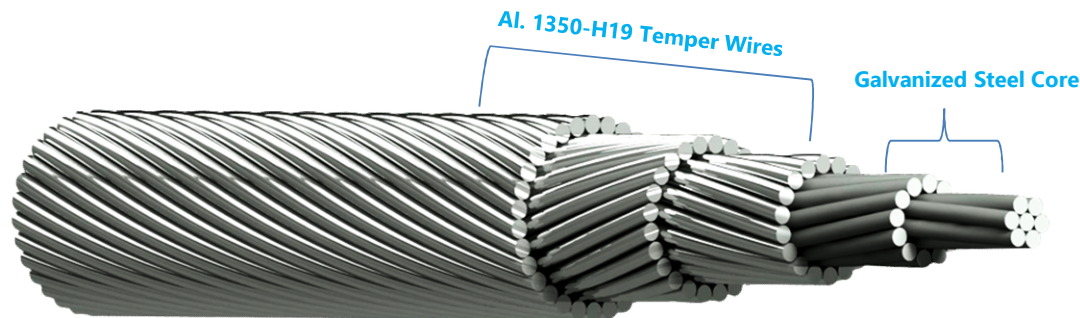


ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR)

Aluminium Conductors Steel reinforced (ACSR): These conductors are made with concentric layers of aluminum wire around a galvanized steel core. The steel core, which may be single or stranded, is coated with zinc (Class A or Class B) for corrosion resistance. These conductors offer a balance of strength (from the steel core) and conductivity (from the aluminum), making them ideal for long-distance power transmission.

Structure

Aluminum 1350-H19 Wires are arranged in concentric layers around a central core made of **galvanized steel**



Benefits:

- Enhanced **tensile strength** for improved durability.
- Reduced **sag** for long-span applications.
- Economical **design** for cost efficiency.
- Perfect for **remote locations** requiring extended reach.

Comes with a dull surface finish and customizable coatings.

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)
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

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)
520	596.99	54	7	3.53	3.53	31.77	2004	161.20	0.05552	614	786
560	591.74	42	7	4.13	2.30	31.68	1787	120.16	0.05199	633	810
690	724.40	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/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

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)	(Ampere)
GOPHER	25	30.62	6	1	2.36	2.36	7.08	106	9.61	1.09300	102	123
WEASEL	30	36.88	6	1	2.59	2.59	7.77	128	11.45	0.90770	116	136
FERRET	40	49.48	6	1	3.00	3.00	9.00	172	15.20	0.67660	136	163
RABBIT	50	61.70	6	1	3.35	3.35	10.05	214	18.35	0.54260	157	189
HORSE	70	116.2	12	7	2.79	2.79	13.95	538	61.20	0.39360	193	238
DOG	100	118.5	6	7	4.72	1.57	14.15	394	32.70	0.27330	235	284
WOLF	150	194.9	30	7	2.59	2.59	18.13	726	69.20	0.18280	318	392
DINGO	150	167.5	18	1	3.35	3.35	16.75	506	35.70	0.18150	317	389
LYNX	175	226.2	30	7	2.79	2.79	19.53	842	79.80	0.15760	346	431
CARACAL	175	194.5	18	1	3.61	3.61	18.05	587	41.10	0.15630	345	424
PANTHER	200	261.5	30	7	3.00	3.00	21.00	974	92.25	0.13630	376	469
JAGUAR	200	222.3	18	1	3.86	3.86	19.30	671	46.55	0.13670	373	461
ZEBRA	400	484.5	54	7	3.18	3.18	28.62	1621	131.90	0.06740	550	701

NOTE :

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

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)
10/1.8	10.6/1.77	6	1	1.50	1.50	4.50	42.7	4.09	2.70640	59	71
16/2.7	16/2.69	6	1	1.85	1.85	5.60	64.9	6.22	1.78180	78	90
25/4.2	24.9/4.15	6	1	2.30	2.30	6.90	100.3	9.30	1.15210	99	118
35/6.2	36.9/6.15	6	1	2.80	2.80	8.40	148.0	13.52	0.77740	127	152
40/6.7	40/6.7	6	1	2.91	2.91	8.74	161.3	14.40	0.71720	131	159
50/8.0	48.2/8.04	6	1	3.20	3.20	9.60	195.0	17.11	0.59510	149	177
63/10.5	63/10.5	6	1	3.66	3.66	10.97	254.0	21.63	0.45530	172	208
70/11	68/11.3	6	1	3.80	3.80	11.40	276.0	24.13	0.42180	182	220
70/72	68.4 /72.2	18	19	2.20	2.20	15.40	755.0	96.83	0.41940	190	235
95/16	95.4/15.9	6	1	4.50	4.50	13.50	385.0	33.37	0.30070	222	268
95/141	91.2/141	24	37	2.20	2.20	19.80	1357.0	180.78	0.31460	229	284
100/16.7	100/16.7	6	1	4.61	4.61	13.82	403.2	34.33	0.28680	228	278
120/19	118/18.8	26	7	2.40	1.85	15.20	471.0	41.52	0.24400	267	329
120/27	114/26.6	30	7	2.20	2.20	15.40	528.0	49.47	0.25310	265	322
125/6.9	125/6.9	18	1	2.97	2.97	14.85	397.9	29.17	0.23040	274	335
125/20.4	125/20.4	26	7	2.47	1.92	15.67	503.5	45.69	0.23080	278	340
150/19	148/18.8	24	7	2.80	1.85	16.80	554.0	46.31	0.20460	297	367
150/24	149/24.2	26	7	2.70	2.10	17.10	599.0	52.28	0.20390	300	367
150/34	147/34.3	30	7	2.50	2.50	17.50	675.0	62.64	0.20610	298	367
160/8.9	160/8.9	18	1	3.36	3.36	16.82	509.4	36.18	0.18000	318	391
160/26.1	160/26.1	26	7	2.80	2.18	17.73	644.5	57.69	0.18030	319	395
185/24	187/24.2	24	7	3.15	2.10	18.90	705.0	58.08	0.15400	350	431
185/29	181/29	26	7	2.98	2.30	18.80	728.0	62.06	0.15910	343	424
185/43	185/43.1	30	7	2.80	2.80	19.60	846.0	77.77	0.15590	350	434

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 requirements can also be designed.

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)
185/128	187/128	54	37	2.10	2.10	23.10	1525.0	183.82	0.15430	359	451
200/11.1	200/11.1	18	1	3.76	3.76	18.81	636.7	44.22	0.14400	362	445
200/32.6	200/32.6	26	7	3.13	2.43	19.82	805.6	70.13	0.14420	363	450
205/27	205/26.6	24	7	3.30	2.20	19.80	774.0	63.74	0.14070	369	457
240/32	244/31.7	24	7	3.60	2.40	21.60	921.0	75.05	0.11820	406	508
240/39	236/38.6	26	7	3.40	2.65	21.60	952.0	80.90	0.12220	401	498
240/56	241/56.3	30	7	3.20	3.20	22.40	1106.0	98.25	0.11970	406	507
300/39	301/38.6	24	7	4.00	2.65	24.00	1132.0	90.57	0.09580	459	576
300/48	295/47.8	26	7	3.80	2.95	24.10	1186.0	100.62	0.09780	453	571
300/66	288.5 / 65.8	30	19	3.50	2.10	24.50	1313.0	117.52	0.10000	451	564
300/67	288.5 / 67.3	30	7	3.50	3.50	24.50	1323.0	126.27	0.10000	449	564
300/204	298/204	54	37	2.65	2.65	29.20	2428.0	284.58	0.09680	470	597
315/21.8	315/21.8	45	7	2.99	1.99	23.83	1039.2	79.03	0.09170	461	580
315/51.3	315/51.3	26	7	3.93	3.05	24.87	1268.9	106.83	0.09160	472	591
330/30	335/29.1	48	7	2.98	2.30	24.80	1152.0	88.85	0.08610	478	601
330/43	332/43.1	54	7	2.80	2.80	25.20	1255.0	103.78	0.08690	479	603
400/27.7	400/27.7	45	7	3.36	2.24	26.91	1319.7	98.36	0.07220	528	669
400/51.9	400/51.9	54	7	3.07	3.07	27.64	1509.7	123.04	0.07220	531	671
400/18	381/18.8	42	7	3.40	1.85	26.00	1199.0	85.60	0.07580	513	647
400/22	394/22	76	7	2.57	2.00	26.60	1261.0	95.12	0.07330	531	671
400/51	394/51.1	54	7	3.05	3.05	27.50	1490.0	120.48	0.07330	525	667
400/64	390/63.5	26	7	4.37	3.40	27.70	1572.0	129.18	0.07410	532	671
400/93	406/93.2	30	19	4.15	2.50	29.10	1851.0	173.72	0.07110	545	692
450/31.1	450/31.1	45	7	3.57	2.38	28.55	1484.6	107.47	0.06460	564	715

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 requirements can also be designed.

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)
450/58.3	450/58.3	54	7	3.26	3.26	29.32	1698.4	138.42	0.06420	565	721
450/56	434/56.3	54	7	3.20	3.20	28.80	1640.0	131.37	0.06660	556	704
500/34.6	500/34.6	45	7	3.76	2.51	30.09	1649.6	119.41	0.05770	597	762
500/64.8	500/64.8	54	7	3.43	3.43	30.90	1887.1	153.80	0.05780	601	767
500/26	502/26.6	42	7	3.90	2.20	30.00	1592.0	112.55	0.05750	598	764
500/27	481/26.6	76	7	2.84	2.20	29.40	1537.0	112.19	0.06000	594	753
500/64	490/63.5	54	7	3.40	3.40	30.60	1852.0	148.26	0.05880	593	758
500/204	496/204	90	37	2.65	2.65	34.50	2979.0	319.61	0.05800	609	784
500/336	490/336	54	61	3.40	2.65	37.50	4005.0	466.65	0.05880	616	803
550/71	549/71.2	54	7	3.60	3.60	32.40	2076.0	166.16	0.05260	633	809
560/38.7	560/38.7	45	7	3.98	2.65	31.84	1847.5	133.74	0.05150	636	814
560/70.9	560/70.9	54	19	3.63	2.18	32.70	2102.2	172.59	0.05160	639	820
600/72	580/72.2	54	19	3.70	2.20	33.20	2170.0	183.84	0.04980	650	837
630/43.6	630/43.6	45	7	4.22	2.81	33.79	2078.5	150.45	0.04580	679	872
630/79.8	630/79.8	54	19	3.85	2.31	34.69	2365.0	191.77	0.04590	679	876
650/79	634/78.9	96	19	2.90	2.30	34.70	2372.0	200.45	0.04560	692	893
700/86	687/85.9	96	19	3.02	2.40	36.20	2575.0	217.78	0.04200	721	937
710/49.1	710/49.1	45	7	4.48	2.99	35.86	2342.4	169.56	0.04060	724	935
710/89.9	710/89.9	54	19	4.09	2.45	36.82	2665.3	216.12	0.04070	724	940
750/93	748/93.2	96	19	3.15	2.50	37.70	2800.0	234.45	0.03860	756	983
800/34.6	800/34.6	72	7	3.76	2.51	37.61	2479.6	167.41	0.03610	775	1011
800/66.7	800/66.7	84	7	3.48	3.48	38.30	2732.3	205.43	0.03610	780	1014
800/101.3	800/101.3	54	19	4.34	2.61	39.09	3003.2	243.52	0.03610	771	1007
800/105	821/105	96	19	3.30	2.65	39.70	3092.0	260.07	0.03520	794	1038

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 requirements can also be designed.

