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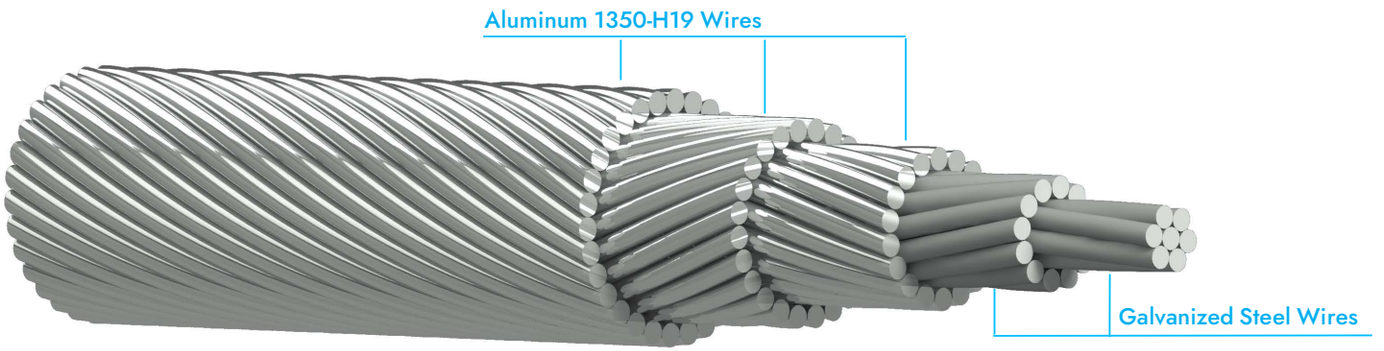
ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR)

All Aluminium Conductors Steel reinforced (ACSR): These are concentrically stranded conductor with one or more layers of hard drawn Aluminium wire on galvanized steel wire core which are coated with zinc with Class A / Class B Coating. The core can be single wire or stranded depending on the size of the conductors.

Construction

Aluminum 1350–H19 Wires, concentrically stranded over a central wire/core of Galvanized steel



Features:

- High Tensile strength
- Better sag properties
- Economic design
- Suitable for remote applications involving long spans

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

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IS 398 (PART II)

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
10	12.37	6	1	1.50	1.50	4.50	43	3.97	2.78000	59	69
18	21.12	6	1	1.96	1.96	5.88	73	6.74	1.61800	81	97
20	24.48	6	1	2.11	2.11	6.33	85	7.61	1.39400	89	106
30	36.88	6	1	2.59	2.59	7.77	128	11.12	0.92890	114	136
50	61.70	6	1	3.35	3.35	10.05	214	18.25	0.55240	155	186
80	91.97	6	1	4.09	4.09	12.27	319	26.91	0.37120	196	237
100	118.5	6	7	4.72	1.57	14.15	394	32.41	0.27920	231	282
150	194.9	30	7	2.59	2.59	18.13	726	67.34	0.18710	315	389
200	261.5	30	7	3.00	3.00	21.00	974	89.67	0.13900	374	465
400	425.2	42	7	3.50	1.96	26.88	1281	88.79	0.07311	525	664
420	484.5	54	7	3.18	3.18	28.62	1621	130.32	0.06868	546	693
520	597.0	54	7	3.53	3.53	31.77	1998	159.60	0.05595	612	783
560	591.7	42	7	4.13	2.30	31.68	1781	120.16	0.05231	631	808

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IS 398 (PART V)

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
520	597.0	54	7	3.53	3.53	31.77	2004	161.20	0.05552	614	786
560	591.7	42	7	4.13	2.30	31.68	1787	120.16	0.05199	633	810
690	724.4	42	7	4.57	2.54	35.04	2187	146.87	0.04242	706	912

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - BS 215 Part-2

Code Name	Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
GOPHER	25	30.62	6	1	2.36	2.36	7.08	106	9.61	1.09300	103	122
WEASEL	30	36.88	6	1	2.59	2.59	7.77	128	11.45	0.90770	115	137
FERRET	40	49.48	6	1	3.00	3.00	9.00	172	15.20	0.67660	137	164
RABBIT	50	61.70	6	1	3.35	3.35	10.05	214	18.35	0.54260	156	188
HORSE	70	116.2	12	7	2.79	2.79	13.95	538	61.20	0.39360	194	237
DOG	100	118.5	6	7	4.72	1.57	14.15	394	32.70	0.27330	234	285
WOLF	150	194.9	30	7	2.59	2.59	18.13	726	69.20	0.18280	319	393
DINGO	150	167.5	18	1	3.35	3.35	16.75	506	35.70	0.18150	316	388
LYNX	175	226.2	30	7	2.79	2.79	19.53	842	79.80	0.15760	347	430
CARACAL	175	194.5	18	1	3.61	3.61	18.05	587	41.10	0.15630	344	425
PANTHER	200	261.5	30	7	3.00	3.00	21.00	974	92.25	0.13630	377	470
JAGUAR	200	222.3	18	1	3.86	3.86	19.30	671	46.55	0.13670	372	460
ZEBRA	400	484.5	54	7	3.18	3.18	28.62	1621	131.90	0.06740	551	700

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
10/1.8	10.6/1.77	6	1	1.50	1.50	4.50	42.7	4.09	2.70640	60	70
16/2.7	16/2.69	6	1	1.85	1.85	5.60	64.9	6.22	1.78180	77	91
25/4.2	24.9/4.15	6	1	2.30	2.30	6.90	100.3	9.30	1.15210	100	119
35/6.2	36.9/6.15	6	1	2.80	2.80	8.40	148.0	13.52	0.77740	126	151
40/6.7	40/6.7	6	1	2.91	2.91	8.74	161.3	14.40	0.71720	132	158
50/8.0	48.2/8.04	6	1	3.20	3.20	9.60	195.0	17.11	0.59510	148	178
63/10.5	63/10.5	6	1	3.66	3.66	10.97	254.0	21.63	0.45530	173	209
70/11	68/11.3	6	1	3.80	3.80	11.40	276.0	24.13	0.42180	181	219
70/72	68.4 /72.2	18	19	2.20	2.20	15.40	755.0	96.83	0.41940	191	234
95/16	95.4/15.9	6	1	4.50	4.50	13.50	385.0	33.37	0.30070	221	269
95/141	91.2/141	24	37	2.20	2.20	19.80	1357.0	180.78	0.31460	230	285
100/16.7	100/16.7	6	1	4.61	4.61	13.82	403.2	34.33	0.28680	227	277
120/19	118/18.8	26	7	2.40	1.85	15.20	471.0	41.52	0.24400	268	328
120/27	114/26.6	30	7	2.20	2.20	15.40	528.0	49.47	0.25310	264	323
125/6.9	125/6.9	18	1	2.97	2.97	14.85	397.9	29.17	0.23040	275	336
125/20.4	125/20.4	26	7	2.47	1.92	15.67	503.5	45.69	0.23080	277	339
150/19	148/18.8	24	7	2.80	1.85	16.80	554.0	46.31	0.20460	298	366
150/24	149/24.2	26	7	2.70	2.10	17.10	599.0	52.28	0.20390	299	368
150/34	147/34.3	30	7	2.50	2.50	17.50	675.0	62.64	0.20610	299	368
160/8.9	160/8.9	18	1	3.36	3.36	16.82	509.4	36.18	0.18000	317	390
160/26.1	160/26.1	26	7	2.80	2.18	17.73	644.5	57.69	0.18030	320	394
185/24	187/24.2	24	7	3.15	2.10	18.90	705.0	58.08	0.15400	349	432
185/29	181/29	26	7	2.98	2.30	18.80	728.0	62.06	0.15910	344	425
185/43	185/43.1	30	7	2.80	2.80	19.60	846.0	77.77	0.15590	349	433

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
185/128	187/128	54	37	2.10	2.10	23.10	1525.0	183.82	0.15430	360	450
200/11.1	200/11.1	18	1	3.76	3.76	18.81	636.7	44.22	0.14400	361	446
200/32.6	200/32.6	26	7	3.13	2.43	19.82	805.6	70.13	0.14420	364	451
205/27	205/26.6	24	7	3.30	2.20	19.80	774.0	63.74	0.14070	368	456
240/32	244/31.7	24	7	3.60	2.40	21.60	921.0	75.05	0.11820	407	507
240/39	236/38.6	26	7	3.40	2.65	21.60	952.0	80.90	0.12220	400	499
240/56	241/56.3	30	7	3.20	3.20	22.40	1106.0	98.25	0.11970	407	508
300/39	301/38.6	24	7	4.00	2.65	24.00	1132.0	90.57	0.09580	458	575
300/48	295/47.8	26	7	3.80	2.95	24.10	1186.0	100.62	0.09780	454	570
300/66	288.5 / 65.8	30	19	3.50	2.10	24.50	1313.0	117.52	0.10000	450	565
300/67	288.5 / 67.3	30	7	3.50	3.50	24.50	1323.0	126.27	0.10000	450	565
300/204	298/204	54	37	2.65	2.65	29.20	2428.0	284.58	0.09680	469	596
315/21.8	315/21.8	45	7	2.99	1.99	23.83	1039.2	79.03	0.09170	462	579
315/51.3	315/51.3	26	7	3.93	3.05	24.87	1268.9	106.83	0.09160	471	592
330/30	335/29.1	48	7	2.98	2.30	24.80	1152.0	88.85	0.08610	479	602
330/43	332/43.1	54	7	2.80	2.80	25.20	1255.0	103.78	0.08690	478	602
400/27.7	400/27.7	45	7	3.36	2.24	26.91	1319.7	98.36	0.07220	529	668
400/51.9	400/51.9	54	7	3.07	3.07	27.64	1509.7	123.04	0.07220	530	672
400/18	381/18.8	42	7	3.40	1.85	26.00	1199.0	85.60	0.07580	514	648
400/22	394/22	76	7	2.57	2.00	26.60	1261.0	95.12	0.07330	530	670
400/51	394/51.1	54	7	3.05	3.05	27.50	1490.0	120.48	0.07330	526	666
400/64	390/63.5	26	7	4.37	3.40	27.70	1572.0	129.18	0.07410	531	672
400/93	406/93.2	30	19	4.15	2.50	29.10	1851.0	173.72	0.07110	546	693
450/31.1	450/31.1	45	7	3.57	2.38	28.55	1484.6	107.47	0.06460	563	714

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
450/58.3	450/58.3	54	7	3.26	3.26	29.32	1698.4	138.42	0.06420	566	720
450/56	434/56.3	54	7	3.20	3.20	28.80	1640.0	131.37	0.06660	555	705
500/34.6	500/34.6	45	7	3.76	2.51	30.09	1649.6	119.41	0.05770	598	763
500/64.8	500/64.8	54	7	3.43	3.43	30.90	1887.1	153.80	0.05780	600	766
500/26	502/26.6	42	7	3.90	2.20	30.00	1592.0	112.55	0.05750	599	763
500/27	481/26.6	76	7	2.84	2.20	29.40	1537.0	112.19	0.06000	593	754
500/64	490/63.5	54	7	3.40	3.40	30.60	1852.0	148.26	0.05880	594	759
500/204	496/204	90	37	2.65	2.65	34.50	2979.0	319.61	0.05800	608	783
500/336	490/336	54	61	3.40	2.65	37.50	4005.0	466.65	0.05880	617	802
550/71	549/71.2	54	7	3.60	3.60	32.40	2076.0	166.16	0.05260	632	810
560/38.7	560/38.7	45	7	3.98	2.65	31.84	1847.5	133.74	0.05150	637	815
560/70.9	560/70.9	54	19	3.63	2.18	32.70	2102.2	172.59	0.05160	638	819
600/72	580/72.2	54	19	3.70	2.20	33.20	2170.0	183.84	0.04980	651	836
630/43.6	630/43.6	45	7	4.22	2.81	33.79	2078.5	150.45	0.04580	678	873
630/79.8	630/79.8	54	19	3.85	2.31	34.69	2365.0	191.77	0.04590	680	877
650/79	634/78.9	96	19	2.90	2.30	34.70	2372.0	200.45	0.04560	691	892
700/86	687/85.9	96	19	3.02	2.40	36.20	2575.0	217.78	0.04200	722	936
710/49.1	710/49.1	45	7	4.48	2.99	35.86	2342.4	169.56	0.04060	723	936
710/89.9	710/89.9	54	19	4.09	2.45	36.82	2665.3	216.12	0.04070	725	941
750/93	748/93.2	96	19	3.15	2.50	37.70	2800.0	234.45	0.03860	755	982
800/34.6	800/34.6	72	7	3.76	2.51	37.61	2479.6	167.41	0.03610	776	1010
800/66.7	800/66.7	84	7	3.48	3.48	38.30	2732.3	205.43	0.03610	779	1015
800/101.3	800/101.3	54	19	4.34	2.61	39.09	3003.2	243.52	0.03610	772	1008
800/105	821/105	96	19	3.30	2.65	39.70	3092.0	260.07	0.03520	793	1037

