0	585.0	1671.0	121.0	0.04973	657	843
1198000	607.00	24	13	4.570	31.99	1086.0	585.0	1672.0	120.0	0.04984	656	842
1109000	562.00	24	13	4.397	30.78	1006.0	542.0	1547.0	111.0	0.05384	630	805
1100000	557.00	24	13	4.379	30.65	995.0	536.0	1531.0	111.0	0.05428	627	801
1080600	548.00	24	13	4.341	30.39	980.0	528.0	1508.0	109.0	0.05523	621	793
1024500	519.00	24	13	4.227	29.59	929.0	500.0	1430.0	103.0	0.05825	603	769
1000000	507.00	24	13	4.176	29.23	905.0	488.0	1393.0	101.0	0.05968	595	758
950000	481.00	24	13	4.069	28.48	858.0	463.0	1321.0	95.4	0.06286	579	735
927200	470.00	24	13	4.021	28.15	841.0	453.0	1294.0	93.2	0.06437	571	725
900000	456.00	24	13	3.962	27.73	814.0	439.0	1253.0	90.5	0.06631	562	712
853700	433.00	24	13	3.858	27.01	774.0	417.0	1191.0	85.8	0.06993	546	690
850000	431.00	24	13	3.851	26.96	769.0	415.0	1184.0	85.4	0.07018	545	689
800000	405.00	24	13	3.734	26.14	723.0	390.0	1113.0	81.2	0.07465	526	664
750000	380.00	24	13	3.617	25.32	679.0	366.0	1045.0	76.2	0.07956	508	640
700000	355.00	24	13	3.493	24.45	632.0	341.0	973.0	71.8	0.08531	489	614
650000	329.00	24	13	3.366	23.56	588.0	317.0	905.0	66.6	0.09187	469	587
600000	304.00	24	13	3.233	22.63	542.0	292.0	834.0	62.8	0.09958	448	560
550000	279.00	24	13	3.096	21.67	497.0	268.0	765.0	57.6	0.10859	426	531
500000	253.00	24	13	2.951	20.66	452.0	244.0	696.0	52.9	0.11952	404	502
1300000	659.00	18	19	4.760	33.32	882.0	926.0	1808.0	146.0	0.04708	679	873
1250000	633.00	18	19	4.669	32.68	848.0	890.0	1738.0	140.0	0.04893	665	854
1200000	608.00	18	19	4.575	32.03	814.0	855.0	1669.0	135.0	0.05096	651	834
1172000	594.00	18	19	4.521	31.65	797.0	837.0	1634.0	131.0	0.05219	642	823
1100000	557.00	18	19	4.379	30.65	746.0	784.0	1530.0	123.0	0.05563	621	793