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)
900/38.9	900/38.9	72	7	3.99	2.66	39.89	2789.5	188.33	0.03210	823	1079
900/75	900/75	84	7	3.69	3.69	40.63	3073.9	226.50	0.03210	829	1084
1000/43.2	1000/43.2	72	7	4.21	2.80	42.05	3099.4	209.26	0.02890	868	1142
1000/56	1003.2/56.3	76	7	4.10	3.20	42.40	3210.0	224.05	0.02880	872	1149
1120/47.3	1120/47.3	72	19	4.45	1.78	44.50	3463.9	234.28	0.02580	916	1216
1120/91.2	1120/91.2	84	19	4.12	2.47	45.32	3810.7	283.17	0.02530	931	1234
1250/52.8	1250/52.8	72	19	4.70	1.88	47.02	3865.9	261.75	0.02310	965	1287
1250/101.8	1250/101.8	84	19	4.35	2.61	47.88	4253.0	316.04	0.02310	973	1299

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 requirements can also be designed.

ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - AS 3607

Nominal Area	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel					(Ampere)	(Ampere)
		(No.)	(No.)	(mm)	(mm)						
34	34.36	6	1	2.50	2.50	7.50	119	10.50	0.97500	109	132
42	41.58	6	1	2.75	2.75	8.30	144	12.60	0.80500	125	147
49	49.48	6	1	3.00	3.00	9.00	171	14.90	0.67700	136	163
77	77.31	6	1	3.75	3.75	11.30	268	22.70	0.43300	179	217
120	120.4	6	7	4.75	1.60	14.30	402	33.40	0.27100	234	288
182	181.6	30	7	2.50	2.50	17.50	677	63.50	0.19600	307	376
262	261.5	30	7	3.00	3.00	21.00	973	90.40	0.13600	377	469
307	306.9	30	7	3.25	3.25	22.80	1140	105.00	0.11600	415	519
356	356.0	30	7	3.50	3.50	24.50	1320	122.00	0.10000	449	566
431	431.2	54	7	3.00	3.00	27.00	1440	119.00	0.07580	517	652
506	506.0	54	7	3.25	3.25	29.30	1690	137.00	0.06460	563	717
587	586.9	54	7	3.50	3.50	31.50	1960	159.00	0.05570	613	784
672	672.0	54	19	3.75	2.25	33.80	2240	178.00	0.04850	659	851
17	16.84	3	4	1.75	1.75	5.30	95	12.70	3.25000	57	66
34	34.36	3	4	2.50	2.50	7.50	195	24.40	1.59000	85	102
49	49.48	4	3	3.00	3.00	9.00	243	28.30	0.89700	120	144
77	77.31	4	3	3.75	3.75	11.30	380	43.90	0.57300	154	189

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



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

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)					(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.08	1.79340	75	91
25	29.2	6	1	2.30	2.30	6.91	101	9.13	1.14780	101	118
40	46.7	6	1	2.91	2.91	8.74	162	14.40	0.71740	131	157
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	174	210
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	226	278
125	132.0	18	1	2.97	2.97	14.90	398	29.17	0.23040	276	335
125	145.0	26	7	2.47	1.92	15.70	504	45.69	0.23100	276	338
160	169.0	18	1	3.36	3.36	16.80	509	36.18	0.18000	318	391
160	186.0	26	7	2.80	2.18	17.70	645	57.69	0.18050	319	395
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	362	445
200	233.0	26	7	3.13	2.43	19.80	806	70.13	0.14440	362	450
250	275.0	22	7	3.80	2.11	21.60	881	68.72	0.11540	413	514
250	291.0	26	7	3.50	2.72	22.20	1008	87.67	0.11550	412	517
315	337.0	45	7	2.99	1.99	23.90	1040	79.03	0.09170	463	579
315	366.0	26	7	3.93	3.05	24.90	1270	106.83	0.09170	470	591
400	428.0	45	7	3.36	2.24	26.90	1320	98.36	0.07220	530	669
400	452.0	54	7	3.07	3.07	27.60	1510	123.04	0.07230	529	672
450	481.0	45	7	3.57	2.38	28.50	1485	107.47	0.06420	565	715
450	508.0	54	7	3.26	3.26	29.30	1699	138.42	0.06430	565	719
500	535.0	45	7	3.76	2.51	30.10	1650	119.41	0.05780	599	763
500	565.0	54	7	3.43	3.43	30.90	1888	153.80	0.05780	599	767
560	599.0	45	7	3.98	2.65	31.80	1848	133.74	0.05160	637	813
560	631.0	54	19	3.63	2.18	32.70	2103	172.59	0.05160	637	818
630	674.0	45	7	4.22	2.81	33.80	2079	150.45	0.04590	679	873
630	710.0	54	19	3.85	2.31	34.70	2366	191.77	0.04590	679	878
710	759.0	45	7	4.48	2.99	35.90	2343	169.56	0.04070	723	934
710	800.0	54	19	4.09	2.45	36.80	2667	216.12	0.04070	724	940
800	835.0	72	7	3.76	2.51	37.60	2480	167.41	0.03610	777	1011
800	867.0	84	7	3.48	3.48	38.30	2733	205.33	0.03620	777	1015
800	901.0	54	19	4.34	2.61	39.10	3005	243.52	0.03620	772	1006
900	939.0	72	7	3.99	2.66	39.90	2790	188.33	0.03210	823	1078
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	828	1084
1000	1043.0	72	7	4.21	2.80	42.10	3100	209.26	0.02890	868	1144
1120	1167.0	72	19	4.45	1.78	44.50	3465	234.53	0.02580	918	1214
1120	1211.0	84	19	4.12	2.47	45.30	3812	283.17	0.02580	921	1223
1250	1352.0	84	19	4.35	2.61	47.90	4254	316.04	0.02320	971	1297
1250	1303.0	72	19	4.70	1.88	47.00	3867	261.75	0.02310	965	1289

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 requirements can also be designed.



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	75	91
25	29.2	6	1	2.30	2.30	6.91	101	8.83	1.14780	101	118
40	46.7	6	1	2.91	2.91	8.74	162	13.93	0.71740	131	157
63	73.5	6	1	3.66	3.66	11.00	254	20.58	0.45550	174	210
100	117.0	6	1	4.61	4.61	13.80	404	32.67	0.28690	226	278
125	132.0	18	1	2.97	2.97	14.90	398	28.68	0.23040	276	335
125	145.0	26	7	2.47	1.92	15.70	504	44.27	0.23100	276	338
160	169.0	18	1	3.36	3.36	16.80	509	35.29	0.18000	318	391
160	186.0	26	7	2.80	2.18	17.70	645	55.86	0.18050	319	395
200	211.0	18	1	3.76	3.76	18.80	637	43.11	0.14400	362	445
200	233.0	26	7	3.13	2.43	19.80	806	67.85	0.14440	362	450
250	275.0	22	7	3.80	2.11	21.60	881	67.01	0.11540	413	514
250	291.0	26	7	3.50	2.72	22.20	1008	84.82	0.11550	412	517
315	337.0	45	7	2.99	1.99	23.90	1040	77.51	0.09170	463	579
315	366.0	26	7	3.93	3.05	24.90	1270	101.70	0.09170	470	591
400	428.0	45	7	3.36	2.24	26.90	1320	96.42	0.07220	530	669
400	452.0	54	7	3.07	3.07	27.60	1510	117.85	0.07230	529	672
450	481.0	45	7	3.57	2.38	28.50	1485	105.29	0.06420	565	715
450	508.0	54	7	3.26	3.26	29.30	1699	132.58	0.06430	565	719
500	535.0	45	7	3.76	2.51	30.10	1650	116.99	0.05780	599	763
500	565.0	54	7	3.43	3.43	30.90	1888	147.31	0.05780	599	767
560	599.0	45	7	3.98	2.65	31.80	1848	131.03	0.05160	637	813
560	631.0	54	19	3.63	2.18	32.70	2103	167.63	0.05160	637	818
630	674.0	45	7	4.22	2.81	33.80	2079	147.40	0.04590	679	873
630	710.0	54	19	3.85	2.31	34.70	2366	186.19	0.04590	679	878
710	759.0	45	7	4.48	2.99	35.90	2343	166.12	0.04070	723	934
710	800.0	54	19	4.09	2.45	36.80	2667	209.83	0.04070	724	940
800	835.0	72	7	3.76	2.51	37.60	2480	164.99	0.03610	777	1011
800	867.0	84	7	3.48	3.48	38.30	2733	198.67	0.03620	777	1015
800	901.0	54	19	4.34	2.61	39.10	3005	236.43	0.03620	772	1006
900	939.0	72	7	3.99	2.66	39.90	2790	185.61	0.03210	823	1078
900	975.0	84	7	3.69	3.69	40.60	3074	219.00	0.03220	828	1084
1000	1043.0	72	7	4.21	2.80	42.10	3100	206.23	0.02890	868	1144
1120	1167.0	72	19	4.45	1.78	44.50	3465	231.22	0.02580	918	1214
1120	1211.0	84	19	4.12	2.47	45.30	3812	276.78	0.02580	921	1223
1250	1352.0	84	19	4.35	2.61	47.90	4254	308.91	0.02320	971	1297
1250	1303.0	72	19	4.70	1.88	47.00	3867	258.06	0.02310	965	1289