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
900/38.9	900/38.9	72	7	3.99	2.66	39.89	2789.5	188.33	0.03210	824	1078
900/75	900/75	84	7	3.69	3.69	40.63	3073.9	226.50	0.03210	828	1085
1000/43.2	1000/43.2	72	7	4.21	2.80	42.05	3099.4	209.26	0.02890	869	1143
1000/56	1003.2/56.3	76	7	4.10	3.20	42.40	3210.0	224.05	0.02880	871	1148
1120/47.3	1120/47.3	72	19	4.45	1.78	44.50	3463.9	234.28	0.02580	917	1215
1120/91.2	1120/91.2	84	19	4.12	2.47	45.32	3810.7	283.17	0.02530	930	1235
1250/52.8	1250/52.8	72	19	4.70	1.88	47.02	3865.9	261.75	0.02310	966	1288
1250/101.8	1250/101.8	84	19	4.35	2.61	47.88	4253.0	316.04	0.02310	972	1298

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - AS 3607

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
34	34.36	6	1	2.50	2.50	7.50	119	10.50	0.97500	110	131
42	41.58	6	1	2.75	2.75	8.30	144	12.60	0.80500	124	148
49	49.48	6	1	3.00	3.00	9.00	171	14.90	0.67700	137	164
77	77.31	6	1	3.75	3.75	11.30	268	22.70	0.43300	178	216
120	120.4	6	7	4.75	1.60	14.30	402	33.40	0.27100	235	287
182	181.6	30	7	2.50	2.50	17.50	677	63.50	0.19600	306	377
262	261.5	30	7	3.00	3.00	21.00	973	90.40	0.13600	378	470
307	306.9	30	7	3.25	3.25	22.80	1140	105.00	0.11600	414	518
356	356.0	30	7	3.50	3.50	24.50	1320	122.00	0.10000	450	565
431	431.2	54	7	3.00	3.00	27.00	1440	119.00	0.07580	516	653
506	506.0	54	7	3.25	3.25	29.30	1690	137.00	0.06460	564	718
587	586.9	54	7	3.50	3.50	31.50	1960	159.00	0.05570	612	783
672	672.0	54	19	3.75	2.25	33.80	2240	178.00	0.04850	660	850
17	16.84	3	4	1.75	1.75	5.30	95	12.70	3.25000	56	67
34	34.36	3	4	2.50	2.50	7.50	195	24.40	1.59000	86	103
49	49.48	4	3	3.00	3.00	9.00	243	28.30	0.89700	119	143
77	77.31	4	3	3.75	3.75	11.30	380	43.90	0.57300	155	188

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IEC 61089 - TYPE A1/S1A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.08	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.13	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	14.40	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	29.17	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	45.69	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	36.18	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	57.69	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	70.13	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	68.72	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	87.67	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	79.03	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	106.83	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	98.36	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	123.04	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	107.47	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	138.42	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	119.41	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	153.80	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	133.74	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	172.59	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	150.45	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	191.77	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	169.56	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	216.12	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	167.41	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	205.33	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	243.52	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	188.33	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	209.26	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	234.53	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	283.17	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	316.04	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	261.75	0.02310	966	1288

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IEC 61089 - TYPE A1/S1B

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	5.89	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	8.83	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	13.93	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	20.58	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	32.67	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	28.68	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	44.27	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	35.29	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	55.86	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	43.11	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	67.85	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	67.01	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	84.82	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	77.51	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	101.70	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	96.42	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	117.85	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	105.29	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	132.58	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	116.99	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	147.31	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	131.03	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	167.63	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	147.40	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	186.19	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	166.12	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	209.83	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	164.99	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	198.67	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	236.43	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	185.61	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	219.00	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	206.23	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	231.22	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	276.78	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	308.91	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	258.06	0.02310	966	1288

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IEC 61089 - TYPE A1/S2A

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.45	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.71	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	15.33	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	22.37	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	35.50	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	3014.00	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	4854.00	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	3742.00	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	61.34	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	45.00	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	74.69	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	72.16	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	93.37	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	82.08	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	114.02	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	102.23	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	130.30	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	111.82	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	146.58	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	124.25	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	162.87	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	139.16	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	182.52	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	156.55	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	202.94	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	176.43	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	228.71	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	172.25	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	214.67	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	257.71	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	193.78	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	231.75	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	215.31	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	241.15	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	295.94	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	330.29	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	269.14	0.02310	966	1288

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IEC 61089 - TYPE A1/S2B

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.27	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.42	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	14.87	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	29.65	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	47.12	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	36.80	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	59.51	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	72.41	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	70.44	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	90.52	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	80.55	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	110.43	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	100.29	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	126.67	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	109.64	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	142.50	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	121.83	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	158.33	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	136.45	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	177.56	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	153.50	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	197.36	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	172.99	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	222.42	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	169.83	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	210.00	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	250.61	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	191.06	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	212.28	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	237.84	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	289.55	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	323.16	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	265.44	0.02310	966	1288

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IEC 61089 - TYPE A1/S3A

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.83	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	10.25	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	16.20	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	24.15	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	38.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	31.04	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	51.39	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	38.67	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	64.99	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	46.89	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	78.93	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	75.60	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	98.66	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	85.13	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	121.20	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	106.10	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	137.56	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	115.87	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	154.75	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	128.74	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	171.94	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	144.19	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	192.45	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	162.21	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	213.32	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	182.81	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	240.41	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	176.74	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	224.00	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	270.88	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	198.83	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	244.50	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	220.93	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	247.77	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	307.79	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	343.52	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	276.53	0.02310	966	1288

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Austria)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
34-AL1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	121	144
48-AL1/6-ST1A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	148	178
70-AL1/11-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	197	238
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	236	287
94-AL1 /15-ST1A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	235	286
97-AL1/34-ST1A	131.1	36	7	1.85	2.50	14.90	536.5	57.07	0.29900	241	295
122-AL1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	273	334
119-AL1/42-ST1A	160.4	36	7	2.05	2.75	16.50	653.9	68.79	0.24350	272	334
128-AL1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	282	346
149-AL1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	307	377
150-AL1/53-ST1 A	202.4	36	7	2.30	3.10	18.50	827.1	84.29	0.19340	311	384
172-AL1/40-ST1A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	334	413
184-AL1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	346	428
209-AL1/34-ST1 A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	373	463
212-AL1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	377	470
243-AL1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	406	507
238-AL1/82-ST1A	320.2	36	19	2.90	2.35	23.40	1305.3	134.37	0.12180	406	508
257-AL1/60-ST1A	316.5	30	7	3.30	3.30	23.10	1177.5	108.20	0.11260	421	527
304-AL1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	462	580
341-AL1/109-ST1A	450.0	78	19	2.36	2.70	27.70	1797.4	183.73	0.08480	497	629
382-AL1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	516	653
449-AL1 /39-S T1 A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	564	716
562-AL1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1 939.5	146.28	0.05150	637	817
679-AL1/86-ST1 A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	708	916
1288-AL1/183-ST1A	1471.1	100	19	4.05	3.50	49.90	5002	407.20	0.02250	991	1331

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 STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Finland)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
34-AL1/6-ST1A	39.5	6	1	2.68	2.68	8.04	136.6	12.18	0.84670	120	143
54-AL1/9-ST1A	62.4	6	1	3.37	3.37	10.11	216.1	18.64	0.53550	157	189
85-AL1 /14-ST1 A	99.3	6	1	4.25	4.25	12.75	343.6	29.22	0.33670	207	251
106-AL1/25-ST1 A	130.6	30	7	2.12	2.12	14.84	485.9	47.97	0.27290	253	309
152-AL1/25-ST1 A	176.9	26	7	2.73	2.12	17.28	613.6	54.78	0.18980	310	382
305-AL1/39-ST1A	344.1	54	7	2.68	2.68	24.12	1151.2	96.80	0.09490	455	571
565-AL1/72-ST1A	636.6	54	19	3.65	2.19	32.85	2123.0	174.14	0.05120	641	823
42-AL1/25-ST1A	67.1	12	7	2.12	2.12	10.60	310.2	36.53	0.68170	141	170
89-AL1/52-ST1A	141.6	12	7	3.08	3.08	15.40	654.8	72.12	0.32300	218	267
93-AL1/39-ST1A	132.4	10	7	3.44	2.68	14.92	565.1	60.35	0.31020	221	271
148-AL1/67-ST1A	215.3	42	19	2.12	2.12	19.08	937.3	105.16	0.19550	307	380

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in France)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
28-AL1/9-ST1A	37.7	9	3	2.00	2.00	8.30	151.5	16.26	1.01870	110	131
38-AL1/22-ST1A	59.7	12	7	2.00	2.00	10.00	276.1	32.70	0.76600	131	158
48-AL1/28-ST1A	75.5	12	7	2.25	2.25	11.30	349.4	41.15	0.60520	151	182
59-AL1/34-ST1A	93.3	12	7	2.50	2.50	12.50	431.4	49.48	0.49020	171	207
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	236	287
119-AL1/28-ST1A	147.1	30	7	2.25	2.25	15.80	547.4	54.03	0.24230	271	332
147-AL1/34-ST1A	181.6	30	7	2.50	2.50	17.50	675.8	64.94	0.19630	306	377
185-AL1/43-ST1A	227.8	30	7	2.80	2.80	19.60	847.7	80.54	0.15650	349	432
234-AL1/55-ST1A	288.3	30	7	3.15	3.15	22.10	1072.8	98.58	0.12360	399	498

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 STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST6C

(Used in France)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
94-AL 1/22-ST6C	116.2	30	7	2.00	2.00	14.00	433	49.32	0.30670	236	287
119-AL 1/28-ST6C	147.1	30	7	2.25	2.25	15.80	547	61.83	0.24230	271	332
147-AL 1/34-ST6C	181.6	30	7	2.50	2.50	17.50	676	74.22	0.19630	306	377
185-AL 1/43-ST6C	227.8	30	7	2.80	2.80	19.60	848	92.18	0.15650	349	432
234-AL 1/55-ST6C	288.3	30	7	3.15	3.15	22.10	1073	113.86	0.12360	399	498
222-AL 1/76-ST6C	297.2	36	19	2.80	2.25	22.50	1207	147.22	0.13070	389	486
326-AL 1/86-ST6C	411.7	32	19	3.60	2.40	26.40	1576	173.31	0.08890	482	609
508-AL 1/105-ST6C	612.6	66	19	3.13	2.65	32.00	2227	231.55	0.05700	607	778
717-AL 1/148-ST6C	865.4	66	19	3.72	3.15	38.10	3145	319.11	0.04030	732	953
957 -AL 1 /228-ST6C	1184.5	54	37	2.80	2.80	44.70	4434	480.75	0.03020	864	1144

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Germany)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
15-AL1/3-ST1A	17.8	6	1	1.80	1.80	5.40	61.6	5.80	1.87690	74	88
24-AL 1/4-ST1A	27.8	6	1	2.25	2.25	6.75	96.3	8.95	1.20120	97	116
34-AL 1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	121	144
44-AL 1 /32-ST1 A	75.6	14	7	2.00	2.40	11.20	369.3	44.24	0.65740	145	175
48-AL 1 /8-ST1 A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	148	178
51-AL 1/30-ST1A	81.0	12	7	2.33	2.33	11.70	374.7	42.98	0.56440	157	190
70-AL 1/1 1-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	197	238
94-AL 1 /15-ST1 A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	235	286
97-AL 1/56-ST1A	152.8	12	7	3.20	3.20	16.00	706.8	77.85	0.29920	228	280
106-AL1/76-ST1A	181.2	14	19	3.10	2.25	17.50	885.3	105.82	0.27420	242	298
122-AL 1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	273	334
122-AL 1/71-ST1A	193.4	12	7	3.60	3.60	18.00	894.5	97.92	0.23640	262	323
128-AL 1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	282	346
149-AL 1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	307	377
172-AL 1/40-ST1 A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	334	413
184-AL 1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	346	428
209-AL 1/34-ST1A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	373	463
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	377	470
231-AL 1/30-ST1A	260.8	24	7	3.50	2.33	21.00	870.9	72.13	0.12500	394	490
243-AL 1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	406	507
264-AL 1/34-ST1A	297.7	24	7	3.74	2.49	22.40	994.4	81.04	0.10950	425	531
304-AL 1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	462	580
305-AL 1 /39-ST1 A	344.1	54	7	2.68	2.68	24.10	1151.2	96.80	0.09490	455	571
339-AL 1 /30-ST1 A	369.1	48	7	3.00	2.33	25.00	1171.2	91.71	0.08520	482	606
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	516	653
386-AL 1/34-ST1A	420.1	48	7	3.20	2.49	26.70	1333.6	102.56	0.07490	518	655
434-AL 1/56-ST1A	490.6	54	7	3.20	3.20	28.80	1641.3	133.59	0.06660	555	705
449-AL 1/39-ST1A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	564	716
490-AL 1/64-ST1A	553.8	54	7	3.40	3.40	30.60	1852.9	150.81	0.05900	593	757