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
1080600	548.00	18	19	4.341	30.39	735.0	771.0	1506.0	121.0	0.05661	615	785
1000000	507.00	18	19	4.176	29.23	678.0	713.0	1391.0	112.0	0.06117	589	750
950000	481.00	18	19	4.069	28.48	644.0	677.0	1321.0	106.0	0.06443	573	728
900000	456.00	18	19	3.962	27.73	611.0	642.0	1253.0	101.0	0.06795	556	705
850000	431.00	18	19	3.851	26.96	577.0	606.0	1183.0	95.3	0.07193	539	682
800000	405.00	18	19	3.734	26.14	543.0	570.0	1113.0	90.3	0.07651	521	658
750000	380.00	18	19	3.617	25.32	509.0	534.0	1043.0	84.7	0.08154	503	633
739800	375.00	18	19	3.592	25.14	503.0	528.0	1031.0	83.5	0.08268	499	628
700000	355.00	18	19	3.493	24.45	475.0	498.0	973.0	79.5	0.08743	483	607
650000	329.00	18	19	3.366	23.56	440.0	463.0	903.0	73.8	0.09415	464	581
649500	329.00	18	19	3.365	23.56	442.0	464.0	905.0	73.8	0.09421	463	581
600000	304.00	18	19	3.233	22.63	406.0	427.0	833.0	70.1	0.10206	443	554
550000	279.00	18	19	3.096	21.67	373.0	392.0	765.0	64.3	0.11129	422	526
500000	253.00	18	19	4.120	28.84	339.0	356.0	695.0	58.8	0.06284	581	738
600000	304.00	15	4	4.513	22.57	661.0	175.0	836.0	55.4	0.09746	452	564
587200	298.00	15	4	4.465	22.33	648.0	172.0	820.0	54.3	0.09957	446	557
550000	279.00	15	4	4.321	21.61	606.0	161.0	767.0	50.8	0.10632	430	536
503600	255.00	15	4	4.135	20.68	556.0	147.0	703.0	46.5	0.11610	409	508
500000	253.00	15	4	4.120	20.60	550.0	146.0	696.0	46.2	0.11694	407	506
450000	228.00	15	4	3.909	19.55	496.0	131.0	627.0	41.6	0.12991	383	475
400000	203.00	15	4	3.685	18.43	440.0	117.0	557.0	37.5	0.14618	358	443
350000	177.00	15	4	3.447	17.24	385.0	102.0	487.0	33.2	0.16707	332	408
300000	152.00	15	4	3.193	15.97	331.0	87.7	418.0	28.9	0.19470	304	372
250000	127.00	15	4	2.913	14.57	225.0	73.0	348.0	24.4	0.23393	273	333
653100	331.00	12	7	4.709	23.55	577.0	335.0	911.0	68.5	0.09164	469	588
600000	304.00	12	7	4.513	22.57	528.0	307.0	835.0	62.9	0.09977	447	559
550000	279.00	12	7	4.321	21.61	483.0	281.0	764.0	57.6	0.10884	426	531
500000	253.00	12	7	4.120	20.60	440.0	256.0	696.0	52.4	0.11971	403	501

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 CONDUCTOR ALLOY REINFORCED (ACAR) - ASTM B 524

Conductor size	Sectional Area	Stranding			Diameter of Complete Conductor	Mass Per Unit Length			Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter		1350 -AL	6201-ALLOY	Total			@ 75°C	@ 85°C
		Aluminum	Al.Alloy									
(cmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
450000	228.00	12	7	3.909	19.55	396.0	230.0	626.0	47.2	0.13299	380	470
400000	203.00	12	7	3.685	18.43	352.0	204.0	556.0	42.4	0.14965	355	438
350000	177.00	12	7	3.447	17.24	308.0	179.0	487.0	37.4	0.17102	328	404
300000	152.00	12	7	3.193	15.97	265.0	153.0	418.0	32.8	0.19932	300	369
250000	127.00	12	7	2.913	14.57	220.0	128.0	348.0	27.6	0.23947	270	330
246900	125.00	4	3	4.770	14.31	197.0	147.0	344.0	26.9	0.24462	266	325
211600	107.00	4	3	4.417	13.25	168.0	126.0	294.0	23.0	0.28528	244	296
195700	99.10	4	3	4.247	12.74	156.0	116.0	272.0	21.3	0.30858	233	283
167800	85.00	4	3	3.932	11.80	134.0	99.7	234.0	18.3	0.36000	212	257
155400	78.70	4	3	3.785	11.36	124.0	92.4	216.0	17.1	0.38851	203	246
133100	67.40	4	3	3.503	10.51	106.0	79.1	185.0	14.7	0.45358	185	223
123300	62.50	4	3	3.371	10.11	98.2	73.3	171.0	13.7	0.48979	177	213
105600	53.50	4	3	3.119	9.36	84.1	62.8	147.0	12.0	0.57214	161	194
77470	39.30	4	3	2.672	8.02	61.7	46.1	108.0	8.9	0.77958	134	161
66360	33.60	4	3	2.474	7.42	52.9	39.5	92.4	7.8	0.90935	123	146
48690	24.70	4	3	2.118	6.35	38.8	29.0	67.8	5.8	1.24073	102	121
41740	21.20	4	3	1.961	5.88	33.2	24.8	58.0	5.0	1.44736	93	110
30580	15.50	4	3	1.679	5.04	24.4	18.2	42.6	3.7	1.97437	77	91