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



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

Nominal Area	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)					(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.45	1.79340	75	91
25	29.2	6	1	2.30	2.30	6.91	101	9.71	1.14780	101	118
40	46.7	6	1	2.91	2.91	8.74	162	15.33	0.71740	131	157
63	73.5	6	1	3.66	3.66	11.00	254	22.37	0.45550	174	210
100	117.0	6	1	4.61	4.61	13.80	404	35.50	0.28690	226	278
125	132.0	18	1	2.97	2.97	14.90	398	30.14	0.23040	276	335
125	145.0	26	7	2.47	1.92	15.70	504	48.54	0.23100	276	338
160	169.0	18	1	3.36	3.36	16.80	509	37.42	0.18000	318	391
160	186.0	26	7	2.80	2.18	17.70	645	61.34	0.18050	319	395
200	211.0	18	1	3.76	3.76	18.80	637	45.00	0.14400	362	445
200	233.0	26	7	3.13	2.43	19.80	806	74.69	0.14440	362	450
250	275.0	22	7	3.80	2.11	21.60	881	72.16	0.11540	413	514
250	291.0	26	7	3.50	2.72	22.20	1008	93.37	0.11550	412	517
315	337.0	45	7	2.99	1.99	23.90	1040	82.08	0.09170	463	579
315	366.0	26	7	3.93	3.05	24.90	1270	114.02	0.09170	470	591
400	428.0	45	7	3.36	2.24	26.90	1320	102.23	0.07220	530	669
400	452.0	54	7	3.07	3.07	27.60	1510	130.30	0.07230	529	672
450	481.0	45	7	3.57	2.38	28.50	1485	111.82	0.06420	565	715
450	508.0	54	7	3.26	3.26	29.30	1699	146.58	0.06430	565	719
500	535.0	45	7	3.76	2.51	30.10	1650	124.25	0.05780	599	763
500	565.0	54	7	3.43	3.43	30.90	1888	162.87	0.05780	599	767
560	599.0	45	7	3.98	2.65	31.80	1848	139.16	0.05160	637	813
560	631.0	54	19	3.63	2.18	32.70	2103	182.52	0.05160	637	818
630	674.0	45	7	4.22	2.81	33.80	2079	156.55	0.04590	679	873
630	710.0	54	19	3.85	2.31	34.70	2366	202.94	0.04590	679	878
710	759.0	45	7	4.48	2.99	35.90	2343	176.43	0.04070	723	934
710	800.0	54	19	4.09	2.45	36.80	2667	228.71	0.04070	724	940
800	835.0	72	7	3.76	2.51	37.60	2480	172.25	0.03610	777	1011
800	867.0	84	7	3.48	3.48	38.30	2733	214.67	0.03620	777	1015
800	901.0	54	19	4.34	2.61	39.10	3005	257.71	0.03620	772	1006
900	939.0	72	7	3.99	2.66	39.90	2790	193.78	0.03210	823	1078
900	975.0	84	7	3.69	3.69	40.60	3074	231.75	0.03220	828	1084
1000	1043.0	72	7	4.21	2.80	42.10	3100	215.31	0.02890	868	1144
1120	1167.0	72	19	4.45	1.78	44.50	3465	241.15	0.02580	918	1214
1120	1211.0	84	19	4.12	2.47	45.30	3812	295.94	0.02580	921	1223
1250	1352.0	84	19	4.35	2.61	47.90	4254	330.29	0.02320	971	1297
1250	1303.0	72	19	4.70	1.88	47.00	3867	269.14	0.02310	965	1289

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 requirements can also be designed.



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)	(Kg/km)
16	18.7	6	1	1.84	1.84	5.53	65	6.27	1.79340	75	91
25	29.2	6	1	2.30	2.30	6.91	101	9.42	1.14780	101	118
40	46.7	6	1	2.91	2.91	8.74	162	14.87	0.71740	131	157
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	174	210
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	226	278
125	132.0	18	1	2.97	2.97	14.90	398	29.65	0.23040	276	335
125	145.0	26	7	2.47	1.92	15.70	504	47.12	0.23100	276	338
160	169.0	18	1	3.36	3.36	16.80	509	36.80	0.18000	318	391
160	186.0	26	7	2.80	2.18	17.70	645	59.51	0.18050	319	395
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	362	445
200	233.0	26	7	3.13	2.43	19.80	806	72.41	0.14440	362	450
250	275.0	22	7	3.80	2.11	21.60	881	70.44	0.11540	413	514
250	291.0	26	7	3.50	2.72	22.20	1008	90.52	0.11550	412	517
315	337.0	45	7	2.99	1.99	23.90	1040	80.55	0.09170	463	579
315	366.0	26	7	3.93	3.05	24.90	1270	110.43	0.09170	470	591
400	428.0	45	7	3.36	2.24	26.90	1320	100.29	0.07220	530	669
400	452.0	54	7	3.07	3.07	27.60	1510	126.67	0.07230	529	672
450	481.0	45	7	3.57	2.38	28.50	1485	109.64	0.06420	565	715
450	508.0	54	7	3.26	3.26	29.30	1699	142.50	0.06430	565	719
500	535.0	45	7	3.76	2.51	30.10	1650	121.83	0.05780	599	763
500	565.0	54	7	3.43	3.43	30.90	1888	158.33	0.05780	599	767
560	599.0	45	7	3.98	2.65	31.80	1848	136.45	0.05160	637	813
560	631.0	54	19	3.63	2.18	32.70	2103	177.56	0.05160	637	818
630	674.0	45	7	4.22	2.81	33.80	2079	153.50	0.04590	679	873
630	710.0	54	19	3.85	2.31	34.70	2366	197.36	0.04590	679	878
710	759.0	45	7	4.48	2.99	35.90	2343	172.99	0.04070	723	934
710	800.0	54	19	4.09	2.45	36.80	2667	222.42	0.04070	724	940
800	835.0	72	7	3.76	2.51	37.60	2480	169.83	0.03610	777	1011
800	867.0	84	7	3.48	3.48	38.30	2733	210.00	0.03620	777	1015
800	901.0	54	19	4.34	2.61	39.10	3005	250.61	0.03620	772	1006
900	939.0	72	7	3.99	2.66	39.90	2790	191.06	0.03210	823	1078
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	828	1084
1000	1043.0	72	7	4.21	2.80	42.10	3100	212.28	0.02890	868	1144
1120	1167.0	72	19	4.45	1.78	44.50	3465	237.84	0.02580	918	1214
1120	1211.0	84	19	4.12	2.47	45.30	3812	289.55	0.02580	921	1223
1250	1352.0	84	19	4.35	2.61	47.90	4254	323.16	0.02320	971	1297
1250	1303.0	72	19	4.70	1.88	47.00	3867	265.44	0.02310	965	1289

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 requirements can also be designed.



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

Nominal Area	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
16	18.7	6	1	1.84	1.84	5.53	65	6.83	1.79340	75	91
25	29.2	6	1	2.30	2.30	6.91	101	10.25	1.14780	101	118
40	46.7	6	1	2.91	2.91	8.74	162	16.20	0.71740	131	157
63	73.5	6	1	3.66	3.66	11.00	254	24.15	0.45550	174	210
100	117.0	6	1	4.61	4.61	13.80	404	38.33	0.28690	226	278
125	132.0	18	1	2.97	2.97	14.90	398	31.04	0.23040	276	335
125	145.0	26	7	2.47	1.92	15.70	504	51.39	0.23100	276	338
160	169.0	18	1	3.36	3.36	16.80	509	38.67	0.18000	318	391
160	186.0	26	7	2.80	2.18	17.70	645	64.99	0.18050	319	395
200	211.0	18	1	3.76	3.76	18.80	637	46.89	0.14400	362	445
200	233.0	26	7	3.13	2.43	19.80	806	78.93	0.14440	362	450
250	275.0	22	7	3.80	2.11	21.60	881	75.60	0.11540	413	514
250	291.0	26	7	3.50	2.72	22.20	1008	98.66	0.11550	412	517
315	337.0	45	7	2.99	1.99	23.90	1040	85.13	0.09170	463	579
315	366.0	26	7	3.93	3.05	24.90	1270	121.20	0.09170	470	591
400	428.0	45	7	3.36	2.24	26.90	1320	106.10	0.07220	530	669
400	452.0	54	7	3.07	3.07	27.60	1510	137.56	0.07230	529	672
450	481.0	45	7	3.57	2.38	28.50	1485	115.87	0.06420	565	715
450	508.0	54	7	3.26	3.26	29.30	1699	154.75	0.06430	565	719
500	535.0	45	7	3.76	2.51	30.10	1650	128.74	0.05780	599	763
500	565.0	54	7	3.43	3.43	30.90	1888	171.94	0.05780	599	767
560	599.0	45	7	3.98	2.65	31.80	1848	144.19	0.05160	637	813
560	631.0	54	19	3.63	2.18	32.70	2103	192.45	0.05160	637	818
630	674.0	45	7	4.22	2.81	33.80	2079	162.21	0.04590	679	873
630	710.0	54	19	3.85	2.31	34.70	2366	213.32	0.04590	679	878
710	759.0	45	7	4.48	2.99	35.90	2343	182.81	0.04070	723	934
710	800.0	54	19	4.09	2.45	36.80	2667	240.41	0.04070	724	940
800	835.0	72	7	3.76	2.51	37.60	2480	176.74	0.03610	777	1011
800	867.0	84	7	3.48	3.48	38.30	2733	224.00	0.03620	777	1015
800	901.0	54	19	4.34	2.61	39.10	3005	270.88	0.03620	772	1006
900	939.0	72	7	3.99	2.66	39.90	2790	198.83	0.03210	823	1078
900	975.0	84	7	3.69	3.69	40.60	3074	244.50	0.03220	828	1084
1000	1043.0	72	7	4.21	2.80	42.10	3100	220.93	0.02890	868	1144
1120	1167.0	72	19	4.45	1.78	44.50	3465	247.77	0.02580	918	1214
1120	1211.0	84	19	4.12	2.47	45.30	3812	307.79	0.02580	921	1223
1250	1352.0	84	19	4.35	2.61	47.90	4254	343.52	0.02320	971	1297
1250	1303.0	72	19	4.70	1.88	47.00	3867	276.53	0.02310	965	1289

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/ST1A
(Used in Austria)

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium	Steel	Aluminium	Steel						
		(No.)	(No.)	(mm)	(mm)						
34-AL1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	120	145
48-AL1/6-ST1A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	149	177
70-AL1/11-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	196	237
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	237	288
94-AL1 /15-ST1A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	234	287
97-AL1/34-ST1A	131.1	36	7	1.85	2.50	14.90	536.5	57.07	0.29900	242	294
122-AL1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	272	333
119-AL1/42-ST1A	160.4	36	7	2.05	2.75	16.50	653.9	68.79	0.24350	273	335
128-AL1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	281	347
149-AL1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	308	376
150-AL1/53-ST1 A	202.4	36	7	2.30	3.10	18.50	827.1	84.29	0.19340	310	383
172-AL1/40-ST1A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	335	414
184-AL1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	345	429
209-AL1/34-ST1 A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	374	462
212-AL1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	376	469
243-AL1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	407	508
238-AL1/82-ST1A	320.2	36	19	2.90	2.35	23.40	1305.3	134.37	0.12180	405	509
257-AL1/60-ST1A	316.5	30	7	3.30	3.30	23.10	1177.5	108.20	0.11260	422	526
304-AL1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	461	579
341-AL1/109-ST1A	450.0	78	19	2.36	2.70	27.70	1797.4	183.73	0.08480	498	630
382-AL1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	515	654
449-AL1 /39-S T1 A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	565	715
562-AL1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1 939.5	146.28	0.05150	636	816
679-AL1/86-ST1 A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	709	917
1288-AL1/183-ST1A	1471.1	100	19	4.05	3.50	49.90	5002	407.20	0.02250	990	1332