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Germany)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
494-Al 1/34-ST1A	528.4	45	7	3.74	2.49	29.90	1632.6	117.96	0.05840	594	757
511-AL 1/45-ST1A	555.8	48	7	3.68	2.87	30.70	1765.3	133.31	0.05660	605	773
550-AL 1/71-ST1A	620.9	54	7	3.60	3.60	32.40	2077.2	166.32	0.05260	632	810
562-AL 1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1939.5	146.28	0.05150	637	817
571-AL 1/39-ST1A	610.6	45	7	4.02	2.68	32.20	1887.1	136.40	0.05060	643	824
653-AL 1/45-ST1A	698.8	45	7	4.30	2.87	34.40	2159.9	156.18	0.04420	691	891
679-AL 1/86-ST1A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	708	916
1046-AL 1 /45-ST1A	1090.9	72	7	4.30	2.87	43.00	3248.2	218.92	0.02770	887	1170

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Norway)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
27-AL 1/9-ST1A	36.0	8	1	2.06	3.44	7.56	145.6	15.02	1.07760	105	125
38-AL 1/13-ST1A	51.3	8	1	2.46	4.11	9.03	207.7	21.25	0.75570	130	155
40-AL 1/7-ST1A	46.2	6	1	2.90	2.90	8.70	160.0	14.27	0.72310	132	158
52-AL 1/30-ST1A	82.1	12	7	2.36	2.32	11.70	376.4	42.92	0.55010	159	193
53-AL 1/19-ST1A	71.8	8	1	2.91	4.86	10.70	290.5	29.45	0.54000	158	191
56-AL 1/9-ST1A	65.1	6	1	3.44	3.44	10.30	225.1	19.42	0.51390	161	194
79-AL 1/46-ST1A	125.5	12	7	2.90	2.90	14.50	580.5	66.18	0.36430	203	248
80-AL 1/13-ST1A	92.9	6	1	4.11	4.11	12.30	321.4	27.33	0.36000	199	241
111-AL 1/19-ST1A	129.9	6	1	4.86	4.86	14.60	449.4	38.21	0.25750	242	296
112-AL 1/65-ST1A	176.6	12	7	3.44	3.44	17.20	816.8	89.97	0.25890	248	305
112-AL 1/18-ST1A	130.0	26	7	2.34	1.82	14.80	451.2	40.87	0.25830	259	317
151-AL 1/25-ST1A	175.8	26	7	2.72	2.12	17.20	610.5	54.59	0.19120	309	380
151-AL 1/35-ST1A	186.0	30	7	2.53	2.53	17.70	692.1	65.76	0.19160	310	382
191-AL 1/31-ST1A	222.3	26	7	3.06	2.38	19.40	771.6	67.05	0.15100	354	439
191-AL 1/45-ST1A	236.0	30	7	2.85	2.85	20.00	878.2	83.44	0.15100	356	442
239-AL 1/39-ST1A	277.7	26	7	3.42	2.66	21.70	963.9	83.76	0.12090	403	502
238-AL 1/56-ST1A	293.9	30	7	3.18	3.18	22.30	1093.4	100.47	0.12130	404	504
293-AL 1/48-ST1 A	341.2	26	7	3.79	2.95	24.00	1184.3	101.47	0.09850	452	567
294-AL 1/69-ST1A	362.1	30	7	3.53	3.53	24.70	1347.3	122.33	0.09840	454	571
381-AL 1/62-ST1A	443.2	26	7	4.32	3.36	27.40	1537.9	129.25	0.07580	524	664
381-AL 1/87-ST1A	467.4	30	19	4.02	2.41	28.10	1733.6	159.73	0.07600	525	666
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	516	653
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1520.5	123.75	0.07190	532	673
476-AL 1/78-ST1A	554.1	26	7	4.83	3.76	30.60	1923.6	161.72	0.06060	594	758
477-AL 1/109-ST1A	585.9	30	19	4.50	2.70	31.50	2173.7	200.36	0.06060	596	762
476-AL 1/62-ST1A	537.7	54	7	3.35	3.35	30.20	1798.8	146.40	0.06080	584	744
525-AL 1/68-ST1A	593.6	54	7	3.52	3.52	31.70	1986.0	159.01	0.05500	617	789
565-AL 1/72-ST1A	636.6	54	19	3.65	2.19	32.90	2123.0	174.14	0.05120	641	823
606-AL 1/77-ST1A	682.9	54	19	3.78	2.27	34.00	2278.0	184.62	0.04770	666	858

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Norway)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
645-AL 1/82-ST1A	726.8	54	19	3.90	2.34	35.10	2423.8	196.36	0.04480	689	890
766-AL 1/97 -ST1 A	863.1	54	19	4.25	2.55	38.30	2878.3	233.19	0.03770	755	983
806-AL 1/102-ST1A	908.7	54	19	4.36	2.62	39.30	3031.7	245.77	0.03580	776	1013
1223-AL1/307-ST1A	1529.7	72	37	4.65	3.25	50.70	5796.3	533.27	0.02370	964	1296

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST5E

(Used in Norway)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
606-AL 1/77-ST5E	682.9	54	19	3.78	2.27	34.00	2278.0	206.15	0.04770	666	858
766-AL 1 /97 -ST5E	863.1	54	19	4.25	2.55	38.30	2878.3	255.51	0.03770	755	983

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Spain)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
27-AL 1/4-ST1A	31.1	6	1	2.38	2.38	7.14	107.8	9.74	1.07360	104	124
4 7 -AL 1/8-ST1 A	54.6	6	1	3.15	3.15	9.45	188.8	16.29	0.61290	145	174
67-AL1/11-ST1A	78.6	6	1	3.78	3.78	11.30	271.8	23.12	0.42560	180	218
94-AL 1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	236	287
119-AL 1 /28-ST1 A	147.1	30	7	2.25	2.25	15.80	547.4	54.03	0.24230	271	332
147-AL 1/34-ST1A	181.6	30	7	2.50	2.50	17.50	675.8	64.94	0.19630	306	377
242-AL 1/39-ST1A	281.1	26	7	3.44	2.68	21.80	976.2	84.89	0.11950	405	505
337-AL 1/44-ST1A	381.0	54	7	2.82	2.82	25.40	1274.6	107.18	0.08570	482	607
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1520.5	123.75	0.07190	532	673
485-AL 1 /63-ST1 A	547.3	54	7	3.38	3.38	30.40	1831.1	149.04	0.05970	589	752
565-AL 1/72-ST1A	636.6	54	19	3.65	2.19	32.90	2123.0	174.14	0.05120	641	823

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Switzerland)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
22-AL 1/4-ST1A	25.2	6	1	2.14	2.14	6.42	87.1	8.09	1.32790	92	109
30-AL 1/5-ST1A	34.9	6	1	2.52	2.52	7.56	120.8	10.77	0.95760	111	133
43-AL 1/7-ST1A	50.1	6	1	3.02	3.02	9.06	173.5	14.97	0.66680	138	166
60-AL 1/10-ST1 A	69.7	6	1	3.56	3.56	10.70	241.1	20.50	0.47980	168	202
79-AL 1 /18-ST1 A	97.3	30	7	1.83	1.83	12.80	362.1	36.14	0.36630	212	258
97-AL 1/23-ST1A	119.8	30	7	2.03	2.03	14.20	445.6	43.98	0.29770	240	293
121-AL 1/28-ST1A	149.7	30	7	2.27	2.27	15.90	557.1	53.54	0.23810	273	335
150-AL 1/35-ST1 A	184.5	30	7	2.52	2.52	17.60	686.6	65.24	0.19320	309	380
194-AL 1/45-ST1A	239.4	30	7	2.87	2.87	20.10	890.6	84.62	0.14890	359	445
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	377	470
244-AL 1 /57-ST1 A	301.3	30	7	3.22	3.22	22.50	1121.1	103.01	0.11830	409	511
282-AL 1/66-ST1 A	347.9	30	7	3.46	3.46	24.20	1294.4	118.94	0.10250	444	557
357-AL 1/46-ST1A	402.9	54	7	2.90	2.90	26.10	1348.0	113.35	0.08110	497	627
440-AL 1 /57-ST1 A	496.7	54	7	3.22	3.22	29.00	1661.9	135.26	0.06580	559	710
487-AL 1/63-ST1A	550.6	54	7	3.39	3.39	30.50	1842.0	149.92	0.05930	592	755
531-AL 1/69-ST1A	600.4	54	7	3.54	3.54	31.90	2008.6	160.82	0.05440	620	794
748-AL 1/97-ST1A	845.2	96	19	3.15	2.55	38.00	2832.9	234.06	0.03870	755	982

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Sweden)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
54-AL 1/9-ST1A	62.4	6	1	3.37	3.37	10.10	216	18.64	0.53550	157	189
85-AL 1/14-ST1A	99.3	6	1	4.25	4.25	12.80	344	29.22	0.33670	207	251
135-AL 1/22-ST1A	156.9	26	7	2.57	2.00	16.30	545	48.66	0.21410	290	355
201-AL 1 /33-ST1 A	234.1	26	7	3.14	2.44	19.90	812	70.53	0.14340	365	453
283-AL 1/46-ST1A	328.5	26	7	3.72	2.89	23.60	1140	97.56	0.10220	443	555
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1521	123.75	0.07190	532	673
525-AL 1/68-ST1A	593.6	54	7	3.52	3.52	31.70	1986	159.01	0.05500	617	789
685-AL 1/89-ST1A	774.2	54	7	4.02	4.02	36.20	2590	207.39	0.04220	711	921
806-AL 1/102-ST1A	908.7	54	19	4.36	2.62	39.30	3032	245.77	0.03580	776	1013
563-AL 1/29-ST1A	592.0	42	7	4.13	2.31	31.70	1784	123.47	0.05130	637	816
735-AL 1 /38-ST1 A	772.9	42	7	4.72	2.63	36.20	2328	160.93	0.03930	734	952
865-AL 1/44-ST1A	908.8	42	7	5.12	2.83	39.20	2733	188.55	0.03340	799	1043
89-AL 1/52-ST1A	141.6	12	7	3.08	3.08	15.40	655	72.12	0.32300	218	267
117-Al1/68-ST1 A	184.9	12	7	3.52	3.52	17.60	855	93.62	0.24730	255	314
152-AL 1/89-ST1A	241.2	12	7	4.02	4.02	20.10	1115	122.10	0.18960	297	369
251-AL 1/65-ST1A	315.6	32	7	3.16	3.43	22.90	1200	112.56	0.11520	416	520

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in United Kingdom)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
11-AL 1/2-ST1A	12.4	6	1	1.50	1.50	4.50	43	4.14	2.70270	60	70
21-AL 1/3-ST1A	24.5	6	1	2.11	2.11	6.33	85	7.87	1.36590	90	107
26-AL 1/4-ST1A	30.6	6	1	2.36	2.36	7.08	106	9.58	1.09190	103	123
32-AL 1/5-ST1A	36.9	6	1	2.59	2.59	7.77	128	11.38	0.90650	115	137
37-AL 1/6-ST1A	42.8	6	1	2.79	2.79	8.37	148. 1	13.21	0.78120	126	150
42-AL 1/7-ST1A	49.5	6	1	3.00	3.00	9.00	171	15.27	0.67570	137	164
53-AL 1/9-ST1A	61.7	6	1	3.35	3.35	10.10	214	18.42	0.54190	156	188
63-AL 1/11-ST1A	73.6	6	1	3.66	3.66	11.00	255	21.67	0.45400	173	209
63-AL 1/37-ST1A	100.1	12	7	2.59	2.59	13.00	463	52 .79	0.45680	178	216
7 5-AL 1 /13-ST1 A	87.5	6	1	3.99	3.99	12.00	303	25.76	0.38200	192	233
73-AL 1/43-ST1A	116.2	12	7	2.79	2.79	14.00	537	61.26	0.39360	194	237
79-AL 1/13-ST1A	92.0	6	1	4.09	4.09	12.30	318	27.06	0.36350	198	240
84-AL 1 /14-ST1 A	97.9	6	1	4.22	4.22	12.70	339	28.81	0.34150	205	249
95-AL1/16-ST1A	111.3	6	1	4.50	4.50	13.50	385	32.76	0.30030	221	269
105-AL 1/17-ST1A	122.5	6	1	4.72	4.72	14.20	424	36.04	0.27300	234	285
105-AL 1/14-ST1A	118.5	6	7	4.72	1.57	14.20	394	32.65	0.27330	234	285
132-AL 1 /20-ST1 A	151.8	26	7	2.54	1.91	15.90	521	45.86	0.21920	285	349
132-AL 1/7-ST1A	138.8	18	1	3.05	3.05	15.30	419	29.74	0.21880	283	347
131-AL 1/31-ST1A	161.9	30	7	2.36	2.36	16.50	602	57.87	0.22020	286	351
158-AL 1/37-ST1 A	194.9	30	7	2.59	2.59	18.10	725	68.91	0.18290	319	393
159-AL 1/9-ST1A	167.5	18	1	3.35	3.35	16.80	505	35.87	0.18140	316	388
183-AL 1/43-ST1A	226.2	30	7	2.79	2.79	19.50	842	79 .97	0.15760	347	430
184-AL1/10-ST1A	194.5	18	1	3.61	3.61	18.10	587	40.74	0.15620	345	425
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973	92.46	0.13630	377	470
211-AL1/12-ST1A	222.3	18	1	3.86	3.86	19.30	671	46.57	0.13660	372	461
238-AL 1/56-ST1 A	293.9	30	7	3.18	3.18	22.30	1 093.4	100.47	0.12130	404	504
264-AL 1/62-ST1 A	326.1	30	7	3.35	3.35	23.50	1 213.4	111. 50	0.10930	428	536
324-AL 1/76-ST1A	400.0	30	7	3.71	3.71	26.00	1 488.2	135.13	0.08910	481	606