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 CONDUCTOR ALLOY REINFORCED (ACAR) - IEC 61089 - TYPE-A1/A2

Code No	Sectional Area	Aluminium Wires Area	Aluminium Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter					@ 75°C	@ 85°C
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17.03	9.73	7.30	4	3	1.76	5.28	46.6	3.85	1.7896	82	97
25	26.61	15.21	11.40	4	3	2.20	6.60	72.8	5.93	1.1453	107	127
40	42.49	24.28	18.21	4	3	2.78	8.34	116.5	9.25	0.7158	141	169
63	66.96	38.27	28.70	4	3	3.49	10.47	183.5	14.38	0.4545	185	223
100	106.44	60.82	45.62	4	3	4.40	13.20	291.2	22.52	0.2863	243	296
125	131.63	83.14	48.50	12	7	2.97	14.85	362.7	27.79	0.2302	276	338
160	168.47	106.40	62.07	12	7	3.36	16.80	464.2	35.04	0.1798	319	392
200	210.97	133.24	77.73	12	7	3.76	18.80	580.3	43.13	0.1439	363	449
250	264.49	167.05	97.44	12	7	4.21	21.05	725.3	53.92	0.1151	412	513
250	268.56	130.65	137.91	18	19	3.04	21.28	742.2	60.39	0.1154	413	515
315	324.18	262.85	61.33	30	7	3.34	23.38	829.6	60.52	0.0916	468	586
315	339.90	165.35	174.54	18	19	3.42	23.94	935.1	76.09	0.0916	471	591
400	410.84	333.11	77.73	30	7	3.76	26.32	1133.5	75.19	0.0721	535	676
400	430.74	209.55	221.19	18	19	3.85	26.95	1187.5	95.58	0.0721	538	681
450	462.63	375.11	87.53	30	7	3.99	27.93	1275.2	84.59	0.0641	571	724
450	483.74	235.33	248.41	18	19	4.08	28.56	1335.9	107.52	0.0641	574	730
500	515.06	417.62	97.44	30	7	4.21	29.47	1416.9	93.98	0.0577	605	770
500	539.82	262.61	277.20	18	19	4.31	30.17	1484.3	119.47	0.0577	609	777
560	575.46	466.59	108.87	30	7	4.45	31.15	1586.9	105.26	0.0515	643	823
560	570.24	504.80	65.44	54	7	3.45	31.05	1571.9	101.54	0.0516	642	821
630	659.43	454.03	205.40	42	19	3.71	33.39	1820.0	130.25	0.0458	686	883
630	688.18	270.76	417.42	24	37	3.79	34.11	1897.5	160.19	0.0458	690	890
710	743.73	512.07	231.65	42	19	3.94	35.46	2051.2	146.78	0.0407	730	945
710	774.24	304.62	469.62	24	37	4.02	36.18	2138.4	180.53	0.0407	734	952
800	837.09	576.36	260.73	42	19	4.18	37.62	2311.2	165.39	0.0361	777	1011
800	873.53	343.68	529.84	24	37	4.27	38.43	2409.5	203.41	0.0361	780	1018
900	940.22	647.36	292.85	42	19	4.43	39.87	2600.1	186.06	0.0321	824	1079
900	957.40	568.13	389.27	54	37	3.66	40.26	2638.4	199.54	0.0321	825	1082
1000	1032.05	816.56	215.48	72	19	3.80	41.80	2849.1	190.94	0.0289	866	1139
1000	1059.38	628.65	430.74	54	37	3.85	42.35	2931.6	221.71	0.0289	868	1144
1120	1155.01	913.85	241.16	72	19	4.02	44.22	3191.0	213.85	0.0258	914	1210
1120	1189.74	706.00	483.74	54	37	4.08	44.88	3283.4	248.32	0.0258	916	1216
1250	1290.95	1021.41	269.54	72	19	4.25	46.75	3561.4	238.68	0.0231	961	1281
1250	1327.66	787.84	539.82	54	37	4.31	47.41	3664.5	277.14	0.0231	963	1287
1400	1447.30	1145.11	302.18	72	19	4.50	49.50	3988.8	267.32	0.0207	1007	1353