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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					(Ampere)	(Ampere)
		(mm ²)	(No.)	(No.)	(mm)					(mm)	(mm)
34-AL1/6-ST1A	39.5	6	1	2.68	2.68	8.04	136.6	12.18	0.84670	119	144
54-AL1/9-ST1A	62.4	6	1	3.37	3.37	10.11	216.1	18.64	0.53550	158	188
85-AL1 /14-ST1 A	99.3	6	1	4.25	4.25	12.75	343.6	29.22	0.33670	206	250
106-AL1/25-ST1 A	130.6	30	7	2.12	2.12	14.84	485.9	47.97	0.27290	254	310
152-AL1/25-ST1 A	176.9	26	7	2.73	2.12	17.28	613.6	54.78	0.18980	309	383
305-AL1/39-ST1A	344.1	54	7	2.68	2.68	24.12	1151.2	96.80	0.09490	456	570
565-AL1/72-ST1A	636.6	54	19	3.65	2.19	32.85	2123.0	174.14	0.05120	640	822
42-AL1/25-ST1A	67.1	12	7	2.12	2.12	10.60	310.2	36.53	0.68170	142	171
89-AL1/52-ST1A	141.6	12	7	3.08	3.08	15.40	654.8	72.12	0.32300	217	268
93-AL1/39-ST1A	132.4	10	7	3.44	2.68	14.92	565.1	60.35	0.31020	222	270
148-AL1/67-ST1A	215.3	42	19	2.12	2.12	19.08	937.3	105.16	0.19550	306	379

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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					(Ampere)	(Ampere)
		(mm ²)	(No.)	(No.)	(mm)					(mm)	(mm)
28-AL1/9-ST1A	37.7	9	3	2.00	2.00	8.30	151.5	16.26	1.01870	109	132
38-AL1/22-ST1A	59.7	12	7	2.00	2.00	10.00	276.1	32.70	0.76600	132	157
48-AL1/28-ST1A	75.5	12	7	2.25	2.25	11.30	349.4	41.15	0.60520	150	181
59-AL1/34-ST1A	93.3	12	7	2.50	2.50	12.50	431.4	49.48	0.49020	172	208
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	235	288
119-AL1/28-ST1A	147.1	30	7	2.25	2.25	15.80	547.4	54.03	0.24230	270	333
147-AL1/34-ST1A	181.6	30	7	2.50	2.50	17.50	675.8	64.94	0.19630	307	376
185-AL1/43-ST1A	227.8	30	7	2.80	2.80	19.60	847.7	80.54	0.15650	348	431
234-AL1/55-ST1A	288.3	30	7	3.15	3.15	22.10	1072.8	98.58	0.12360	400	499

NOTE :

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

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
94-AL 1/22-ST6C	116.2	30	7	2.00	2.00	14.00	433	49.32	0.30670	235	288
119-AL 1/28-ST6C	147.1	30	7	2.25	2.25	15.80	547	61.83	0.24230	272	331
147-AL 1/34-ST6C	181.6	30	7	2.50	2.50	17.50	676	74.22	0.19630	305	376
185-AL 1/43-ST6C	227.8	30	7	2.80	2.80	19.60	848	92.18	0.15650	350	433
234-AL 1/55-ST6C	288.3	30	7	3.15	3.15	22.10	1073	113.86	0.12360	398	499
222-AL 1/76-ST6C	297.2	36	19	2.80	2.25	22.50	1207	147.22	0.13070	388	487
326-AL 1/86-ST6C	411.7	32	19	3.60	2.40	26.40	1576	173.31	0.08890	483	608
508-AL 1/105-ST6C	612.6	66	19	3.13	2.65	32.00	2227	231.55	0.05700	606	777
717-AL 1/148-ST6C	865.4	66	19	3.72	3.15	38.10	3145	319.11	0.04030	733	954
957 -AL 1 /228-ST6C	1184.5	54	37	2.80	2.80	44.70	4434	480.75	0.03020	865	1145

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 requirements can also be designed.

ALL ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
15-AL1/3-ST1A	17.8	6	1	1.80	1.80	5.40	61.6	5.80	1.87690	75	89
24-AL 1/4-ST1A	27.8	6	1	2.25	2.25	6.75	96.3	8.95	1.20120	98	117
34-AL 1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	122	145
44-AL 1 /32-ST1 A	75.6	14	7	2.00	2.40	11.20	369.3	44.24	0.65740	146	176
48-AL 1 /8-ST1 A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	149	179
51-AL 1/30-ST1A	81.0	12	7	2.33	2.33	11.70	374.7	42.98	0.56440	158	191
70-AL 1/1 1-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	198	239
94-AL 1 /15-ST1 A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	236	287
97-AL 1/56-ST1A	152.8	12	7	3.20	3.20	16.00	706.8	77.85	0.29920	229	281
106-AL1/76-ST1A	181.2	14	19	3.10	2.25	17.50	885.3	105.82	0.27420	243	299
122-AL 1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	274	335
122-AL 1/71-ST1A	193.4	12	7	3.60	3.60	18.00	894.5	97.92	0.23640	263	324
128-AL 1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	283	347
149-AL 1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	308	378
172-AL 1/40-ST1 A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	335	414
184-AL 1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	347	429
209-AL 1/34-ST1A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	374	464
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	378	471
231-AL 1/30-ST1A	260.8	24	7	3.50	2.33	21.00	870.9	72.13	0.12500	395	491
243-AL 1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	407	508
264-AL 1/34-ST1A	297.7	24	7	3.74	2.49	22.40	994.4	81.04	0.10950	426	532
304-AL 1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	463	581
305-AL 1 /39-ST1 A	344.1	54	7	2.68	2.68	24.10	1151.2	96.80	0.09490	456	572
339-AL 1 /30-ST1 A	369.1	48	7	3.00	2.33	25.00	1171.2	91.71	0.08520	483	607
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	517	654
386-AL 1/34-ST1A	420.1	48	7	3.20	2.49	26.70	1333.6	102.56	0.07490	519	656
434-AL 1/56-ST1A	490.6	54	7	3.20	3.20	28.80	1641.3	133.59	0.06660	556	706
449-AL 1/39-ST1A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	565	717
490-AL 1/64-ST1A	553.8	54	7	3.40	3.40	30.60	1852.9	150.81	0.05900	594	758

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
494-AL 1/34-ST1A	528.4	45	7	3.74	2.49	29.90	1632.6	117.96	0.05840	595	758
511-AL 1/45-ST1A	555.8	48	7	3.68	2.87	30.70	1765.3	133.31	0.05660	606	774
550-AL 1/71-ST1A	620.9	54	7	3.60	3.60	32.40	2077.2	166.32	0.05260	633	811
562-AL 1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1939.5	146.28	0.05150	638	818
571-AL 1/39-ST1A	610.6	45	7	4.02	2.68	32.20	1887.1	136.40	0.05060	644	825
653-AL 1/45-ST1A	698.8	45	7	4.30	2.87	34.40	2159.9	156.18	0.04420	692	892
679-AL 1/86-ST1A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	709	917
1046-AL 1 /45-ST1A	1090.9	72	7	4.30	2.87	43.00	3248.2	218.92	0.02770	888	1171

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
27-AL 1/9-ST1A	36.0	8	1	2.06	3.44	7.56	145.6	15.02	1.07760	106	126
38-AL 1/13-ST1A	51.3	8	1	2.46	4.11	9.03	207.7	21.25	0.75570	131	156
40-AL 1/7-ST1A	46.2	6	1	2.90	2.90	8.70	160.0	14.27	0.72310	133	159
52-AL 1/30-ST1A	82.1	12	7	2.36	2.32	11.70	376.4	42.92	0.55010	160	194
53-AL 1/19-ST1A	71.8	8	1	2.91	4.86	10.70	290.5	29.45	0.54000	159	192
56-AL 1/9-ST1A	65.1	6	1	3.44	3.44	10.30	225.1	19.42	0.51390	162	195
79-AL 1/46-ST1A	125.5	12	7	2.90	2.90	14.50	580.5	66.18	0.36430	204	249
80-AL 1/13-ST1A	92.9	6	1	4.11	4.11	12.30	321.4	27.33	0.36000	200	242
111-AL 1/19-ST1A	129.9	6	1	4.86	4.86	14.60	449.4	38.21	0.25750	243	297
112-AL 1/65-ST1A	176.6	12	7	3.44	3.44	17.20	816.8	89.97	0.25890	249	306
112-AL 1/18-ST1A	130.0	26	7	2.34	1.82	14.80	451.2	40.87	0.25830	260	318
151-AL 1/25-ST1A	175.8	26	7	2.72	2.12	17.20	610.5	54.59	0.19120	310	381
151-AL 1/35-ST1A	186.0	30	7	2.53	2.53	17.70	692.1	65.76	0.19160	311	383
191-AL 1/31-ST1A	222.3	26	7	3.06	2.38	19.40	771.6	67.05	0.15100	355	440
191-AL 1/45-ST1A	236.0	30	7	2.85	2.85	20.00	878.2	83.44	0.15100	357	443
239-AL 1/39-ST1A	277.7	26	7	3.42	2.66	21.70	963.9	83.76	0.12090	404	503
238-AL 1/56-ST1A	293.9	30	7	3.18	3.18	22.30	1093.4	100.47	0.12130	405	505
293-AL 1/48-ST1 A	341.2	26	7	3.79	2.95	24.00	1184.3	101.47	0.09850	453	568
294-AL 1/69-ST1A	362.1	30	7	3.53	3.53	24.70	1347.3	122.33	0.09840	455	572
381-AL 1/62-ST1A	443.2	26	7	4.32	3.36	27.40	1537.9	129.25	0.07580	525	665
381-AL 1/87-ST1A	467.4	30	19	4.02	2.41	28.10	1733.6	159.73	0.07600	526	667
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	517	654
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1520.5	123.75	0.07190	533	674
476-AL 1/78-ST1A	554.1	26	7	4.83	3.76	30.60	1923.6	161.72	0.06060	595	759
477-AL 1/109-ST1A	585.9	30	19	4.50	2.70	31.50	2173.7	200.36	0.06060	597	763
476-AL 1/62-ST1A	537.7	54	7	3.35	3.35	30.20	1798.8	146.40	0.06080	585	745
525-AL 1/68-ST1A	593.6	54	7	3.52	3.52	31.70	1986.0	159.01	0.05500	618	790
565-AL 1/72-ST1A	636.6	54	19	3.65	2.19	32.90	2123.0	174.14	0.05120	642	824
606-AL 1/77-ST1A	682.9	54	19	3.78	2.27	34.00	2278.0	184.62	0.04770	667	859