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 STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in United Kingdom)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
375-AL 1/88-ST1A	462.6	30	7	3.99	3.99	27.90	1 721.3	156.30	0.07710	521	661
374-AL 1/48-ST1A	422.6	54	7	2.97	2.97	26.70	1 413.8	118.88	0.07730	511	645
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1 442.5	121.30	0.07580	516	653
430-AL 1/100-ST1A	529.8	30	7	4.27	4.27	29.90	1 971.4	179.00	0.06730	562	716
429-AL 1/56-ST1 A	484.5	54	7	3.18	3.18	28.60	1 620.8	131.92	0.06740	551	700
477-AL1/111-ST1A	588.5	30	7	4.50	4.50	31.50	2 189.5	198.80	0.06060	596	762
476-AL 1162-ST 1A	537.7	54	7	3.35	3.35	30.20	1 798.8	146.40	0.06080	584	744
528-AL 1/69-ST1A	597.0	54	7	3.53	3.53	31.80	1 997.3	159.92	0.05470	618	792

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST1A

(Used in Italy)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
42-AL 1/7-ST1A	49.5	6	1	3.00	3.00	9.00	171	15.27	0.67570	137	164
68-AL 1/39-ST1A	107.2	12	7	2.68	2.68	13.40	496	56.52	0.42660	185	225
128-AL 1/21-ST1A	148.5	26	7	2.50	1.95	15.90	516	46.79	0.22630	280	344
191-AL 1/31 -ST1A	222.3	26	7	3.06	2.38	19.40	772	67.05	0.15100	354	439
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973	92.46	0.13630	377	470
265-AL 1/43-ST1A	307.8	26	7	3.60	2.80	22.80	1 068.0	91.48	0.10910	427	533
349-AL 1/79-ST1A	428.2	30	19	3.85	2.30	26.90	1 585.7	145.87	0.08280	501	633
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1 442.5	121.30	0.07580	516	653
416-AL 1193-ST 1 A	508.9	30	19	4.20	2.50	29.30	1 881.8	172.82	0.06960	552	702
434-AL 1/56-ST1 A	490.6	54	7	3.20	3.20	28.80	1 641.3	133.59	0.06660	555	705
520-AL 1 /66-ST1 A	585.3	54	19	3.50	2.10	31.50	1 952.1	162.72	0.05560	613	784
629-AL 1/79-ST1A	707.6	54	19	3.85	2.30	34.60	2 356.6	190.58	0.04600	679	876
748-AL 1/93-ST1A	841.4	54	19	4.20	2.50	37.70	2 799.3	226.03	0.03860	746	969
859-AL 1/109-ST1A	967.6	54	19	4.50	2.70	40.50	3 226.9	261.43	0.03370	800	1048
1657-AL 1/209-ST1A	1 865.4	150	37	3.75	2.68	56.30	6 222.4	503.01	0.01750	1106	1511

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST3D

(Used in Italy)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
42-AL 1 /7 -ST3D	49.5	6	1	3.00	3.00	9.00	171	14.99	0.67570	137	164
68-AL 1/39-ST30	107.2	12	7	2.68	2.68	13.40	496	59.29	0.42660	185	225
128-AL 1/21-ST30	148.5	26	7	2.50	1.95	15.90	516	47.63	0.22630	280	344
191-AL 1/31-ST3D	222.3	26	7	3.06	2.38	19.40	772	69.23	0.15100	354	439
212-AL 1/49-ST30	261.5	30	7	3.00	3.00	21.00	973	90.48	0.13630	377	470
265-AL 1/43-ST30	307.8	26	7	3.60	2.80	22.80	1 068.0	89.76	0.10910	427	533
349-AL 1/79-ST30	428.2	30	19	3.85	2.30	26.90	1 585.7	151.40	0.08280	501	633
382-AL 1/49-ST30	431.2	54	7	3.00	3.00	27.00	1 442.5	119.32	0.07580	516	653
416-AL 1 /93-ST3D	508.9	30	19	4.20	2.50	29.30	1 881.8	179.35	0.06960	552	702
434-AL 1/56-ST30	490.6	54	7	3.20	3.20	28.80	1 641.3	133.59	0.06660	555	705
520-AL 1/66-ST3D	585.3	54	19	3.50	2.10	31.50	1 952. 1	165.35	0.05560	613	784
629-AL 1/79-ST3D	707.6	54	19	3.85	2.30	34.60	2 356.6	196. 10	0.04600	679	876
748-AL 1/93-ST30	841.4	54	19	4.20	2.50	37.70	2 799.3	232.55	0.03860	746	969
859-AL 1/109-ST30	967.6	54	19	4.50	2.70	40.50	3 226.9	269.04	0.03370	800	1048
1657-AL 1/209-ST30	1865.4	150	37	3.75	2.68	56.30	6 222.4	517.62	0.01750	1106	1511

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/ST4A

(Used in Italy)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
42-AL 117-ST 4A	49.5	6	1	3.00	3.00	9.00	171	16.22	0.67570	137	164
68-AL 1/39-ST4A	107.2	12	7	2.68	2.68	13.40	496	61.85	0.42660	185	225
128-AL 1/21-ST4A	148.5	26	7	2.50	1.95	15.90	516	48.99	0.22630	280	344
191-AL 1/31-ST4A	222.3	26	7	3.06	2.38	19.40	772	71.25	0.15100	354	439
212-AL 1/49-ST4A	261.5	30	7	3.00	3.00	21.00	973	99.14	0.13630	377	470
265-AL 1/43-ST4A	307.8	26	7	3.60	2.80	22.80	1 068.0	97.30	0.10910	427	533
349-AL 1 /79-ST4A	428.2	30	19	3.85	2.30	26.90	1 585.7	156.53	0.08280	501	633
382-AL 1/d9-ST4A	431.2	54	7	3.00	3.00	27.00	1 442.5	127.98	0.07580	516	653
416-AL 1/93-ST4A	508.9	30	19	4.20	2.50	29.30	1 881.8	185.42	0.06960	552	702
434-AL 1/56-ST4A	490.6	54	7	3.20	3.20	28.80	1 641.3	140.62	0.06660	555	705
520-AL 1/66-ST4A	585.3	54	19	3.50	2.10	31.50	1 952.1	169.63	0.05560	613	784
629-AL 1/79-ST4A	707.6	54	19	3.85	2.30	34.60	2 356.6	201.23	0.04600	679	876
748-AL 1/93-ST4A	841.4	54	19	4.20	2.50	37.70	2 799.3	238.62	0.03860	746	969
859-AL 1/109-ST4A	967.6	54	19	4.50	2.70	40.50	3 226.9	276. 11	0.03370	800	1048
165 7 -AL 11209-S T 4A	1 865.4	150	37	3.75	2.68	56.30	6 222.4	531. 19	0.01750	1106	1511

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.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16-A1/S1A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.24	1.79300	76	90
25-A1/S1A-6/1	29.2	6	1	2.30	2.30	6.91	101	9.38	1.14800	100	119
40-A1/S1A-6/1	46.7	6	1	2.91	2.91	8.74	162	14.60	0.71740	132	158
63-A1/S1A-6/1	73.5	6	1	3.66	3.66	11.00	255	22.30	0.45550	173	209
100-A1/S1A-6/1	116.7	6	1	4.61	4.61	13.80	405	34.80	0.28690	227	277
125-A1/S1A-18/1	131.9	18	1	2.97	2.97	14.90	399	29.80	0.23040	275	336
125-A1/S1A-26/7	145.4	26	7	2.47	1.92	15.70	505	46.90	0.23100	277	339
160-A1/S1A-18/1	168.9	18	1	3.36	3.36	16.80	510	37.00	0.18000	317	390
160-A1/S1A-26/7	186.1	26	7	2.80	2.18	17.70	646	58.50	0.18050	320	394
200-A1/S1A-18/1	211.1	18	1	3.76	3.76	18.80	638	45.20	0.14400	361	446
200-A1/S1A-26/7	232.6	26	7	3.13	2.43	19.80	808	71.10	0.14440	363	451
250-A1/S1A-22/7	274.6	22	7	3.80	2.11	21.60	882	70.00	0.11540	412	513
250-A1/S1A-26/7	290.7	26	7	3.50	2.72	22.20	1010	88.90	0.11550	413	516
315-A1/S1A-45/7	336.8	45	7	2.99	1.99	23.90	1042	80.60	0.09173	462	580
315-A1/S1A-26/7	366.3	26	7	3.93	3.05	24.90	1272	108.00	0.09167	471	592
400-A1/S1A-45/7	427.7	45	7	3.36	2.24	26.90	1323	100.00	0.07224	528	668
400-A1/S1A-54/7	451.9	54	7	3.07	3.07	27.60	1513	125.00	0.07231	530	671
450-A1/S1A-45/7	481.1	45	7	3.57	2.38	28.50	1488	112.00	0.06421	564	716
450-A1/S1A-54/7	508.3	54	7	3.26	3.26	29.30	1703	141.00	0.06427	566	720

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S2A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16-A1/S2A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.61	1.79300	76	90
25-A1/S2A-6/1	29.2	6	1	2.30	2.30	6.91	101	9.96	1.14800	100	119
40-A1/S2A-6/1	46.7	6	1	2.91	2.91	8.74	162	15.50	0.71740	132	158
63-A1/S2A-6/1	73.5	6	1	3.66	3.66	11.00	255	23.00	0.45550	173	209
100-A1/S2A-6/1	116.7	6	1	4.61	4.61	13.80	405	36.00	0.28690	227	277
125-A1/S2A-18/1	131.9	18	1	2.97	2.97	14.90	399	30.80	0.23040	275	336
125-A1/S2A-26/7	145.4	26	7	2.47	1.92	15.70	505	49.80	0.23100	277	339
160-A1/S2A-18/1	168.9	18	1	3.36	3.36	16.80	510	38.20	0.18000	317	390
160-A1/S2A-26/7	186.1	26	7	2.80	2.18	17.70	646	62.10	0.18050	320	394
200-A1/S2A-18/1	211.1	18	1	3.76	3.76	18.80	638	46.00	0.14400	361	446
200-A1/S2A-26/7	232.6	26	7	3.13	2.43	19.80	808	75.70	0.14440	363	451
250-A1/S2A-22/7	274.6	22	7	3.80	2.11	21.60	882	73.40	0.11540	412	513
250-A1/S2A-26/7	290.7	26	7	3.50	2.72	22.20	1010	94.60	0.11550	413	516
315-A1/S2A-45/7	336.8	45	7	2.99	1.99	23.90	1042	83.70	0.09173	462	580
315-A1/S2A-26/7	366.3	26	7	3.93	3.05	24.90	1272	116.00	0.09167	471	592
400-A1/S2A-45/7	427.7	45	7	3.36	2.24	26.90	1323	104.00	0.07224	528	668
400-A1/S2A-54/7	451.9	54	7	3.07	3.07	27.60	1513	132.00	0.07231	530	671
450-A1/S2A-45/7	481.1	45	7	3.57	2.38	28.50	1488	116.00	0.06421	564	716
450-A1/S2A-54/7	508.3	54	7	3.26	3.26	29.30	1703	149.00	0.06427	566	720
500-A1/S2A-45/7	534.6	45	7	3.76	2.51	30.10	1653	127.00	0.05779	598	762
500-A1/S2A-54/7	564.8	54	7	3.43	3.43	30.90	1892	165.00	0.05785	600	766
560-A1/S2A-45/7	598.7	45	7	3.98	2.65	31.80	1852	142.00	0.05160	636	814
560-A1/S2A-54/19	630.9	54	19	3.63	2.18	32.70	2108	188.00	0.05165	638	819
630-A1/S2A-45/7	673.6	45	7	4.22	2.81	33.80	2083	160.00	0.04586	678	873
630-A1/S2A-54/19	709.8	54	19	3.85	2.31	34.70	2371	206.00	0.04591	680	877
710-A1/S2A-45/7	759.1	45	7	4.48	2.99	35.90	2348	180.00	0.04070	722	935