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 CONDUCTOR ALLOY REINFORCED (ACAR) - IEC 61089 - TYPE-A1/A3

Code No	Sectional Area	Aluminium Wires Area	Aluminium Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter					@ 75°C	@ 85°C
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17.03	9.73	7.30	4	3	1.76	5.28	46.8	4.07	1.7896	82	97
25	26.85	15.34	11.51	4	3	2.21	6.63	73.1	6.29	1.1453	107	127
40	42.80	24.45	18.34	4	3	2.79	8.37	117.0	9.82	0.7158	141	169
63	67.35	38.48	28.86	4	3	3.50	10.50	184.3	14.80	0.4545	185	223
100	106.92	61.10	45.82	4	3	4.41	13.23	292.5	23.49	0.2863	243	296
125	132.52	83.70	48.82	12	7	2.98	14.90	364.1	29.29	0.2302	276	338
160	169.47	107.04	62.44	12	7	3.37	16.85	466.0	36.95	0.1798	319	392
200	212.09	133.95	78.14	12	7	3.77	18.85	582.5	44.78	0.1439	363	449
250	264.49	167.05	97.44	12	7	4.21	21.05	728.1	55.98	0.1151	412	513
250	270.33	131.51	138.82	18	19	3.05	21.35	746.0	64.67	0.1154	413	515
315	324.18	262.85	61.33	30	7	3.34	23.38	894.4	62.40	0.0916	468	586
315	341.89	166.32	175.56	18	19	3.43	24.01	940.0	81.48	0.0916	471	591
400	413.02	334.88	78.14	30	7	3.77	26.39	1135.8	76.82	0.0721	535	676
400	432.98	210.64	222.34	18	19	3.86	27.02	1193.7	100.30	0.0721	539	681
450	462.63	375.11	87.53	30	7	3.99	27.93	1277.8	86.42	0.0641	571	724
450	488.50	237.65	250.85	18	19	4.10	28.70	1342.9	112.84	0.0641	575	731
500	515.06	417.62	97.44	30	7	4.21	29.47	1419.8	96.03	0.0577	605	770
500	542.33	263.83	278.49	18	19	4.32	30.24	1492.1	125.38	0.0577	609	777
560	578.05	468.69	109.36	30	7	4.46	31.22	1590.1	107.55	0.0515	643	823
560	570.24	504.80	65.44	54	7	3.45	31.05	1573.9	103.53	0.0516	642	821
630	662.99	456.48	206.50	42	19	3.72	33.48	1826.0	134.59	0.0458	687	884
630	691.81	272.19	419.62	24	37	3.80	34.20	1909.0	169.14	0.0458	690	890
710	747.51	514.68	232.83	42	19	3.95	35.55	2057.8	151.68	0.0407	731	945
710	778.09	306.13	471.96	24	37	4.03	36.27	2151.4	190.61	0.0407	734	952
800	841.10	579.12	261.98	42	19	4.19	37.71	2318.7	170.90	0.0361	777	1011
800	877.62	345.29	532.33	24	37	4.28	38.52	2424.2	214.78	0.0361	781	1018
900	944.47	650.29	294.18	42	19	4.44	39.96	2608.5	192.27	0.0321	824	1079
900	957.40	568.13	389.27	54	37	3.66	40.26	2649.5	207.79	0.0321	825	1082
1000	1032.05	816.56	215.48	72	19	3.80	41.80	2855.4	195.47	0.0289	866	1139
1000	1064.90	631.92	432.98	54	37	3.86	42.46	2943.9	230.88	0.0289	869	1145
1120	1155.01	913.85	241.16	72	19	4.02	44.22	3198.1	218.92	0.0258	914	1210
1120	1195.58	709.47	486.12	54	37	4.09	44.99	3297.2	258.58	0.0258	916	1216
1250	1290.95	1021.41	269.54	72	19	4.25	46.75	3569.3	244.33	0.0231	961	1281
1250	1333.83	791.50	542.33	54	37	4.32	47.52	3679.9	288.60	0.0231	963	1287
1400	1447.30	1145.11	302.18	72	19	4.50	49.50	3997.6	273.65	0.0207	1007	1353