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
645-AL 1/82-ST1A	726.8	54	19	3.90	2.34	35.10	2423.8	196.36	0.04480	690	891
766-AL 1/97 -ST1 A	863.1	54	19	4.25	2.55	38.30	2878.3	233.19	0.03770	756	984
806-AL 1/102-ST1A	908.7	54	19	4.36	2.62	39.30	3031.7	245.77	0.03580	777	1014
1223-AL1/307-ST1A	1529.7	72	37	4.65	3.25	50.70	5796.3	533.27	0.02370	965	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/m² Solar radiation
 customized conductor sizes based on customer's requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
606-AL 1/77-ST5E	682.9	54	19	3.78	2.27	34.00	2278.0	206.15	0.04770	667	859
766-AL 1 /97 -ST5E	863.1	54	19	4.25	2.55	38.30	2878.3	255.51	0.03770	756	984

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)
27-AL 1/4-ST1A	31.1	6	1	2.38	2.38	7.14	107.8	9.74	1.07360	105	125
47 -AL 1/8-ST1A	54.6	6	1	3.15	3.15	9.45	188.8	16.29	0.61290	146	175
67-AL1/11-ST1A	78.6	6	1	3.78	3.78	11.30	271.8	23.12	0.42560	181	219
94-AL 1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	237	288
119-AL 1 /28-ST1A	147.1	30	7	2.25	2.25	15.80	547.4	54.03	0.24230	272	333
147-AL 1/34-ST1A	181.6	30	7	2.50	2.50	17.50	675.8	64.94	0.19630	307	378
242-AL 1/39-ST1A	281.1	26	7	3.44	2.68	21.80	976.2	84.89	0.11950	406	506
337-AL 1/44-ST1A	381.0	54	7	2.82	2.82	25.40	1274.6	107.18	0.08570	483	608
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1520.5	123.75	0.07190	533	674
485-AL 1 /63-ST1A	547.3	54	7	3.38	3.38	30.40	1831.1	149.04	0.05970	590	753
565-AL 1/72-ST1A	636.6	54	19	3.65	2.19	32.90	2123.0	174.14	0.05120	642	824

NOTE :

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

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/ST1A

(Used in Switzerland)

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium	Steel	Aluminium	Steel						
		(No.)	(No.)	(mm)	(mm)						
22-AL 1/4-ST1A	25.2	6	1	2.14	2.14	6.42	87.1	8.09	1.32790	93	110
30-AL 1/5-ST1A	34.9	6	1	2.52	2.52	7.56	120.8	10.77	0.95760	112	134
43-AL 1/7-ST1A	50.1	6	1	3.02	3.02	9.06	173.5	14.97	0.66680	139	167
60-AL 1/10-ST1 A	69.7	6	1	3.56	3.56	10.70	241.1	20.50	0.47980	169	203
79-AL 1 /18-ST1 A	97.3	30	7	1.83	1.83	12.80	362.1	36.14	0.36630	213	259
97-AL 1/23-ST1A	119.8	30	7	2.03	2.03	14.20	445.6	43.98	0.29770	241	294
121-AL 1/28-ST1A	149.7	30	7	2.27	2.27	15.90	557.1	53.54	0.23810	274	336
150-AL 1/35-ST1 A	184.5	30	7	2.52	2.52	17.60	686.6	65.24	0.19320	310	381
194-AL 1/45-ST1A	239.4	30	7	2.87	2.87	20.10	890.6	84.62	0.14890	360	446
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	378	471
244-AL 1 /57-ST1 A	301.3	30	7	3.22	3.22	22.50	1121.1	103.01	0.11830	410	512
282-AL 1/66-ST1 A	347.9	30	7	3.46	3.46	24.20	1294.4	118.94	0.10250	445	558
357-AL 1/46-ST1A	402.9	54	7	2.90	2.90	26.10	1348.0	113.35	0.08110	498	628
440-AL 1 /57-ST1 A	496.7	54	7	3.22	3.22	29.00	1661.9	135.26	0.06580	560	711
487-AL 1/63-ST1A	550.6	54	7	3.39	3.39	30.50	1842.0	149.92	0.05930	593	756
531-AL 1/69-ST1A	600.4	54	7	3.54	3.54	31.90	2008.6	160.82	0.05440	621	795
748-AL 1/97-ST1A	845.2	96	19	3.15	2.55	38.00	2832.9	234.06	0.03870	756	983

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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						
		(mm ²)	(No.)	(No.)	(mm)					(mm)	(mm)
54-AL 1/9-ST1A	62.4	6	1	3.37	3.37	10.10	216	18.64	0.53550	158	190
85-AL 1/14-ST1A	99.3	6	1	4.25	4.25	12.80	344	29.22	0.33670	208	252
135-AL 1/22-ST1A	156.9	26	7	2.57	2.00	16.30	545	48.66	0.21410	291	356
201-AL 1 /33-ST1 A	234.1	26	7	3.14	2.44	19.90	812	70.53	0.14340	366	454
283-AL 1/46-ST1A	328.5	26	7	3.72	2.89	23.60	1140	97.56	0.10220	444	556
402-AL 1/52-ST1A	454.5	54	7	3.08	3.08	27.70	1521	123.75	0.07190	533	674
525-AL 1/68-ST1A	593.6	54	7	3.52	3.52	31.70	1986	159.01	0.05500	618	790
685-AL 1/89-ST1A	774.2	54	7	4.02	4.02	36.20	2590	207.39	0.04220	712	922
806-AL 1/102-ST1A	908.7	54	19	4.36	2.62	39.30	3032	245.77	0.03580	777	1014
563-AL 1/29-ST1A	592.0	42	7	4.13	2.31	31.70	1784	123.47	0.05130	638	817
735-AL 1 /38-ST1 A	772.9	42	7	4.72	2.63	36.20	2328	160.93	0.03930	735	953
865-AL 1/44-ST1A	908.8	42	7	5.12	2.83	39.20	2733	188.55	0.03340	800	1044
89-AL 1/52-ST1A	141.6	12	7	3.08	3.08	15.40	655	72.12	0.32300	219	268
117-AL1/68-ST1 A	184.9	12	7	3.52	3.52	17.60	855	93.62	0.24730	256	315
152-AL 1/89-ST1A	241.2	12	7	4.02	4.02	20.10	1115	122.10	0.18960	298	370
251-AL 1/65-ST1A	315.6	32	7	3.16	3.43	22.90	1200	112.56	0.11520	417	521

NOTE :

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

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/ST1A
(Used in United Kingdom)

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium	Steel	Aluminium	Steel						
		(No.)	(No.)	(mm)	(mm)						
11-AL 1/2-ST1A	12.4	6	1	1.50	1.50	4.50	43	4.14	2.70270	61	71
21-AL 1/3-ST1A	24.5	6	1	2.11	2.11	6.33	85	7.87	1.36590	91	108
26-AL 1/4-ST1A	30.6	6	1	2.36	2.36	7.08	106	9.58	1.09190	104	124
32-AL 1/5-ST1A	36.9	6	1	2.59	2.59	7.77	128	11.38	0.90650	116	138
37-AL 1/6-ST1A	42.8	6	1	2.79	2.79	8.37	148.1	13.21	0.78120	127	151
42-AL 1/7-ST1A	49.5	6	1	3.00	3.00	9.00	171	15.27	0.67570	138	165
53-AL 1/9-ST1A	61.7	6	1	3.35	3.35	10.10	214	18.42	0.54190	157	189
63-AL 1/11-ST1A	73.6	6	1	3.66	3.66	11.00	255	21.67	0.45400	174	210
63-AL 1/37-ST1A	100.1	12	7	2.59	2.59	13.00	463	52.79	0.45680	179	217
75-AL 1/13-ST1A	87.5	6	1	3.99	3.99	12.00	303	25.76	0.38200	193	234
73-AL 1/43-ST1A	116.2	12	7	2.79	2.79	14.00	537	61.26	0.39360	195	238
79-AL 1/13-ST1A	92.0	6	1	4.09	4.09	12.30	318	27.06	0.36350	199	241
84-AL 1/14-ST1A	97.9	6	1	4.22	4.22	12.70	339	28.81	0.34150	206	250
95-AL1/16-ST1A	111.3	6	1	4.50	4.50	13.50	385	32.76	0.30030	222	270
105-AL 1/17-ST1A	122.5	6	1	4.72	4.72	14.20	424	36.04	0.27300	235	286
105-AL 1/14-ST1A	118.5	6	7	4.72	1.57	14.20	394	32.65	0.27330	235	286
132-AL 1/20-ST1A	151.8	26	7	2.54	1.91	15.90	521	45.86	0.21920	286	350
132-AL 1/7-ST1A	138.8	18	1	3.05	3.05	15.30	419	29.74	0.21880	284	348
131-AL 1/31-ST1A	161.9	30	7	2.36	2.36	16.50	602	57.87	0.22020	287	352
158-AL 1/37-ST1A	194.9	30	7	2.59	2.59	18.10	725	68.91	0.18290	320	394
159-AL 1/9-ST1A	167.5	18	1	3.35	3.35	16.80	505	35.87	0.18140	317	389
183-AL 1/43-ST1A	226.2	30	7	2.79	2.79	19.50	842	79.97	0.15760	348	431
184-AL1/10-ST1A	194.5	18	1	3.61	3.61	18.10	587	40.74	0.15620	346	426
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973	92.46	0.13630	378	471
211-AL1/12-ST1A	222.3	18	1	3.86	3.86	19.30	671	46.57	0.13660	373	462
238-AL 1/56-ST1A	293.9	30	7	3.18	3.18	22.30	1093.4	100.47	0.12130	405	505
264-AL 1/62-ST1A	326.1	30	7	3.35	3.35	23.50	1213.4	111.50	0.10930	429	537
324-AL 1/76-ST1A	400.0	30	7	3.71	3.71	26.00	1488.2	135.13	0.08910	482	607

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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)	(Kg/km)
375-AL 1/88-ST1A	462.6	30	7	3.99	3.99	27.90	1 721.3	156.30	0.07710	522	662
374-AL 1/48-ST1A	422.6	54	7	2.97	2.97	26.70	1 413.8	118.88	0.07730	512	646
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1 442.5	121.30	0.07580	517	654
430-AL 1/100-ST1A	529.8	30	7	4.27	4.27	29.90	1 971.4	179.00	0.06730	563	717
429-AL 1/56-ST1 A	484.5	54	7	3.18	3.18	28.60	1 620.8	131.92	0.06740	552	701
477-AL1/111-ST1A	588.5	30	7	4.50	4.50	31.50	2 189.5	198.80	0.06060	597	763
476-AL 1162-ST 1A	537.7	54	7	3.35	3.35	30.20	1 798.8	146.40	0.06080	585	745
528-AL 1/69-ST1A	597.0	54	7	3.53	3.53	31.80	1 997.3	159.92	0.05470	619	793