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S2A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
710-A1/S2A-54/19	799.9	54	19	4.09	2.45	36.80	2672	232.00	0.04074	725	940
800-A1/S2A-72/7	834.6	72	7	3.76	2.51	37.60	2485	176.00	0.03615	776	1009
800-A1/S2A-84/7	866.7	84	7	3.48	3.48	38.30	2738	219.00	0.03618	779	1014
800-A1/S2A-54/19	901.3	54	19	4.34	2.61	39.10	3011	262.00	0.03615	772	1007
900-A1/S2A-72/7	938.9	72	7	3.99	2.66	39.90	2796	198.00	0.03213	824	1078
900-A1/S2A-84/7	975.0	84	7	3.69	3.69	40.60	3080	241.00	0.03216	827	1084
1000-A1/S2A-72/7	1043.0	72	7	4.21	2.80	42.10	3106	220.00	0.02892	868	1143
1120-A1/S2A-72/19	1167.0	72	19	4.45	1.78	44.50	3472	247.00	0.02582	917	1215
1120-A1/S2A-84/19	1211.0	84	19	4.12	2.47	45.30	3819	302.00	0.02584	922	1223
1250-A1/S2A-72/19	1303.0	72	19	4.70	1.88	47.00	3875	275.00	0.02314	965	1287
1250-A1/S2A-84/19	1352.0	84	19	4.35	2.61	47.90	4262	337.00	0.02315	971	1297

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S3A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16-A1/S3A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.99	1.79300	76	90
25-A1/S3A-6/1	29.2	6	1	2.30	2.30	6.91	101	10.50	1.14800	100	119
40-A1/S3A-6/1	46.7	6	1	2.91	2.91	8.74	162	16.40	0.71740	132	158
63-A1/S3A-6/1	73.5	6	1	3.66	3.66	11.00	255	24.80	0.25490	231	279
100-A1/S3A-6/1	116.7	6	1	4.61	4.61	13.80	405	38.80	0.28690	227	277
125-A1/S3A-18/1	131.9	18	1	2.97	2.97	14.90	399	31.70	0.23040	275	336
125-A1/S3A-26/7	145.4	26	7	2.47	1.92	15.70	505	52.60	0.23100	277	339
160-A1/S3A-18/1	168.9	18	1	3.36	3.36	16.80	510	39.50	0.18000	317	390
160-A1/S3A-26/7	186.1	26	7	2.80	2.18	17.70	646	65.80	0.18050	320	394
200-A1/S3A-18/1	211.1	18	1	3.76	3.76	18.80	638	47.90	0.14400	361	446
200-A1/S3A-26/7	232.6	26	7	3.13	2.43	19.80	808	79.90	0.14440	363	451
250-A1/S3A-22/7	274.6	22	7	3.80	2.11	21.60	882	76.90	0.11540	412	513
250-A1/S3A-26/7	290.7	26	7	3.50	2.72	22.20	1010	99.90	0.11550	413	516
315-A1/S3A-45/7	336.8	45	7	2.99	1.99	23.90	1042	86.70	0.09173	462	580
315-A1/S3A-26/7	366.3	26	7	3.93	3.05	24.90	1272	123.00	0.09167	471	592
400-A1/S3A-45/7	427.7	45	7	3.36	2.24	26.90	1323	108.00	0.07224	528	668
400-A1/S3A-54/7	451.9	54	7	3.07	3.07	27.60	1513	140.00	0.07231	530	671
450-A1/S3A-45/7	481.1	45	7	3.57	2.38	28.50	1488	120.00	0.06421	564	716
450-A1/S3A-54/7	508.3	54	7	3.26	3.26	29.30	1703	157.00	0.06427	566	720
500-A1/S3A-45/7	534.6	45	7	3.76	2.51	30.10	1653	131.00	0.05779	598	762
500-A1/S3A-54/7	564.8	54	7	3.43	3.43	30.90	1892	174.00	0.05785	600	766
560-A1/S3A-45/7	598.7	45	7	3.98	2.65	31.80	1852	147.00	0.05160	636	814
560-A1/S3A-54/19	630.9	54	19	3.63	2.18	32.70	2108	198.00	0.05165	638	819
630-A1/S3A-45/7	673.6	45	7	4.22	2.81	33.80	2083	165.00	0.04586	678	873
630-A1/S3A-54/19	709.8	54	19	3.85	2.31	34.70	2371	217.00	0.04591	680	877
710-A1/S3A-45/7	759.1	45	7	4.48	2.99	35.90	2348	186.00	0.04070	722	935

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S3A

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
710-A1/S3A-54/19	799.9	54	19	4.09	2.45	36.80	2672	244.00	0.04074	725	940
800-A1/S3A-72/7	834.6	72	7	3.76	2.51	37.60	2485	181.00	0.03615	776	1009
800-A1/S3A-84/7	866.7	84	7	3.48	3.48	38.30	2738	228.00	0.03618	779	1014
800-A1/S3A-54/19	901.3	54	19	4.34	2.61	39.10	3011	275.00	0.03615	772	1007
900-A1/S3A-72/7	938.9	72	7	3.99	2.66	39.90	2796	203.00	0.03213	824	1078
900-A1/S3A-84/7	975.0	84	7	3.69	3.69	40.60	3080	254.00	0.03216	827	1084
1000-A1/S3A-72/7	1043.0	72	7	4.21	2.80	42.10	3106	226.00	0.02892	868	1143
1120-A1/S3A-72/19	1167.0	72	19	4.45	1.78	44.50	3472	253.00	0.02582	917	1215
1120-A1/S3A-84/19	1211.0	84	19	4.12	2.47	45.30	3819	313.00	0.02584	922	1223
1250-A1/S3A-72/19	1303.0	72	19	4.70	1.88	47.00	3875	283.00	0.02314	965	1287
1250-A1/S3A-84/19	1352.0	84	19	4.35	2.61	47.90	4262	350.00	0.02315	971	1297

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/m^2 Solar radiation

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Conductor Name	Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Wren	8-A1/S1A-6/1	9.8	6	1	1.33	1.33	4.00	34	3.31	3.42800	52	61
Warbler	11-A1/S1A-6/1	12.3	6	1	1.50	1.50	4.49	43	4.17	2.72000	59	70
Turkey	13-A1/S1A-6/1	15.5	6	1	1.68	1.68	5.04	54	5.19	2.15700	68	81
Thrush	17-A1/S1A-6/1	19.6	6	1	1.89	1.89	5.66	68	6.54	1.71100	79	93
Swan	21-A1/S1A-6/1	24.7	6	1	2.12	2.12	6.36	86	8.14	1.35700	90	107
Swallow	27-A1/S1A-6/1	31.1	6	1	2.38	2.38	7.14	108	10.00	1.07600	104	124
Sparrow	34-A1/S1A-6/1	39.2	6	1	2.67	2.67	8.01	136	12.40	0.85320	119	142
Robin	42-A1/S1A-6/1	49.5	6	1	3.00	3.00	9.00	171	15.50	0.67660	137	164
Raven	54-A1/S1A-6/1	62.4	6	1	3.37	3.37	10.10	216	18.90	0.53620	157	189
Quail	67-A1/S1A-6/1	78.7	6	1	3.78	3.78	11.30	273	23.50	0.42550	180	218
Pigeon	85-A1/S1A-6/1	99.2	6	1	4.25	4.25	12.70	344	29.60	0.33750	206	251
Penguin	107-A1/S1A-6/1	125.1	6	1	4.77	4.77	14.30	433	37.40	0.26770	237	289
Partridge	135-A1/S1A-26/7	157.2	26	7	2.57	2.00	16.30	546	50.10	0.21360	290	356
Owl	135-A1/S1A-6/7	152.7	6	7	5.36	1.79	16.10	508	42.10	0.21230	271	332
Waxwing	135-A1/S1A-18/1	142.7	18	1	3.09	3.09	15.50	431	31.20	0.21300	288	352
Piper	152-A1/S1A-30/7	187.5	30	7	2.54	2.54	17.80	697	67.80	0.19000	312	384
Ostrich	152-A1/S1A-26/7	176.8	26	7	2.73	2.12	17.30	614	56.30	0.19000	310	382
Phoebe	152-A1/S1A-18/1	160.5	18	1	3.28	3.28	16.40	485	35.10	0.18950	308	378
Oriole	170-A1/S1A-30/7	210.2	30	7	2.69	2.69	18.80	782	76.00	0.16940	333	412
Linnet	170-A1/S1A-26/7	198.2	26	7	2.89	2.25	18.30	688	62.30	0.16940	332	409
Merlin	170-A1/S1A-18/1	179.9	18	1	3.47	3.47	17.40	544	39.40	0.16900	329	405
Lark	201-A1/S1A-30/7	248.4	30	7	2.92	2.92	20.50	924	88.80	0.14340	367	455
Ibis	201-A1/S1A-26/7	234.2	26	7	3.14	2.44	19.90	813	71.60	0.14340	365	453
Chickadee	201-A1/S1A-18/1	212.6	18	1	3.77	3.77	18.90	642	45.50	0.14300	362	448
Hen	242-A1/S1A-30/7	298.1	30	7	3.20	3.20	22.40	1109	103.00	0.11950	407	508
Hawk	242-A1/S1A-26/7	281.1	26	7	3.44	2.68	21.80	974	86.00	0.11950	405	505
Toucan	242-A1/S1A-22/7	265.4	22	7	3.74	2.08	21.20	853	68.90	0.11930	404	503
Pelican	242-A1/S1A-18/1	255.1	18	1	4.13	4.13	20.70	770	54.60	0.11920	402	500
Heron	253-A1/S1A-30/7	312.5	30	7	3.28	3.28	23.00	1162	108.00	0.11400	418	523
Eagle	282-A1/S1A-30/7	347.8	30	7	3.46	3.46	24.20	1293	120.00	0.10240	444	557
Dove	282-A1/S1A-26/7	327.9	26	7	3.72	2.89	23.50	1136	100.00	0.10240	442	554
Sapsucker	282-A1/S1A-22/7	309.7	22	7	4.04	2.24	22.90	995	78.90	0.10230	441	551

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Conductor Name	Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Duck	307-A1/S1A-54/7	346.3	54	7	2.69	2.69	24.20	1159	101.00	0.09435	456	573
Egret	322-A1/S1A-30/19	395.7	30	19	3.70	2.22	25.90	1467	141.00	0.08960	479	604
Grosbeak	322-A1/S1A-26/7	374.8	26	7	3.97	3.09	25.20	1301	111.00	0.08960	477	600
Goose	322-A1/S1A-54/7	364.1	54	7	2.76	2.76	24.80	1219	104.00	0.08975	469	590
Goldfinch	322-A1/S1A-22/7	353.9	22	7	4.32	2.40	24.50	1137	89.30	0.08949	476	597
Gull	338-A1/S1A-54/7	381.5	54	7	2.82	2.82	25.40	1277	109.00	0.08563	482	607
Redwing	363-A1/S1A-30/19	445.2	30	19	3.92	2.35	27.50	1650	154.00	0.07964	512	648
Starling	363-A1/S1A-26/7	421.6	26	7	4.21	3.28	26.70	1463	125.00	0.07964	510	644
Crow	363-A1/S1A-54/7	409.4	54	7	2.92	2.92	26.30	1370	117.00	0.07978	502	633
Mallard	403-A1/S1A-30/19	658.0	30	19	4.13	4.13	37.20	3113	347.00	0.07168	559	725
Drake	403-A1/S1A-26/7	468.4	26	7	4.44	3.45	28.10	1626	139.00	0.07168	541	686
Condor	403-A1/S1A-54/7	455.0	54	7	3.08	3.08	27.70	1523	126.00	0.07180	532	674
Macaw	403-A1/S1A-42/7	423.5	42	7	3.49	1.94	26.80	1276	92.70	0.07173	530	670
Crane	443-A1/S1A-54/7	500.5	54	7	3.23	3.23	29.10	1675	138.00	0.06527	561	713
Canary	456-A1/S1A-54/7	515.2	54	7	3.28	3.28	29.50	1725	143.00	0.06342	570	726
Cardinal	483-A1/S1A-54/7	546.2	54	7	3.38	3.38	30.40	1829	151.00	0.05983	589	751
Phoenix	483-A1/S1A-42/7	509.5	42	7	3.83	2.13	29.50	1541	110.00	0.05977	587	747
Curlew	524-A1/S1A-54/7	591.4	54	7	3.51	3.51	31.60	1979	164.00	0.05523	615	787
Snowbird	524-A1/S1A-42/7	550.5	42	7	3.98	2.21	30.50	1658	118.00	0.05518	612	781
Finch	564-A1/S1A-54/19	635.5	54	19	3.65	2.19	32.80	2122	180.00	0.05128	641	822
Beaumont	564-A1/S1A-42/7	593.1	42	7	4.13	2.30	31.70	1787	126.00	0.05123	638	816
Grackle	604-A1/S1A-54/19	681.1	54	19	3.77	2.27	34.00	2275	190.00	0.04787	665	856
Pheasant	645-A1/S1A-54/19	726.2	54	19	3.90	2.34	35.10	2425	200.00	0.04487	688	889
Scissortail	645-A1/S1A-42/7	677.8	42	7	4.42	2.46	33.90	2042	144.00	0.04483	685	882
Martin	685-A1/S1A-54/19	771.5	54	19	4.02	2.41	36.20	2575	212.00	0.04223	711	921
—	685-A1/S1A-42/7	720.0	42	7	4.56	2.53	34.90	2169	153.00	0.04219	707	914
Plover	725-A1/S1A-54/19	816.9	54	19	4.13	2.48	37.20	2727	224.00	0.03989	733	952
—	725-A1/S1A-42/7	762.6	42	7	4.69	2.61	36.00	2298	162.00	0.03985	729	944
Parrot	765-A1/S1A-54/19	862.4	54	19	4.25	2.55	38.20	2879	237.00	0.03779	754	982
—	765-A1/S1A-42/7	804.6	42	7	4.82	2.67	36.90	2423	171.00	0.03775	750	974
Falcon	806-A1/S1A-54/19	908.1	54	19	4.36	2.62	39.30	3033	250.00	0.03590	775	1012
-	805-A1/S1A-48/7	876.9	48	7	4.62	3.60	38.50	2785	211.00	0.03586	772	1007
-	806-A1/S1A-72/7	840.6	72	7	3.77	2.52	37.80	2503	173.00	0.03590	779	1013