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 CONDUCTOR ALLOY REINFORCED (ACAR) - CAN/CSA-C61089-11 - TYPE-A1/A2

Designation	Sectional Area	Aluminium Wires Area	Al.Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter					@ 75°C	@ 85°C
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
10-A1/A2-4/3	10.62	6.07	4.55	4	3	1.39	4.17	29.0	2.53	2.8630	62	72
16-A1/A2-4/3	17.03	9.73	7.30	4	3	1.76	5.28	46.4	4.00	1.7900	82	97
25-A1/A2-4/3	26.61	15.21	11.40	4	3	2.20	6.60	72.5	6.17	1.1450	107	127
40-A1/A2-4/3	42.49	24.28	18.21	4	3	2.78	8.34	116.0	9.50	0.7159	141	169
63-A1/A2-4/3	66.58	38.05	28.53	4	3	3.48	10.44	182.6	14.80	0.4545	185	223
100-A1/A2-4/3	105.95	60.55	45.41	4	3	4.39	13.17	289.9	23.20	0.2863	243	295
125-A1/A2-4/3	132.54	75.74	56.80	4	3	4.91	14.73	362.4	28.90	0.2291	277	338
160-A1/A2-12/7	168.47	106.40	62.07	12	7	3.36	16.80	462.3	36.00	0.1798	319	392
250-A1/A2-12/7	263.23	166.25	96.98	12	7	4.20	16.80	722.4	55.40	0.1151	398	490
250-A1/A2-18/19	268.56	130.65	137.91	18	19	3.04	16.80	738.5	62.00	0.1154	398	490
315-A1/A2-30/7	322.24	261.28	60.96	30	7	3.33	16.80	891.0	62.20	0.0916	445	547
315-A1/A2-18/19	337.91	164.39	173.52	18	19	3.41	16.80	930.5	78.20	0.0916	446	549
400-A1/A2-30/7	410.84	333.11	77.73	30	7	3.76	16.80	1131.0	77.40	0.0721	501	616
400-A1/A2-18/19	428.50	208.46	220.04	18	19	3.84	16.80	1182.0	98.20	0.0721	502	618
450-A1/A2-30/7	460.32	373.23	87.09	30	7	3.98	16.80	1273.0	87.00	0.0641	530	652
450-A1/A2-18/19	481.37	234.18	247.19	18	19	4.07	16.80	1329.0	111.00	0.0641	532	654
500-A1/A2-30/7	512.61	415.63	96.98	30	7	4.20	16.80	1414.0	96.70	0.0577	558	686
500-A1/A2-18/19	537.32	261.40	275.92	18	19	4.30	16.80	1477.0	122.00	0.0577	560	689
560-A1/A2-30/7	575.46	466.59	108.87	30	7	4.45	16.80	1584.0	108.00	0.0515	589	725
560-A1/A2-18/19	601.61	292.68	308.94	18	19	4.55	16.80	1654.0	138.00	0.0515	591	728
560-A1/A2-54/7	566.94	501.88	65.06	54	7	3.44	16.80	1571.0	105.00	0.0516	589	724
630-A1/A2-30/7	644.67	522.70	121.96	30	7	4.71	16.80	1782.0	122.00	0.0458	624	767
630-A1/A2-18/19	675.13	328.44	346.69	18	19	4.82	16.80	1861.0	155.00	0.0458	625	770
710-A1/A2-42/19	739.96	509.48	230.48	42	19	3.93	16.80	2044.0	151.00	0.0407	660	812
710-A1/A2-24/37	770.39	303.10	467.28	24	37	4.01	16.80	2127.0	186.00	0.0407	662	815
800-A1/A2-42/19	833.09	573.60	259.49	42	19	4.17	16.80	2303.0	170.00	0.0361	698	859
800-A1/A2-24/37	869.44	342.08	527.37	24	37	4.26	16.80	2397.0	209.00	0.0361	700	862
900-A1/A2-42/19	940.22	647.36	292.85	42	19	4.43	16.80	2591.0	191.00	0.0321	736	907