NOTE :

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

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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						
		(mm ²)	(No.)	(No.)	(mm)					(mm)	(mm)
42-AL 1/7-ST1A	49.5	6	1	3.00	3.00	9.00	171	15.27	0.67570	138	165
68-AL 1/39-ST1A	107.2	12	7	2.68	2.68	13.40	496	56.52	0.42660	186	226
128-AL 1/21-ST1A	148.5	26	7	2.50	1.95	15.90	516	46.79	0.22630	281	345
191-AL 1/31 -ST1A	222.3	26	7	3.06	2.38	19.40	772	67.05	0.15100	355	440
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973	92.46	0.13630	378	471
265-AL 1/43-ST1A	307.8	26	7	3.60	2.80	22.80	1 068.0	91.48	0.10910	428	534
349-AL 1/79-ST1A	428.2	30	19	3.85	2.30	26.90	1 585.7	145.87	0.08280	502	634
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1 442.5	121.30	0.07580	517	654
416-AL 1193-ST 1 A	508.9	30	19	4.20	2.50	29.30	1 881.8	172.82	0.06960	553	703
434-AL 1/56-ST1 A	490.6	54	7	3.20	3.20	28.80	1 641.3	133.59	0.06660	556	706
520-AL 1 /66-ST1 A	585.3	54	19	3.50	2.10	31.50	1 952.1	162.72	0.05560	614	785
629-AL 1/79-ST1A	707.6	54	19	3.85	2.30	34.60	2 356.6	190.58	0.04600	680	877
748-AL 1/93-ST1A	841.4	54	19	4.20	2.50	37.70	2 799.3	226.03	0.03860	747	970
859-AL 1/109-ST1A	967.6	54	19	4.50	2.70	40.50	3 226.9	261.43	0.03370	801	1049
1657-AL 1/209-ST1A	1 865.4	150	37	3.75	2.68	56.30	6 222.4	503.01	0.01750	1107	1512

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 requirements can also be designed.

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/ST3D
(Used in Italy)

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium	Steel	Aluminium	Steel						
		(No.)	(No.)	(mm)	(mm)						
42-AL 1 /7 -ST3D	49.5	6	1	3.00	3.00	9.00	171	14.99	0.67570	138	165
68-AL 1/39-ST30	107.2	12	7	2.68	2.68	13.40	496	59.29	0.42660	186	226
128-AL 1/21-ST30	148.5	26	7	2.50	1.95	15.90	516	47.63	0.22630	281	345
191-AL 1/31-ST3D	222.3	26	7	3.06	2.38	19.40	772	69.23	0.15100	355	440
212-AL 1/49-ST30	261.5	30	7	3.00	3.00	21.00	973	90.48	0.13630	378	471
265-AL 1/43-ST30	307.8	26	7	3.60	2.80	22.80	1 068.0	89.76	0.10910	428	534
349-AL 1/79-ST30	428.2	30	19	3.85	2.30	26.90	1 585.7	151.40	0.08280	502	634
382-AL 1/49-ST30	431.2	54	7	3.00	3.00	27.00	1 442.5	119.32	0.07580	517	654
416-AL 1 /93-ST3D	508.9	30	19	4.20	2.50	29.30	1 881.8	179.35	0.06960	553	703
434-AL 1/56-ST30	490.6	54	7	3.20	3.20	28.80	1 641.3	133.59	0.06660	556	706
520-AL 1/66-ST3D	585.3	54	19	3.50	2.10	31.50	1 952. 1	165.35	0.05560	614	785
629-AL 1/79-ST3D	707.6	54	19	3.85	2.30	34.60	2 356.6	196. 10	0.04600	680	877
748-AL 1/93-ST30	841.4	54	19	4.20	2.50	37.70	2 799.3	232.55	0.03860	747	970
859-AL 1/109-ST30	967.6	54	19	4.50	2.70	40.50	3 226.9	269.04	0.03370	801	1049
1657-AL 1/209-ST30	1865.4	150	37	3.75	2.68	56.30	6 222.4	517.62	0.01750	1107	1512

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 requirements can also be designed.



ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE AL1/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						
		(mm ²)	(No.)	(No.)	(mm)					(mm)	(mm)
42-AL 1/7-ST4A	49.5	6	1	3.00	3.00	9.00	171	16.22	0.67570	138	165
68-AL 1/39-ST4A	107.2	12	7	2.68	2.68	13.40	496	61.85	0.42660	186	226
128-AL 1/21-ST4A	148.5	26	7	2.50	1.95	15.90	516	48.99	0.22630	281	345
191-AL 1/31-ST4A	222.3	26	7	3.06	2.38	19.40	772	71.25	0.15100	355	440
212-AL 1/49-ST4A	261.5	30	7	3.00	3.00	21.00	973	99.14	0.13630	378	471
265-AL 1/43-ST4A	307.8	26	7	3.60	2.80	22.80	1 068.0	97.30	0.10910	428	534
349-AL 1 /79-ST4A	428.2	30	19	3.85	2.30	26.90	1 585.7	156.53	0.08280	502	634
382-AL 1/49-ST4A	431.2	54	7	3.00	3.00	27.00	1 442.5	127.98	0.07580	517	654
416-AL 1/93-ST4A	508.9	30	19	4.20	2.50	29.30	1 881.8	185.42	0.06960	553	703
434-AL 1/56-ST4A	490.6	54	7	3.20	3.20	28.80	1 641.3	140.62	0.06660	556	706
520-AL 1/66-ST4A	585.3	54	19	3.50	2.10	31.50	1 952.1	169.63	0.05560	614	785
629-AL 1/79-ST4A	707.6	54	19	3.85	2.30	34.60	2 356.6	201.23	0.04600	680	877
748-AL 1/93-ST4A	841.4	54	19	4.20	2.50	37.70	2 799.3	238.62	0.03860	747	970
859-AL 1/109-ST4A	967.6	54	19	4.50	2.70	40.50	3 226.9	276. 11	0.03370	801	1049
1657-AL 1/209-ST4A	1865.4	150	37	3.75	2.68	56.30	6 222.4	531. 19	0.01750	1107	1512

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 requirements can also be designed.

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)	(Kg/km)
16-A1/S1A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.24	1.79300	77	91
25-A1/S1A-6/1	29.2	6	1	2.30	2.30	6.91	101	9.38	1.14800	101	120
40-A1/S1A-6/1	46.7	6	1	2.91	2.91	8.74	162	14.60	0.71740	133	159
63-A1/S1A-6/1	73.5	6	1	3.66	3.66	11.00	255	22.30	0.45550	174	210
100-A1/S1A-6/1	116.7	6	1	4.61	4.61	13.80	405	34.80	0.28690	228	278
125-A1/S1A-18/1	131.9	18	1	2.97	2.97	14.90	399	29.80	0.23040	276	337
125-A1/S1A-26/7	145.4	26	7	2.47	1.92	15.70	505	46.90	0.23100	278	340
160-A1/S1A-18/1	168.9	18	1	3.36	3.36	16.80	510	37.00	0.18000	318	391
160-A1/S1A-26/7	186.1	26	7	2.80	2.18	17.70	646	58.50	0.18050	321	395
200-A1/S1A-18/1	211.1	18	1	3.76	3.76	18.80	638	45.20	0.14400	362	447
200-A1/S1A-26/7	232.6	26	7	3.13	2.43	19.80	808	71.10	0.14440	364	452
250-A1/S1A-22/7	274.6	22	7	3.80	2.11	21.60	882	70.00	0.11540	413	514
250-A1/S1A-26/7	290.7	26	7	3.50	2.72	22.20	1010	88.90	0.11550	414	517
315-A1/S1A-45/7	336.8	45	7	2.99	1.99	23.90	1042	80.60	0.09173	463	581
315-A1/S1A-26/7	366.3	26	7	3.93	3.05	24.90	1272	108.00	0.09167	472	593
400-A1/S1A-45/7	427.7	45	7	3.36	2.24	26.90	1323	100.00	0.07224	529	669
400-A1/S1A-54/7	451.9	54	7	3.07	3.07	27.60	1513	125.00	0.07231	531	672
450-A1/S1A-45/7	481.1	45	7	3.57	2.38	28.50	1488	112.00	0.06421	565	717
450-A1/S1A-54/7	508.3	54	7	3.26	3.26	29.30	1703	141.00	0.06427	567	721

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 requirements can also be designed.

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)
16-A1/S2A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.61	1.79300	77	91
25-A1/S2A-6/1	29.2	6	1	2.30	2.30	6.91	101	9.96	1.14800	101	120
40-A1/S2A-6/1	46.7	6	1	2.91	2.91	8.74	162	15.50	0.71740	133	159
63-A1/S2A-6/1	73.5	6	1	3.66	3.66	11.00	255	23.00	0.45550	174	210
100-A1/S2A-6/1	116.7	6	1	4.61	4.61	13.80	405	36.00	0.28690	228	278
125-A1/S2A-18/1	131.9	18	1	2.97	2.97	14.90	399	30.80	0.23040	276	337
125-A1/S2A-26/7	145.4	26	7	2.47	1.92	15.70	505	49.80	0.23100	278	340
160-A1/S2A-18/1	168.9	18	1	3.36	3.36	16.80	510	38.20	0.18000	318	391
160-A1/S2A-26/7	186.1	26	7	2.80	2.18	17.70	646	62.10	0.18050	321	395
200-A1/S2A-18/1	211.1	18	1	3.76	3.76	18.80	638	46.00	0.14400	362	447
200-A1/S2A-26/7	232.6	26	7	3.13	2.43	19.80	808	75.70	0.14440	364	452
250-A1/S2A-22/7	274.6	22	7	3.80	2.11	21.60	882	73.40	0.11540	413	514
250-A1/S2A-26/7	290.7	26	7	3.50	2.72	22.20	1010	94.60	0.11550	414	517
315-A1/S2A-45/7	336.8	45	7	2.99	1.99	23.90	1042	83.70	0.09173	463	581
315-A1/S2A-26/7	366.3	26	7	3.93	3.05	24.90	1272	116.00	0.09167	472	593
400-A1/S2A-45/7	427.7	45	7	3.36	2.24	26.90	1323	104.00	0.07224	529	669
400-A1/S2A-54/7	451.9	54	7	3.07	3.07	27.60	1513	132.00	0.07231	531	672
450-A1/S2A-45/7	481.1	45	7	3.57	2.38	28.50	1488	116.00	0.06421	565	717
450-A1/S2A-54/7	508.3	54	7	3.26	3.26	29.30	1703	149.00	0.06427	567	721
500-A1/S2A-45/7	534.6	45	7	3.76	2.51	30.10	1653	127.00	0.05779	599	763
500-A1/S2A-54/7	564.8	54	7	3.43	3.43	30.90	1892	165.00	0.05785	601	767
560-A1/S2A-45/7	598.7	45	7	3.98	2.65	31.80	1852	142.00	0.05160	637	815
560-A1/S2A-54/19	630.9	54	19	3.63	2.18	32.70	2108	188.00	0.05165	639	820
630-A1/S2A-45/7	673.6	45	7	4.22	2.81	33.80	2083	160.00	0.04586	679	874
630-A1/S2A-54/19	709.8	54	19	3.85	2.31	34.70	2371	206.00	0.04591	681	878
710-A1/S2A-45/7	759.1	45	7	4.48	2.99	35.90	2348	180.00	0.04070	723	936

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 requirements can also be designed.