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Extra-High-Strength Strandings

Conductor Name	Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Bantam	7-A1/S1A-3/4	15.5	3	4	1.68	1.68	5.04	88	11.70	4.31900	48	57
Magpie	11-A1/S1A-3/4	24.7	3	4	2.12	2.12	6.35	141	18.50	2.71300	64	76
Shrike	17-A1/S1A-3/4	39.2	3	4	2.67	2.67	8.02	223	28.60	1.70500	84	101
Snipe	27-A1/S1A-3/4	62.5	3	4	3.37	3.37	10.10	355	43.80	1.07200	111	134
Loon	34-A1/S1A-3/4	78.6	3	4	3.78	3.78	11.30	447	54.90	0.85120	127	154
Grouse	41-A1/S1A-8/1	54.7	8	1	2.54	4.24	9.32	221	22.80	0.70640	135	162
Petrel	52-A1/S1A-12/7	81.7	12	7	2.34	2.34	11.70	377	43.90	0.55510	159	192
Leghorn	68-A1/S1A-12/7	108.0	12	7	2.69	2.69	13.40	498	57.60	0.41980	187	227
Leghorn	81-A1/S1A-12/7	127.4	12	7	2.92	2.92	14.60	588	67.50	0.35540	206	252
Dotterel	90-A1/S1A-12/7	141.8	12	7	3.08	3.08	15.40	654	72.60	0.31950	219	268
Dorking	97-A1/S1A-12/7	153.0	12	7	3.20	3.20	16.00	705	78.40	0.29620	229	281
Auk	103-A1/S1A-8/7	130.7	8	7	4.05	2.25	14.80	500	49.50	0.27840	233	285
Brahma	103-A1/S1A-16/19	194.8	16	19	2.86	2.48	18.10	1002	123.00	0.27810	241	298
Cochin	107-A1/S1A-12/7	169.5	12	7	3.37	3.37	16.90	782	86.90	0.26740	243	299

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Canadian Diameter-Based Sizes

Conductor Name	Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
-	237-A1/S1A-26/7	276.1	26	7	3.41	2.65	21.60	958	84.40	0.12160	401	500
-	251-A1/S1A-22/7	275.5	22	7	3.81	2.12	21.60	885	70.30	0.11500	412	514
-	264-A1/S1A-18/1	278.5	18	1	4.32	4.32	21.60	841	59.70	0.10920	423	527
Abitibi	264-A1/S1A-18/7	275.2	18	7	4.32	1.44	21.60	816	56.90	0.10920	423	527
-	266-A1/S1A-26/7	309.5	26	7	3.61	2.81	22.90	1075	94.70	0.10850	428	535
-	282-A1/S1A-22/7	309.6	22	7	4.04	2.24	22.90	994	78.80	0.10230	441	551
-	295-A1/S1A-18/1	311.7	18	1	4.57	4.57	22.90	942	66.80	0.09755	451	564
-	297-A1/S1A-18/7	309.2	18	7	4.58	1.52	22.90	917	63.80	0.09712	452	565
-	296-A1/S1A-26/7	344.6	26	7	3.81	2.96	24.10	1196	103.80	0.09741	455	571
-	314-A1/S1A-22/7	344.2	22	7	4.26	2.36	24.10	1105	86.70	0.09198	468	587
Peace River	317-A1/S1A-48/7	344.9	48	7	2.90	2.25	24.10	1094	88.10	0.09114	464	582
-	327-A1/S1A-42/7	344.1	42	7	3.15	1.75	24.10	1037	75.30	0.08828	471	592
-	328-A1/S1A-26/7	381.9	26	7	4.01	3.12	25.40	1326	113.00	0.08794	482	607
Grand Rapid	347-A1/S1A-22/7	380.9	22	7	4.48	2.49	25.40	1224	96.10	0.08317	496	624
-	361-A1/S1A-42/7	380.0	42	7	3.31	1.84	25.40	1145	83.20	0.07995	499	628
-	362-A1/S1A-26/7	421.1	26	7	4.21	3.28	26.70	1462	125.00	0.07978	509	644
-	383-A1/S1A-22/7	420.8	22	7	4.71	2.61	26.70	1351	106.00	0.07524	524	662
-	399-A1/S1A-42/7	420.0	42	7	3.48	1.93	26.70	1265	91.90	0.07233	527	666
-	397-A1/S1A-26/7	461.8	26	7	4.41	3.43	27.90	1603	137.00	0.07271	536	680
-	423-A1/S1A-48/7	460.5	48	7	3.35	2.61	27.90	1463	115.00	0.06830	546	691
Les Boules	439-A1/S1A-42/7	461.9	42	7	3.65	2.02	27.90	1391	101.00	0.06575	556	705
-	434-A1/S1A-26/7	504.8	26	7	4.61	3.59	29.20	1753	150.00	0.06654	564	717
-	445-A1/S1A-54/7	503.3	54	7	3.24	3.25	29.20	1686	140.00	0.06496	563	716
-	462-A1/S1A-48/7	502.8	48	7	3.50	2.73	29.20	1597	125.00	0.06257	573	728
-	479-A1/S1A-42/7	503.5	42	7	3.81	2.12	29.20	1517	108.00	0.06034	583	742
-	474-A1/S1A-26/7	551.3	26	7	4.82	3.74	30.50	1912	163.00	0.06086	592	755
-	487-A1/S1A-54/7	550.6	54	7	3.39	3.39	30.50	1843	152.00	0.05934	591	755
-	505-A1/S1A-48/7	549.3	48	7	3.66	2.84	30.50	1743	136.00	0.05722	602	768

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - CAN/CSA-C61089-11 - TYPE A1/S1A

Canadian Diameter-Based Sizes

Conductor Name	Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
		(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Carillon	523-A1/S1A-42/7	549.4	42	7	3.98	2.21	30.50	1655	118.00	0.05530	612	781
-	571-A1/S1A-54/19	643.5	54	19	3.67	2.20	33.00	2147	182.00	0.05063	645	828
Gatineau	591-A1/S1A-48/7	643.3	48	7	3.96	3.08	33.00	2042	155.00	0.04888	655	842
-	613-A1/S1A-42/7	644.2	42	7	4.31	2.39	33.00	1940	137.00	0.04715	667	857
-	662-A1/S1A-54/19	745.5	54	19	3.95	2.37	35.60	2489	205.00	0.04371	698	903
Bersfort	687-A1/S1A-48/7	748.0	48	7	4.27	3.32	35.60	2374	180.00	0.04204	711	919
-	710-A1/S1A-42/7	746.8	42	7	4.64	2.58	35.60	2250	159.00	0.04069	721	933
-	787-A1/S1A-48/7	857.0	48	7	4.57	3.56	38.10	2722	207.00	0.03670	763	994
-	794-A1/S1A-84/7	860.2	84	7	3.47	3.46	38.10	2715	207.00	0.03643	776	1010
-	821-A1/S1A-72/7	856.3	72	7	3.81	2.54	38.10	2549	176.00	0.03523	786	1024
-	898-A1/S1A-84/7	973.6	84	7	3.69	3.70	40.60	3076	236.00	0.03222	826	1083
-	932-A1/S1A-72/7	972.5	72	7	4.06	2.71	40.60	2895	200.00	0.03103	839	1099
-	1019-A1/S1A-84/7	1103.0	84	7	3.93	3.92	43.20	3	261.00	0.02840	880	1161
-	1055-A1/S1A-72/7	1101.0	72	7	4.32	2.88	43.20	3	226.00	0.02740	891	1177
-	077-A1/S1A-84/19	1165.0	84	19	4.04	2.43	44.50	4	278.00	0.02688	904	1197
-	1115-A1/S1A-72/19	1162.0	72	19	4.44	1.78	44.50	3	239.00	0.02594	915	1212

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ABNT NBR 7270

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
TURKEY	13.30/ 2.22	6	1	1.68	1.68	5.04	54	5.31	2.15700	68	81
THRUSH	16.83/2.81	6	1	1.89	1.89	5.67	68	6.65	1.70460	79	93
SWAN	21.18/ 3.53	6	1	2.12	2.12	6.36	86	8.30	1.35450	90	107
SWALLOW	26.69/ 4.45	6	1	2.38	2.38	7.14	108	10.23	1.07490	104	124
SPARROW	33.59/ 5.60	6	1	2.67	2.67	8.01	136	12.65	0.85410	119	142
ROBIN	42.41/ 7.07	6	1	3.00	3.00	9.00	171	15.85	0.67640	137	164
RAVEN	53.52/ 8.92	6	1	3.37	3.37	10.11	216	19.46	0.53600	157	189
QUAIL	67.33/ 11.22	6	1	3.78	3.78	11.34	272	23.53	0.42610	180	218
PIGEON	85.12/14.19	6	1	4.25	4.25	12.75	344	29.42	0.33700	207	251
PENGUIN	107.22/17.87	6	1	4.77	4.77	14.31	433	37.06	0.26760	237	289
WAXWING	134.98/ 7.50	18	1	3.09	3.09	15.45	431	31.22	0.21360	287	352
PARTRIDGE	134.87/ 21.99	26	7	2.57	2.00	16.28	546	50.11	0.21480	289	355
OSTRICH	152.19/ 24.71	26	7	2.73	2.12	17.28	615	56.41	0.19040	310	381
MERLIN	170.22/ 9.46	18	1	3.47	3.47	17.45	543	39.37	0.16940	329	405
LINNET	170.55/ 27.83	26	7	2.89	2.25	18.31	690	62.91	0.16990	331	409
ORIOLE	170.50/ 39.78	30	7	2.69	2.69	18.83	784	77.26	0.17030	332	411
CHICKADEE	200.93/ 11.16	18	1	3.77	3.77	18.85	641	45.13	0.14350	362	447
BRANT	201.56/ 26.13	24	7	3.27	2.18	19.62	763	65.10	0.14370	364	451
IBIS	201.34/ 32.73	26	7	3.14	2.44	19.88	814	72.42	0.14390	364	452
LARK	200.90/ 46.88	30	7	2.92	2.92	20.44	924	90.49	0.14460	365	453
PELICAN	242.31/ 13.46	18	1	4.14	4.14	20.70	773	53.50	0.11900	403	501
FLICKER	241.58/ 31.40	24	7	3.58	2.39	21.49	915	76.55	0.11990	404	503
HAWK	241.65/ 39.49	26	7	3.44	2.68	21.80	978	87.18	0.11990	405	504
HEN	241.27/ 56.30	30	7	3.20	3.20	22.40	1110	105.60	0.12040	405	506
OSPREY	282.47/ 15.89	18	1	4.47	4.47	22.35	901	62.37	0.10210	440	549
PARAKEET	282.31/ 36.60	24	7	3.87	2.58	23.22	1068	88.29	0.10260	441	552
DOVE	282.59/ 45.92	26	7	3.72	2.89	23.55	1142	100.80	0.10250	442	554