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 CONDUCTOR ALLOY REINFORCED (ACAR) - CAN/CSA-C61089-11 - TYPE-A1/A2

Designation	Sectional Area	Aluminium Wires Area	Al.Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter					@ 75°C	@ 85°C
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
900-A1/A2-24/37	978.81	385.10	593.70	24	37	4.52	16.80	2697.0	235.00	0.0321	738	909
1000-A1/A2-42/19	1040.38	716.33	324.05	42	19	4.66	16.80	2879.0	213.00	0.0289	772	951
1000-A1/A2-24/37	1085.51	427.09	658.43	24	37	4.76	16.80	2996.0	262.00	0.0289	774	953
1000-A1/A2-54/37	1053.89	625.38	428.50	54	37	3.84	16.80	2919.0	228.00	0.0289	772	951
1120-A1/A2-72/19	1149.27	909.31	239.96	72	19	4.01	16.80	3184.0	220.00	0.0258	809	997
1120-A1/A2-54/37	1183.92	702.54	481.37	54	37	4.07	16.80	3269.0	255.00	0.0258	811	999
1250-A1/A2-72/19	1284.88	1016.61	268.27	72	19	4.24	16.80	3554.0	246.00	0.0231	848	1045
1250-A1/A2-54/37	1321.51	784.19	537.32	54	37	4.30	16.80	3648.0	285.00	0.0231	849	1047
1400-A1/A2-72/19	1440.87	1140.03	300.84	72	19	4.49	16.80	3980.00	275.00	0.0207	887	1094
1400-A1/A2-54/37	1479.64	878.03	601.61	54	37	4.55	16.80	4086.00	319.00	0.0207	889	1096
1500-A1/A2-72/19	1545.39	1222.73	322.66	72	19	4.65	16.80	4264.00	295.00	0.0193	911	1124
1500-A1/A2-54/37	1585.53	940.86	644.67	54	37	4.71	16.80	4378.00	342.00	0.0193	912	1126
1600-A1/A2-72/19	1646.70	1302.88	343.82	72	19	4.80	16.80	4549.00	314.00	0.0181	933	1152
1600-A1/A2-54/37	1688.13	1001.75	686.38	54	37	4.86	16.80	4670.00	365.00	0.0181	934	1154

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 CONDUCTOR ALLOY REINFORCED (ACAR) - CAN/CSA-C61089-11 - TYPE-A1/A4

Designation	Total Area	Aluminium Wires Area	Al.Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter					@ 75°C	@ 85°C
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(n/Km)	(Ampere)	(Ampere)
10-A1/A4-4/3	10.32	5.90	4.42	4	3	1.37	4.11	28.05	2.22	2.8630	61	72
16-A1/A4-4/3	16.45	9.40	7.05	4	3	1.73	5.19	44.88	3.50	1.7900	81	96
25-A1/A4-4/3	25.65	14.66	10.99	4	3	2.16	6.48	70.13	5.39	1.1450	106	126
40-A1/A4-4/3	40.97	23.41	17.56	4	3	2.73	8.19	112.20	8.39	0.7159	141	168
63-A1/A4-4/3	64.68	36.96	27.72	4	3	3.43	10.29	176.70	12.90	0.4545	184	222
100-A1/A4-4/3	102.60	58.63	43.97	4	3	4.32	12.96	280.50	20.10	0.2863	242	294
125-A1/A4-4/3	128.26	73.29	54.97	4	3	4.83	14.49	350.60	25.10	0.2291	276	337
160-A1/A4-12/7	163.49	103.26	60.23	12	7	3.31	16.55	449.50	31.90	0.1798	318	391
200-A1/A4-12/7	204.29	129.03	75.26	12	7	3.70	18.50	561.90	39.80	0.1439	362	447
250-A1/A4-12/7	255.77	161.54	94.23	12	7	4.14	20.70	702.30	49.00	0.1151	411	512
250-A1/A4-18/19	258.06	125.54	132.52	18	19	2.98	20.86	709.60	53.40	0.1154	412	513
315-A1/A4-30/7	318.38	258.15	60.23	30	7	3.31	23.17	878.40	58.20	0.0916	467	585
315-A1/A4-18/19	324.18	157.71	166.47	18	19	3.34	23.38	894.20	66.40	0.0916	470	588
400-A1/A4-30/7	404.31	327.82	76.49	30	7	3.73	26.11	1115.00	73.90	0.0721	534	674
400-A1/A4-18/19	413.02	200.93	212.09	18	19	3.77	26.39	1135.00	83.30	0.0721	537	678
450-A1/A4-30/7	455.70	369.49	86.21	30	7	3.96	27.72	1255.00	81.30	0.0641	571	723
450-A1/A4-18/19	462.63	225.07	237.57	18	19	3.99	27.93	1277.00	93.80	0.0641	573	727
500-A1/A4-30/7	505.32	409.72	95.60	30	7	4.17	29.19	1394.00	90.40	0.0577	604	769
500-A1/A4-18/19	515.06	250.57	264.49	18	19	4.21	29.47	1419.00	104.00	0.0577	607	773
560-A1/A4-30/7	565.16	458.24	106.92	30	7	4.41	30.87	1562.00	101.00	0.0515	643	821
560-A1/A4-18/19	1140.47	843.63	296.83	54	19	4.46	40.14	1590.00	117.00	0.0515	660	864
560-A1/A4-54/7	563.65	498.97	64.68	54	7	3.43	30.87	1558.00	100.00	0.0516	642	820
630-A1/A4-30/7	636.48	516.06	120.42	30	7	4.68	32.76	1757.00	114.00	0.0458	684	879
630-A1/A4-18/19	650.15	316.29	333.86	18	19	4.73	33.11	1788.00	131.00	0.0458	687	884
710-A1/A4-42/19	721.25	496.60	224.65	42	19	3.88	34.92	1996.00	136.00	0.0407	729	942
710-A1/A4-24/37	736.20	289.65	446.54	24	37	3.92	35.28	2029.00	154.00	0.0407	732	947
800-A1/A4-42/19	813.23	559.93	253.30	42	19	4.12	37.08	2249.00	153.00	0.0361	776	1008