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)
710-A1/S2A-54/19	799.9	54	19	4.09	2.45	36.80	2672	232.00	0.04074	726	941
800-A1/S2A-72/7	834.6	72	7	3.76	2.51	37.60	2485	176.00	0.03615	777	1010
800-A1/S2A-84/7	866.7	84	7	3.48	3.48	38.30	2738	219.00	0.03618	780	1015
800-A1/S2A-54/19	901.3	54	19	4.34	2.61	39.10	3011	262.00	0.03615	773	1008
900-A1/S2A-72/7	938.9	72	7	3.99	2.66	39.90	2796	198.00	0.03213	825	1079
900-A1/S2A-84/7	975.0	84	7	3.69	3.69	40.60	3080	241.00	0.03216	828	1085
1000-A1/S2A-72/7	1043.0	72	7	4.21	2.80	42.10	3106	220.00	0.02892	869	1144
1120-A1/S2A-72/19	1167.0	72	19	4.45	1.78	44.50	3472	247.00	0.02582	918	1216
1120-A1/S2A-84/19	1211.0	84	19	4.12	2.47	45.30	3819	302.00	0.02584	923	1224
1250-A1/S2A-72/19	1303.0	72	19	4.70	1.88	47.00	3875	275.00	0.02314	966	1288
1250-A1/S2A-84/19	1352.0	84	19	4.35	2.61	47.90	4262	337.00	0.02315	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/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

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)	(Kg/km)
16-A1/S3A-6/1	18.7	6	1	1.84	1.84	5.53	65	6.99	1.79300	77	91
25-A1/S3A-6/1	29.2	6	1	2.30	2.30	6.91	101	10.50	1.14800	101	120
40-A1/S3A-6/1	46.7	6	1	2.91	2.91	8.74	162	16.40	0.71740	133	159
63-A1/S3A-6/1	73.5	6	1	3.66	3.66	11.00	255	24.80	0.25490	232	280
100-A1/S3A-6/1	116.7	6	1	4.61	4.61	13.80	405	38.80	0.28690	228	278
125-A1/S3A-18/1	131.9	18	1	2.97	2.97	14.90	399	31.70	0.23040	276	337
125-A1/S3A-26/7	145.4	26	7	2.47	1.92	15.70	505	52.60	0.23100	278	340
160-A1/S3A-18/1	168.9	18	1	3.36	3.36	16.80	510	39.50	0.18000	318	391
160-A1/S3A-26/7	186.1	26	7	2.80	2.18	17.70	646	65.80	0.18050	321	395
200-A1/S3A-18/1	211.1	18	1	3.76	3.76	18.80	638	47.90	0.14400	362	447
200-A1/S3A-26/7	232.6	26	7	3.13	2.43	19.80	808	79.90	0.14440	364	452
250-A1/S3A-22/7	274.6	22	7	3.80	2.11	21.60	882	76.90	0.11540	413	514
250-A1/S3A-26/7	290.7	26	7	3.50	2.72	22.20	1010	99.90	0.11550	414	517
315-A1/S3A-45/7	336.8	45	7	2.99	1.99	23.90	1042	86.70	0.09173	463	581
315-A1/S3A-26/7	366.3	26	7	3.93	3.05	24.90	1272	123.00	0.09167	472	593
400-A1/S3A-45/7	427.7	45	7	3.36	2.24	26.90	1323	108.00	0.07224	529	669
400-A1/S3A-54/7	451.9	54	7	3.07	3.07	27.60	1513	140.00	0.07231	531	672
450-A1/S3A-45/7	481.1	45	7	3.57	2.38	28.50	1488	120.00	0.06421	565	717
450-A1/S3A-54/7	508.3	54	7	3.26	3.26	29.30	1703	157.00	0.06427	567	721
500-A1/S3A-45/7	534.6	45	7	3.76	2.51	30.10	1653	131.00	0.05779	599	763
500-A1/S3A-54/7	564.8	54	7	3.43	3.43	30.90	1892	174.00	0.05785	601	767
560-A1/S3A-45/7	598.7	45	7	3.98	2.65	31.80	1852	147.00	0.05160	637	815
560-A1/S3A-54/19	630.9	54	19	3.63	2.18	32.70	2108	198.00	0.05165	639	820
630-A1/S3A-45/7	673.6	45	7	4.22	2.81	33.80	2083	165.00	0.04586	679	874
630-A1/S3A-54/19	709.8	54	19	3.85	2.31	34.70	2371	217.00	0.04591	681	878
710-A1/S3A-45/7	759.1	45	7	4.48	2.99	35.90	2348	186.00	0.04070	723	936

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 requirements can also be designed.



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)
710-A1/S3A-54/19	799.9	54	19	4.09	2.45	36.80	2672	244.00	0.04074	726	941
800-A1/S3A-72/7	834.6	72	7	3.76	2.51	37.60	2485	181.00	0.03615	777	1010
800-A1/S3A-84/7	866.7	84	7	3.48	3.48	38.30	2738	228.00	0.03618	780	1015
800-A1/S3A-54/19	901.3	54	19	4.34	2.61	39.10	3011	275.00	0.03615	773	1008
900-A1/S3A-72/7	938.9	72	7	3.99	2.66	39.90	2796	203.00	0.03213	825	1079
900-A1/S3A-84/7	975.0	84	7	3.69	3.69	40.60	3080	254.00	0.03216	828	1085
1000-A1/S3A-72/7	1043.0	72	7	4.21	2.80	42.10	3106	226.00	0.02892	869	1144
1120-A1/S3A-72/19	1167.0	72	19	4.45	1.78	44.50	3472	253.00	0.02582	918	1216
1120-A1/S3A-84/19	1211.0	84	19	4.12	2.47	45.30	3819	313.00	0.02584	923	1224
1250-A1/S3A-72/19	1303.0	72	19	4.70	1.88	47.00	3875	283.00	0.02314	966	1288
1250-A1/S3A-84/19	1352.0	84	19	4.35	2.61	47.90	4262	350.00	0.02315	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/m² Solar radiation customized conductor sizes based on customer's requirements can also be designed.

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)	(Ampere)
Wren	8-A1/S1A-6/1	9.8	6	1	1.33	1.33	4.00	34	3.31	3.42800	53	62
Warbler	11-A1/S1A-6/1	12.3	6	1	1.50	1.50	4.49	43	4.17	2.72000	60	71
Turkey	13-A1/S1A-6/1	15.5	6	1	1.68	1.68	5.04	54	5.19	2.15700	69	82
Thrush	17-A1/S1A-6/1	19.6	6	1	1.89	1.89	5.66	68	6.54	1.71100	80	94
Swan	21-A1/S1A-6/1	24.7	6	1	2.12	2.12	6.36	86	8.14	1.35700	91	108
Swallow	27-A1/S1A-6/1	31.1	6	1	2.38	2.38	7.14	108	10.00	1.07600	105	125
Sparrow	34-A1/S1A-6/1	39.2	6	1	2.67	2.67	8.01	136	12.40	0.85320	120	143
Robin	42-A1/S1A-6/1	49.5	6	1	3.00	3.00	9.00	171	15.50	0.67660	138	165
Raven	54-A1/S1A-6/1	62.4	6	1	3.37	3.37	10.10	216	18.90	0.53620	158	190
Quail	67-A1/S1A-6/1	78.7	6	1	3.78	3.78	11.30	273	23.50	0.42550	181	219
Pigeon	85-A1/S1A-6/1	99.2	6	1	4.25	4.25	12.70	344	29.60	0.33750	207	252
Penguin	107-A1/S1A-6/1	125.1	6	1	4.77	4.77	14.30	433	37.40	0.26770	238	290
Partridge	135-A1/S1A-26/7	157.2	26	7	2.57	2.00	16.30	546	50.10	0.21360	291	357
Owl	135-A1/S1A-6/7	152.7	6	7	5.36	1.79	16.10	508	42.10	0.21230	272	333
Waxwing	135-A1/S1A-18/1	142.7	18	1	3.09	3.09	15.50	431	31.20	0.21300	289	353
Piper	152-A1/S1A-30/7	187.5	30	7	2.54	2.54	17.80	697	67.80	0.19000	313	385
Ostrich	152-A1/S1A-26/7	176.8	26	7	2.73	2.12	17.30	614	56.30	0.19000	311	383
Phoebe	152-A1/S1A-18/1	160.5	18	1	3.28	3.28	16.40	485	35.10	0.18950	309	379
Oriole	170-A1/S1A-30/7	210.2	30	7	2.69	2.69	18.80	782	76.00	0.16940	334	413
Linnet	170-A1/S1A-26/7	198.2	26	7	2.89	2.25	18.30	688	62.30	0.16940	333	410
Merlin	170-A1/S1A-18/1	179.9	18	1	3.47	3.47	17.40	544	39.40	0.16900	330	406
Lark	201-A1/S1A-30/7	248.4	30	7	2.92	2.92	20.50	924	88.80	0.14340	368	456
Ibis	201-A1/S1A-26/7	234.2	26	7	3.14	2.44	19.90	813	71.60	0.14340	366	454
Chickadee	201-A1/S1A-18/1	212.6	18	1	3.77	3.77	18.90	642	45.50	0.14300	363	449
Hen	242-A1/S1A-30/7	298.1	30	7	3.20	3.20	22.40	1109	103.00	0.11950	408	509
Hawk	242-A1/S1A-26/7	281.1	26	7	3.44	2.68	21.80	974	86.00	0.11950	406	506
Toucan	242-A1/S1A-22/7	265.4	22	7	3.74	2.08	21.20	853	68.90	0.11930	405	504
Pelican	242-A1/S1A-18/1	255.1	18	1	4.13	4.13	20.70	770	54.60	0.11920	403	501
Heron	253-A1/S1A-30/7	312.5	30	7	3.28	3.28	23.00	1162	108.00	0.11400	419	524
Eagle	282-A1/S1A-30/7	347.8	30	7	3.46	3.46	24.20	1293	120.00	0.10240	445	558
Dove	282-A1/S1A-26/7	327.9	26	7	3.72	2.89	23.50	1136	100.00	0.10240	443	555
Sapsucker	282-A1/S1A-22/7	309.7	22	7	4.04	2.24	22.90	995	78.90	0.10230	442	552