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

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ABNT NBR 7270

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
EAGLE	282.07/ 65.82	30	7	3.46	3.46	24.22	1298	123.50	0.10300	443	556
PEACOCK	306.13/ 39.78	24	7	4.03	2.69	24.19	1159	95.86	0.09460	462	580
SQUAB	305.83/ 49.81	26	7	3.87	3.01	24.51	1236	108.10	0.09470	463	581
WOOD DUCK	307.06/ 71.65	30	7	3.61	3.61	25.27	1413	128.70	0.09460	465	585
TEAL	307.06/ 69.62	30	19	3.61	2.16	25.24	1398	133.10	0.09460	465	585
DUCK	306.89/ 39.78	54	7	2.69	2.69	24.21	1161	98.87	0.09440	456	573
KINGBIRD	323.01/ 17.95	18	1	4.78	4.78	23.90	1030	71.33	0.08930	474	595
ROOK	323.07/ 41.88	24	7	4.14	2.76	24.84	1222	101.00	0.08970	476	598
GROSBEAK	321.84/ 52.49	26	7	3.97	3.09	25.15	1302	111.90	0.09000	476	599
SCOTER	322.56/ 75.26	30	7	3.70	3.70	25.90	1484	135.20	0.09000	478	603
EGRET	322.56/ 73.54	30	19	3.70	2.22	25.90	1472	140.30	0.09000	478	603
GOOSE	323.07/ 41.88	54	7	2.76	2.76	24.84	1222	104.10	0.08970	470	590
FLAMINGO	337.27/ 43.72	24	7	4.23	2.82	25.38	1276	105.50	0.08590	488	614
GANNET	338.26/ 54.90	26	7	4.07	3.16	25.76	1366	117.30	0.08570	489	617
STILT	363.27/ 46.88	24	7	4.39	2.92	26.32	1373	113.40	0.07980	508	641
STARLING	361.93/ 59.15	26	7	4.21	3.28	26.68	1464 .8	126.00	0.08000	509	643
REDWING	362.06/ 82.41	30	19	3.92	2.35	27.43	1651	153.70	0.08020	510	646
CUCKOO	402.33/ 52.15	24	7	4.62	3.08	27.72	1522	123.80	0.07200	538	682
DRAKE	402.56/ 65.44	26	7	4.44	3.45	28.11	1627	139.70	0.07200	540	684
MALLARD	403.84/ 91.78	30	19	4.14	2.48	28.96	1840	171.20	0.07190	542	689
TERN	403.77/ 27.83	45	7	3.38	2.25	27.03	1336	98.20	0.07180	530	671
CONDOR	402.33/ 52.15	54	7	3.08	3.08	27.72	1522	125.10	0.07200	531	673
RUDDY	455.50/ 31.67	45	7	3.59	2.40	28.74	1509	109.00	0.06360	567	721
CANARY	456.28/ 59.15	54	7	3.28	3.28	29.52	1726	141.80	0.06350	570	725
RAIL	483.95/ 33.54	45	7	3.70	2.47	29.61	1603	115.60	0.05990	586	747
CARDINAL	484.53/ 62.81	54	7	3.38	3.38	30.42	1833	150.60	0.05980	589	751
ORTOLAN	523.87/ 36.31	45	7	3.85	2.57	30.81	1735	123.30	0.05530	613	783

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ABNT NBR 7270

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
CURLEW	522.52/ 67.73	54	7	3.51	3.51	31.59	1977	162.40	0.05540	614	786
BLUEJAY	565.49/ 38.90	45	7	4.00	2.66	31.98	1871	132.70	0.05120	639	818
FINCH	565.03/ 71.57	54	19	3.65	2.19	32.85	2133	174.10	0.05150	639	821
BUNTING	605.76/ 41.88	45	7	4.14	2.76	33.12	2005	142.40	0.04780	663	852
GRACKLE	602.79/ 76.89	54	19	3.77	2.27	33.97	2280	186.40	0.04830	662	852
BITTERN	644.41/44.66	45	7	4.27	2.85	34.17	2134	151.60	0.04500	685	883
PHEASANT	645.08/ 81.71	54	19	3.90	2.34	35.10	2436	194.10	0.04510	687	887
DIOPPER	684.24/ 47.20	45	7	4.40	2.93	35.19	2264	160.70	0.04230	708	914
MARTIN	685.39/ 86.67	54	19	4.02	2.41	36.17	2587	206.10	0.04250	709	918
BOBOLINK	725.27/ 50.14	45	7	4.53	3.02	36.24	2401	170.50	0.03990	730	946
PLOVER	726.92/ 91.78	54	19	4.14	2.48	37.24	2742	218.40	0.04010	731	950
NUTHATCH	764.20/ 52.83	45	7	4.65	3.10	37.20	2530	177.60	0.03790	750	974
PARROT	766.06/ 97.03	54	19	4.25	2.55	38.25	2892	230.50	0.03800	752	979
LAPWING	807.53/ 55.60	45	7	4.78	3.18	38.22	2672	187.40	0.03590	771	1005
FALCON	806.23/ 102.43	54	19	4.36	2.62	39.26	3046	243.00	0.03610	773	1009
CHUKAR	903.18/ 73.54	84	19	3.70	2.22	40.70	3090	227.00	0.03220	827	1084
BLUEBIRD	1092.85/ 88.84	84	19	4.07	2.44	44.76	3738	268.00	0.02660	909	1204
KIWI	1099.77/ 47.52	72	7	4.41	2.94	44.10	3433	221.70	0.02650	906	1199
THRASHER	1171.42/ 63.94	76	19	4.43	2.07	45.79	3762	251.90	0.02490	935	1243
GROUSE	40.54/ 14.12	8	1	2.54	4.24	9.32	222	23.10	0.71110	134	161
PETREL	51.61 /30.10	12	7	2.34	2.34	11.70	378	46.20	0.56130	158	191
MINORCA	56.11/ 32.73	12	7	2.44	2.44	12.20	411	50.24	0.51630	166	201
LEGHORN	68.20/ 39.78	12	7	2.69	2.69	13.45	500	60.60	0.42480	186	226
GUINEA	80.36/ 46.88	12	7	2.92	2.92	14.60	589	71.18	0.36050	205	250
DOTTEREL	89.41/ 52.15	12	7	3.08	3.08	15.40	655	76.84	0.32400	218	267
DORKING	96.51/56.30	12	7	3.20	3.20	16.00	707	82.96	0.30020	228	279
BRAHMA	102.79/ 91.78	16	19	2.86	2.48	18.12	1003	126.60	0.28180	240	296
COCHIN	107.04/ 62.44	12	7	3.37	3.37	16.85	784	92.00	0.27070	242	297

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Thrasher	2312.0	1235.1	76	19	4.43	2.07	45.77	3754	252.30	0.02477	937	1245
Kiwi	2167.0	1145.7	72	7	4.41	2.94	44.07	3424	221.60	0.02642	907	1200
Bluebird	2156.0	1181.3	84	19	4.07	2.44	44.75	3732	268.32	0.02656	910	1205
Chukar	1780.0	975.9	84	19	3.70	2.22	40.69	3083	226.94	0.03216	827	1084
Falcon	1590.0	907.9	54	19	4.36	2.62	39.24	3038	242.51	0.03601	774	1010
Lapwing	1590.0	861.6	45	7	4.78	3.18	38.20	2664	187.78	0.03583	772	1005
Parrot	1510.5	861.8	54	19	4.25	2.55	38.23	2884	230.06	0.03793	753	980
Nuthatch	1510.5	818.2	45	7	4.65	3.10	37.24	2530	178.44	0.03773	752	976
Plover	1431.0	817.1	54	19	4.14	2.48	37.21	2735	218.49	0.04001	732	950
Bobolink	1431.0	775.0	45	7	4.53	3.02	36.25	2397	170.43	0.03984	730	946
Martin	1351.5	771.5	54	19	4.02	2.41	36.17	2582	206.03	0.04237	710	919
Dipper	1351.5	732.1	45	7	4.40	2.93	35.20	2582	161.08	0.04217	709	916
Pheasant	1272.0	726.4	54	19	3.90	2.34	35.10	2431	194.01	0.04501	687	888
Bittern	1272.0	688.9	45	7	4.27	2.85	34.16	2131	151.74	0.04482	686	884
Skylark	1272.0	662.6	36	1	4.78	4.78	33.43	1914	117.48	0.04457	694	892
Grackle	1192.5	680.8	54	19	3.77	2.27	33.99	2278	186.45	0.04802	664	855
Bunting	1192.5	646.1	45	7	4.14	2.76	33.07	1997	142.39	0.04778	663	852
Finch	1113.0	635.8	54	19	3.65	2.19	32.84	2128	173.99	0.05143	640	821
Bluejay	1113.0	603.2	45	7	4.00	2.66	31.98	1866	132.60	0.05118	639	819
Curlew	1033.5	591.2	54	7	3.51	3.51	31.62	1978	162.86	0.05518	615	788
Ortolan	1033.5	559.5	45	7	3.85	2.57	30.78	1731	123.26	0.05518	613	783
Tanager	1033.5	538.0	36	1	4.30	4.30	30.12	1553	95.23	0.05489	620	791
Cardinal	954.0	545.9	54	7	3.38	3.38	30.38	1826	150.40	0.05975	589	751
Rail	954.0	516.8	45	7	3.70	2.47	29.59	1598	115.25	0.05974	587	748
Catbird	954.0	496.9	36	1	4.14	4.14	28.96	1434	88.11	0.05944	594	755
Canary	900.0	515.2	54	7	3.28	3.28	29.51	1723	141.95	0.06332	571	726
Ruddy	900.0	487.4	45	7	3.59	2.40	28.73	1507	108.58	0.06334	568	722
Mallard	795.0	494.8	30	19	4.14	2.48	28.96	1836	170.87	0.07185	542	689
Condor	795.0	454.8	54	7	3.08	3.08	27.74	1521	125.48	0.07172	532	674

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

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Tern	795.0	430.6	45	7	3.38	2.25	27.00	1332	98.34	0.07170	531	671
Drake	795.0	468.6	26	7	4.44	3.45	28.14	1626	140.17	0.07165	541	686
Cuckoo	795.0	455.0	24	7	4.62	3.08	27.74	1522	124.15	0.07169	540	684
Coot	795.0	414.0	36	1	3.77	3.77	26.42	1196	74.76	0.07134	537	678
Redwing	715.5	444.9	30	19	3.92	2.35	27.46	1651	153.96	0.07988	511	647
Starling	715.5	421.6	26	7	4.21	3.28	26.70	1464	126.37	0.07964	510	644
Stilt	715.5	409.7	24	7	4.39	2.92	26.31	1370	113.47	0.07961	509	642
Gannet	666.6	392.7	26	7	4.07	3.16	25.76	1363	117.48	0.08551	490	617
Flamingo	666.6	381.7	24	7	4.23	2.82	25.40	1277	105.46	0.08545	489	616
Egret	636.0	395.8	30	19	3.70	2.22	25.88	1469	140.17	0.08982	479	603
Scoter	636.0	397.5	30	7	3.70	3.70	25.88	1481	135.27	0.09004	478	602
Grosbeak	636.0	374.7	26	7	3.97	3.09	25.15	1301	112.14	0.09004	476	599
Rook	636.0	364.1	24	7	4.14	2.76	24.82	1217	100.57	0.08959	476	599
Swift	636.0	331.1	36	1	3.38	3.38	23.62	956	61.41	0.08919	474	593
Kingbird	636.0	340.3	18	1	4.78	4.78	23.88	1027	69.86	0.08914	474	595
Teal	605.0	376.4	30	19	3.61	2.16	25.25	1397	133.49	0.09444	465	585
Wood Duck	605.0	378.0	30	7	3.61	3.61	25.25	1408	128.60	0.09444	465	585
Squab	605.0	356.3	26	7	3.87	3.01	24.54	1237	108.13	0.09425	464	582
Peacock	605.0	346.4	24	7	4.03	2.69	24.21	1159	96.12	0.09416	463	581
Eagle	556.5	347.8	30	7	3.46	3.46	24.21	1296	123.70	0.10265	444	557
Dove	556.5	327.9	26	7	3.72	2.89	23.55	1139	100.57	0.10241	442	554
Parakeet	556.5	318.6	24	7	3.87	2.58	23.22	1066	88.11	0.10237	442	553
Osprey	556.5	297.5	18	1	4.47	4.47	22.33	898	60.96	0.10194	440	549
Hen	477.0	298.1	30	7	3.20	3.20	22.43	1111	105.91	0.11975	407	508
Hawk	477.0	280.9	26	7	3.44	2.67	21.79	975	86.77	0.11956	405	505
Flicker	477.0	273.1	24	7	3.58	2.39	21.49	913	76.54	0.11944	404	504
Pelican	477.0	255.2	18	1	4.14	4.14	20.68	770	52.51	0.11887	403	501
Lark	397.5	248.4	30	7	2.92	2.92	20.47	925	90.33	0.14374	366	455
Ibis	397.5	234.0	26	7	3.14	2.44	19.89	812	72.53	0.14347	365	452

NOTE :