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 CONDUCTOR ALLOY REINFORCED (ACAR) - CAN/CSA-C61089-11 - TYPE-A1/A4

Designation	Total Area	Aluminium Wires Area	Al.Alloy Wires Area	Stranding			Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
				No. of Wires		Wire diameter						
				Aluminum	Al.Alloy							
	(mm²)	(mm²)	(mm²)	(No.)	(No.)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	@ 75°C (Ampere)	@ 85°C (Ampere)
800-A1/A4-24/37	829.10	326.20	502.90	24	37	4.16	37.44	2286.00	173.00	0.0361	778	1013
900-A1/A4-42/19	914.92	629.95	284.98	42	19	4.37	39.33	2530.00	172.00	0.0321	823	1076
900-A1/A4-24/37	931.75	366.59	565.16	24	37	4.41	39.69	2572.00	195.00	0.0321	826	1081
1000-A1/A4-42/19	1018.18	701.04	317.14	42	19	4.61	41.49	2811.00	191.00	0.0289	867	1139
1000-A1/A4-24/37	1035.92	407.58	628.35	24	37	4.65	41.85	2857.00	217.00	0.0289	869	1145
1000-A1/A4-54/37	1021.21	605.99	415.22	54	37	3.78	41.58	2829.00	199.00	0.0289	867	1140
1120-A1/A4-72/19	1132.14	895.76	236.38	72	19	3.98	43.78	3134.00	204.00	0.0258	913	1207
1120-A1/A4-54/37	1149.27	681.98	467.28	54	37	4.01	44.11	3169.00	223.00	0.0258	915	1211
1250-A1/A4-72/19	1266.77	1002.28	264.49	72	19	4.21	46.31	3498.00	228.00	0.0231	960	1278
1250-A1/A4-54/37	1278.83	758.87	519.96	54	37	4.23	46.53	3536.00	249.00	0.0231	961	1282
1400-A1/A4-72/19	1415.31	1119.81	295.50	72	19	4.45	48.95	3918.0	255.00	0.0207	1008	1352
1400-A1/A4-54/37	1434.46	851.22	583.24	54	37	4.48	49.28	3961.0	279.00	0.0207	1009	1356
1500-A1/A4-72/19	1518.92	1201.78	317.14	72	19	4.61	50.71	4198.0	274.00	0.0193	1036	1398
1500-A1/A4-54/37	1538.75	913.10	625.65	54	37	4.64	51.04	4244.0	299.00	0.0193	1038	1402
1600-A1/A4-72/19	1619.37	1281.26	338.11	72	19	4.76	52.36	4478.0	292.00	0.0181	1063	1440
1600-A1/A4-54/37	1639.85	973.10	666.75	54	37	4.79	52.69	4526.0	319.00	0.0181	1065	1444

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.