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Oriole	336.4	210.3	30	7	2.69	2.69	18.82	783	76.98	0.16980	333	411
Linnet	336.4	198.0	26	7	2.89	2.25	18.29	687	62.74	0.16955	331	409
Merlin	336.4	179.9	18	1	3.47	3.47	17.37	543	38.62	0.16860	330	406
Ostrich	300.0	176.7	26	7	2.73	2.12	17.27	613	56.51	0.19002	310	382
Partridge	266.8	157.2	26	7	2.57	2.00	16.31	546	50.28	0.21359	290	356
Waxwing	266.8	142.6	18	1	3.09	3.09	15.47	430	30.61	0.21272	288	352
Penguin	211.6	125.1	6	1	4.77	4.77	14.30	433	37.16	0.26668	237	289
Cochin	211.3	169.5	12	7	3.37	3.37	16.87	784	92.11	0.26969	242	298
Brahma	203.2	194.9	16	19	2.86	2.48	18.14	1004	126.37	0.28042	240	297
Dorking	190.8	153.1	12	7	3.20	3.20	16.03	708	83.21	0.29866	228	280
Dotterel	176.9	141.9	12	7	3.08	3.08	15.42	656	76.98	0.32223	218	267
Pigeon	167.8	99.2	6	1	4.25	4.25	12.75	343	29.46	0.33644	207	251
Guinea	159.0	127.5	12	7	2.92	2.92	14.63	590	71.20	0.35847	205	251
Leghorn	134.6	108.0	12	7	2.69	2.69	13.46	499	60.52	0.42346	186	227
Quail	133.1	78.6	6	1	3.78	3.78	11.35	272	23.58	0.42421	180	218
Minorca	110.8	88.9	12	7	2.44	2.44	12.22	411	50.28	0.51423	166	201
Raven	105.6	62.5	6	1	3.37	3.37	10.11	216	19.49	0.53411	157	190
Petrel	101.8	81.7	12	7	2.34	2.34	11.71	378	46.28	0.55986	158	191
Robin	83.7	49.5	6	1	3.00	3.00	8.99	171	15.80	0.67433	137	164
Grouse	80.0	54.7	8	1	2.54	4.24	9.32	221	23.14	0.70887	135	162
Sparate	66.4	42.2	7	1	2.47	3.30	8.26	159	16.20	0.84979	120	144
Sparrow	66.4	39.3	6	1	2.67	2.67	8.03	136	12.68	0.84985	120	143
Swanate	41.7	26.5	7	1	1.96	2.61	6.53	100	10.50	1.35267	91	108
Swan	41.7	24.7	6	1	2.12	2.12	6.35	85	8.28	1.35220	91	107
Turkey	26.2	15.5	6	1	1.68	1.68	5.03	54	5.30	2.15264	68	81
Brant	397.5	227.5	24	7	3.27	2.18	19.61	761	64.97	0.14336	364	451
Chickadee	397.5	212.6	18	1	3.77	3.77	18.87	641	44.23	0.14268	363	449

NOTE :

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
-	2466.9	1250.0	84	19	4.35	2.61	47.85	4274	306.00	0.02324	969	1295
-	2466.9	1250.0	76	19	4.58	2.14	47.34	4023	269.00	0.02317	967	1290
-	2466.9	1250.0	72	7	4.70	3.13	46.99	3901	250.00	0.02323	964	1285
-	2210.4	1120.0	84	19	4.12	2.47	45.31	3833	275.00	0.02591	921	1221
-	2210.4	1120.0	76	19	4.33	2.02	44.74	3595	240.00	0.02593	917	1215
-	2210.4	1120.0	72	7	4.45	2.97	44.51	3499	226.00	0.02591	916	1213
-	1973.6	1000.0	84	19	3.89	2.33	42.77	3416	245.00	0.02907	870	1147
-	1973.6	1000.0	72	7	4.21	2.81	42.11	3132	202.00	0.02895	868	1142
-	1776.2	900.0	84	19	3.69	2.21	40.57	3073	226.00	0.03230	825	1082
-	1776.2	900.0	72	7	3.99	2.66	39.90	2812	181.00	0.03223	823	1076
-	1578.8	800.0	54	19	4.34	2.60	39.04	3015	240.00	0.03632	770	1005
-	1578.8	800.0	45	7	4.76	3.17	38.07	2652	186.00	0.03606	769	1002
-	1401.2	710.0	54	19	4.09	2.45	36.79	2678	213.00	0.04090	723	938
-	1401.2	710.0	45	7	4.48	2.99	35.85	2351	167.00	0.04071	722	935
-	1243.3	630.0	54	19	3.85	2.31	34.65	2375	189.00	0.04616	678	875
-	1243.3	630.0	45	7	4.22	2.81	33.75	2084	148.00	0.04588	678	872
-	1105.2	560.0	54	19	3.63	2.18	32.68	2112	173.00	0.05192	636	817
-	1105.2	560.0	45	7	3.98	2.65	31.83	1854	132.00	0.05158	636	815
-	986.8	500.0	54	7	3.43	3.43	30.87	1889	154.00	0.05787	600	766
-	986.8	500.0	45	7	3.76	2.51	30.09	1656	118.00	0.05779	598	762
-	888.1	450.0	54	7	3.26	3.26	29.34	1706	139.00	0.06407	567	721
-	888.1	450.0	45	7	3.57	2.38	28.56	1492	108.00	0.06411	565	717
-	789.4	400.0	30	19	4.12	2.47	28.83	1824	170.00	0.07238	540	686
-	789.4	400.0	26	7	4.43	3.45	28.07	1622	139.00	0.07206	539	684
-	789.4	400.0	24	7	4.61	3.07	28.07	1515	123.00	0.07208	539	683
-	700.6	355.0	30	19	3.88	2.33	27.17	1620	151.00	0.08161	505	639
-	700.6	355.0	26	7	4.17	3.24	26.40	1435	123.00	0.08132	504	636
-	700.6	355.0	24	7	4.34	2.89	26.03	1343	111.00	0.08133	503	634
-	621.7	315.0	30	19	3.66	2.20	25.64	1443	138.00	0.09171	473	596

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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Tomorrow's solutions today

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
-	621.7	315.0	26	7	3.93	3.06	24.90	1277	110.00	0.09156	471	593
-	621.7	315.0	24	7	4.09	2.73	24.55	1194	98.70	0.09158	470	591
-	621.7	315.0	18	1	4.72	4.72	23.60	1014	68.00	0.09124	468	587
-	552.6	280.0	30	7	3.45	3.45	24.15	1291	122.00	0.10322	442	555
-	552.6	280.0	26	7	3.70	2.88	23.44	1131	100.00	0.10329	440	551
-	552.6	280.0	24	7	3.85	2.57	23.11	1058	87.50	0.10335	439	549
-	552.6	280.0	18	1	4.45	4.45	22.25	901	60.40	0.10264	438	547
-	493.4	250.0	30	7	3.26	3.26	22.82	1152	109.00	0.11560	415	519
-	493.4	250.0	26	7	3.50	2.72	22.16	1011	89.50	0.11544	413	516
-	493.4	250.0	24	7	3.64	2.43	21.85	946	79.40	0.11562	412	514
-	493.4	250.0	18	1	4.21	4.21	21.05	806	54.10	0.11468	411	512
-	442.1	224.0	30	7	3.08	3.08	21.56	1029	97.40	0.12950	389	484
-	442.1	224.0	26	7	3.31	2.57	20.95	904	80.00	0.12907	388	482
-	442.1	224.0	24	7	3.45	2.30	20.70	849	72.00	0.12871	387	482
-	442.1	224.0	18	1	3.98	3.98	19.90	721	48.30	0.12832	386	478
-	394.7	200.0	30	7	2.91	2.91	20.37	918	89.70	0.14508	364	452
-	394.7	200.0	26	7	3.13	2.43	19.81	808	71.50	0.14434	364	451
-	394.7	200.0	24	7	3.26	2.17	19.55	758	64.20	0.14415	363	450
-	394.7	200.0	18	1	3.76	3.76	18.80	643	43.10	0.14377	361	447
-	355.2	180.0	30	7	2.76	2.76	19.32	826	80.70	0.16128	343	424
-	355.2	180.0	26	7	2.97	2.31	18.81	729	65.40	0.16031	342	423
-	355.2	180.0	24	7	3.09	2.06	18.54	681	57.80	0.16044	341	422
-	355.2	180.0	18	1	3.57	3.57	17.85	580	40.40	0.15948	340	419
-	315.8	160.0	30	7	2.61	2.61	18.27	739	72.90	0.18035	321	397
-	315.8	160.0	26	7	2.80	2.18	17.74	648	58.90	0.18037	320	394
-	315.8	160.0	24	7	2.91	1.94	17.46	604	52.00	0.18091	318	392
-	315.8	160.0	18	1	3.36	3.36	16.80	514	35.80	0.18004	317	390
-	276.3	140.0	26	7	2.62	2.04	16.60	567	52.20	0.20600	296	364
-	276.3	140.0	24	7	2.73	1.82	16.38	532	46.40	0.20555	296	363

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.

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Tomorrow's solutions today

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - ASTM B 232

Code Name	Conductor size	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminium	Steel	Aluminium	Steel						
	(kcmil)	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
-	276.3	140.0	18	1	3.15	3.15	15.75	452	31.50	0.20485	294	361
-	246.7	125.0	26	7	2.47	1.92	15.64	504	46.90	0.23178	276	339
-	246.7	125.0	24	7	2.58	1.72	15.48	475	41.50	0.23014	277	339
-	246.7	125.0	18	1	2.97	2.97	14.85	401	28.80	0.23043	275	336
-	197.4	100.0	16	19	2.82	2.44	17.84	972	123.00	0.28896	236	291
-	197.4	100.0	12	7	3.26	3.26	16.30	734	85.90	0.28829	233	286
-	197.4	100.0	6	1	4.61	4.61	13.83	405	34.60	0.28552	228	277
-	177.6	90.0	12	7	3.09	3.09	15.45	660	77.20	0.32089	219	268
-	157.9	80.0	12	7	2.91	2.91	14.55	585	70.60	0.36181	204	249
-	157.9	80.0	6	1	4.12	4.12	12.36	323	27.60	0.35748	200	242
-	140.1	71.0	12	7	2.74	2.74	13.70	519	62.90	0.40810	190	232
-	124.3	63.0	12	7	2.59	2.59	12.95	463	56.20	0.45674	178	216
-	124.3	63.0	6	1	3.66	3.66	10.98	255	22.10	0.45298	174	210
-	110.5	56.0	12	7	2.44	2.44	12.20	411	50.20	0.51462	166	201
-	98.7	50.0	12	7	2.30	2.30	11.50	365	45.40	0.57918	155	187
-	98.7	50.0	6	1	3.26	3.26	9.78	202	18.10	0.57096	151	182
-	78.9	40.0	8	1	2.52	4.20	9.24	218	22.50	0.72017	133	160
-	78.9	40.0	6	1	2.91	2.91	8.73	161	14.90	0.71657	132	158
-	62.2	31.5	7	1	2.39	3.19	7.97	148	15.10	0.91054	115	138
-	62.2	31.5	6	1	2.59	2.59	7.77	128	11.90	0.90457	115	137
-	49.3	25.0	7	1	2.13	2.84	7.10	118	12.30	1.14640	100	120
-	49.3	25.0	6	1	2.30	2.30	6.90	101	9.53	1.14706	100	119
-	39.5	20.0	7	1	1.91	2.55	6.37	95	10.00	1.42570	88	105
-	39.5	20.0	6	1	2.06	2.06	6.18	81	7.84	1.42990	88	104
-	31.6	16.0	6	1	1.84	1.84	5.52	64	6.33	1.79228	76	90
-	24.7	12.5	6	1	1.63	1.63	4.89	51	4.97	2.28384	66	78

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/m^2 Solar radiation

Customized conductor sizes based on customer's requirement can also be designed.

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Tomorrow's solutions today

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - SS 424 08 07

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
	(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
Swallow	31.1	6	1	2.38	2.38	7.14	108	10.00	1.07000	104	124
Robin	49.5	6	1	3.00	3.00	9.00	171	15.60	0.67500	137	164
Raven	62.4	6	1	3.37	3.37	10.11	216	19.00	0.53500	157	189
Pigeon	99.3	6	1	4.25	4.25	12.75	343	29.80	0.33600	207	251
Partridge	156.9	26	7	2.57	2.00	16.28	545	50.20	0.21400	290	355
Ibis	234.1	26	7	3.14	2.44	19.88	812	72.90	0.14300	365	453
Dove	328.5	26	7	3.72	2.89	23.55	1140	99.70	0.10200	443	555
Condor	454.5	54	7	3.08	3.08	27.72	1522	129.00	0.07200	531	673
Curlew	593/68	54	7	3.52	3.52	31.68	1990	165.00	0.05510	616	788
Skata	774/89	54	7	4.02	4.02	36.18	2592	212.00	0.04220	711	921
Falcon	910/102	54	19	4.36	2.62	39.26	3040	251.00	0.03610	773	1009
Morkulla	593/29	42	7	4.13	2.31	31.70	1782	128.00	0.05140	637	815
Ripa	774/38	42	7	4.72	2.63	36.20	2324	162.00	0.03930	734	952
Orre	910/44	42	7	5.12	2.83	39.20	2736	191.00	0.03340	799	1043
Dotterel	142.00	12	7	3.08	3.08	15.40	655.0	73.20	0.3230	218	267
Oden	185.00	12	7	3.52	3.52	17.60	855.0	94.90	0.2470	255	314
Atle	241.00	12	7	4.02	4.02	20.10	1115.0	123.00	0.1890	298	369
Ymer	319.00	32	7	3.16	3.43	23.20	1228.0	119.00	0.1150	417	522

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/m^2 Solar radiation

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