NOTE :

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

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					(Ampere)	(Ampere)
Duck	307-A1/S1A-54/7	346.3	54	7	2.69	2.69	24.20	1159	101.00	0.09435	457	574
Egret	322-A1/S1A-30/19	395.7	30	19	3.70	2.22	25.90	1467	141.00	0.08960	480	605
Grosbeak	322-A1/S1A-26/7	374.8	26	7	3.97	3.09	25.20	1301	111.00	0.08960	478	601
Goose	322-A1/S1A-54/7	364.1	54	7	2.76	2.76	24.80	1219	104.00	0.08975	470	591
Goldfinch	322-A1/S1A-22/7	353.9	22	7	4.32	2.40	24.50	1137	89.30	0.08949	477	598
Gull	338-A1/S1A-54/7	381.5	54	7	2.82	2.82	25.40	1277	109.00	0.08563	483	608
Redwing	363-A1/S1A-30/19	445.2	30	19	3.92	2.35	27.50	1650	154.00	0.07964	513	649
Starling	363-A1/S1A-26/7	421.6	26	7	4.21	3.28	26.70	1463	125.00	0.07964	511	645
Crow	363-A1/S1A-54/7	409.4	54	7	2.92	2.92	26.30	1370	117.00	0.07978	503	634
Mallard	403-A1/S1A-30/19	658.0	30	19	4.13	4.13	37.20	3113	347.00	0.07168	560	726
Drake	403-A1/S1A-26/7	468.4	26	7	4.44	3.45	28.10	1626	139.00	0.07168	542	687
Condor	403-A1/S1A-54/7	455.0	54	7	3.08	3.08	27.70	1523	126.00	0.07180	533	675
Macaw	403-A1/S1A-42/7	423.5	42	7	3.49	1.94	26.80	1276	92.70	0.07173	531	671
Crane	443-A1/S1A-54/7	500.5	54	7	3.23	3.23	29.10	1675	138.00	0.06527	562	714
Canary	456-A1/S1A-54/7	515.2	54	7	3.28	3.28	29.50	1725	143.00	0.06342	571	727
Cardinal	483-A1/S1A-54/7	546.2	54	7	3.38	3.38	30.40	1829	151.00	0.05983	590	752
Phoenix	483-A1/S1A-42/7	509.5	42	7	3.83	2.13	29.50	1541	110.00	0.05977	588	748
Curlew	524-A1/S1A-54/7	591.4	54	7	3.51	3.51	31.60	1979	164.00	0.05523	616	788
Snowbird	524-A1/S1A-42/7	550.5	42	7	3.98	2.21	30.50	1658	118.00	0.05518	613	782
Finch	564-A1/S1A-54/19	635.5	54	19	3.65	2.19	32.80	2122	180.00	0.05128	642	823
Beaumont	564-A1/S1A-42/7	593.1	42	7	4.13	2.30	31.70	1787	126.00	0.05123	639	817
Grackle	604-A1/S1A-54/19	681.1	54	19	3.77	2.27	34.00	2275	190.00	0.04787	666	857
Pheasant	645-A1/S1A-54/19	726.2	54	19	3.90	2.34	35.10	2425	200.00	0.04487	689	890
Scissortail	645-A1/S1A-42/7	677.8	42	7	4.42	2.46	33.90	2042	144.00	0.04483	686	883
Martin	685-A1/S1A-54/19	771.5	54	19	4.02	2.41	36.20	2575	212.00	0.04223	712	922
Plover	725-A1/S1A-54/19	816.9	54	19	4.13	2.48	37.20	2727	224.00	0.03989	734	953
Parrot	765-A1/S1A-54/19	862.4	54	19	4.25	2.55	38.20	2879	237.00	0.03779	755	983
Falcon	806-A1/S1A-54/19	908.1	54	19	4.36	2.62	39.30	3033	250.00	0.03590	776	1013

NOTE :

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



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

Extra-High-Strength Strandings

Conductor Name	Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
			Aluminium	Steel	Aluminium	Steel						
			(No.)	(No.)	(mm)	(mm)						
Bantam	7-A1/S1A-3/4	15.5	3	4	1.68	1.68	5.04	88	11.70	4.31900	49	58
Magpie	11-A1/S1A-3/4	24.7	3	4	2.12	2.12	6.35	141	18.50	2.71300	65	77
Shrike	17-A1/S1A-3/4	39.2	3	4	2.67	2.67	8.02	223	28.60	1.70500	85	102
Snipe	27-A1/S1A-3/4	62.5	3	4	3.37	3.37	10.10	355	43.80	1.07200	112	135
Loon	34-A1/S1A-3/4	78.6	3	4	3.78	3.78	11.30	447	54.90	0.85120	128	155
Grouse	41-A1/S1A-8/1	54.7	8	1	2.54	4.24	9.32	221	22.80	0.70640	136	163
Petrel	52-A1/S1A-12/7	81.7	12	7	2.34	2.34	11.70	377	43.90	0.55510	160	193
Leghorn	68-A1/S1A-12/7	108.0	12	7	2.69	2.69	13.40	498	57.60	0.41980	188	228
Leghorn	81-A1/S1A-12/7	127.4	12	7	2.92	2.92	14.60	588	67.50	0.35540	207	253
Dotterel	90-A1/S1A-12/7	141.8	12	7	3.08	3.08	15.40	654	72.60	0.31950	220	269
Dorking	97-A1/S1A-12/7	153.0	12	7	3.20	3.20	16.00	705	78.40	0.29620	230	282
Auk	103-A1/S1A-8/7	130.7	8	7	4.05	2.25	14.80	500	49.50	0.27840	234	286
Brahma	103-A1/S1A-16/19	194.8	16	19	2.86	2.48	18.10	1002	123.00	0.27810	242	299
Cochin	107-A1/S1A-12/7	169.5	12	7	3.37	3.37	16.90	782	86.90	0.26740	244	300

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 requirements can also be designed.

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)	(Kg/km)
-	237-A1/S1A-26/7	276.1	26	7	3.41	2.65	21.60	958	84.40	0.12160	402	501
-	251-A1/S1A-22/7	275.5	22	7	3.81	2.12	21.60	885	70.30	0.11500	413	515
-	264-A1/S1A-18/1	278.5	18	1	4.32	4.32	21.60	841	59.70	0.10920	424	528
Abitibi	264-A1/S1A-18/7	275.2	18	7	4.32	1.44	21.60	816	56.90	0.10920	424	528
-	266-A1/S1A-26/7	309.5	26	7	3.61	2.81	22.90	1075	94.70	0.10850	429	536
-	282-A1/S1A-22/7	309.6	22	7	4.04	2.24	22.90	994	78.80	0.10230	442	552
-	295-A1/S1A-18/1	311.7	18	1	4.57	4.57	22.90	942	66.80	0.09755	452	565
-	297-A1/S1A-18/7	309.2	18	7	4.58	1.52	22.90	917	63.80	0.09712	453	566
-	296-A1/S1A-26/7	344.6	26	7	3.81	2.96	24.10	1196	103.80	0.09741	456	572
-	314-A1/S1A-22/7	344.2	22	7	4.26	2.36	24.10	1105	86.70	0.09198	469	588
Peace River	317-A1/S1A-48/7	344.9	48	7	2.90	2.25	24.10	1094	88.10	0.09114	465	583
-	327-A1/S1A-42/7	344.1	42	7	3.15	1.75	24.10	1037	75.30	0.08828	472	593
-	328-A1/S1A-26/7	381.9	26	7	4.01	3.12	25.40	1326	113.00	0.08794	483	608
Grand Rapid	347-A1/S1A-22/7	380.9	22	7	4.48	2.49	25.40	1224	96.10	0.08317	497	625
-	361-A1/S1A-42/7	380.0	42	7	3.31	1.84	25.40	1145	83.20	0.07995	500	629
-	362-A1/S1A-26/7	421.1	26	7	4.21	3.28	26.70	1462	125.00	0.07978	510	645
-	383-A1/S1A-22/7	420.8	22	7	4.71	2.61	26.70	1351	106.00	0.07524	525	663
-	399-A1/S1A-42/7	420.0	42	7	3.48	1.93	26.70	1265	91.90	0.07233	528	667
-	397-A1/S1A-26/7	461.8	26	7	4.41	3.43	27.90	1603	137.00	0.07271	537	681
-	423-A1/S1A-48/7	460.5	48	7	3.35	2.61	27.90	1463	115.00	0.06830	547	692
Les Boules	439-A1/S1A-42/7	461.9	42	7	3.65	2.02	27.90	1391	101.00	0.06575	557	706
-	434-A1/S1A-26/7	504.8	26	7	4.61	3.59	29.20	1753	150.00	0.06654	565	718
-	445-A1/S1A-54/7	503.3	54	7	3.24	3.25	29.20	1686	140.00	0.06496	564	717
-	462-A1/S1A-48/7	502.8	48	7	3.50	2.73	29.20	1597	125.00	0.06257	574	729
-	479-A1/S1A-42/7	503.5	42	7	3.81	2.12	29.20	1517	108.00	0.06034	584	743
-	474-A1/S1A-26/7	551.3	26	7	4.82	3.74	30.50	1912	163.00	0.06086	593	756
-	487-A1/S1A-54/7	550.6	54	7	3.39	3.39	30.50	1843	152.00	0.05934	592	756
-	505-A1/S1A-48/7	549.3	48	7	3.66	2.84	30.50	1743	136.00	0.05722	603	769

NOTE :

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



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)	(Ampere)
Carillon	523-A1/S1A-42/7	549.4	42	7	3.98	2.21	30.50	1655	118.00	0.05530	613	782
-	571-A1/S1A-54/19	643.5	54	19	3.67	2.20	33.00	2147	182.00	0.05063	646	829
Gatineau	591-A1/S1A-48/7	643.3	48	7	3.96	3.08	33.00	2042	155.00	0.04888	656	843
-	613-A1/S1A-42/7	644.2	42	7	4.31	2.39	33.00	1940	137.00	0.04715	668	858
-	662-A1/S1A-54/19	745.5	54	19	3.95	2.37	35.60	2489	205.00	0.04371	699	904
Bersfort	687-A1/S1A-48/7	748.0	48	7	4.27	3.32	35.60	2374	180.00	0.04204	712	920
-	710-A1/S1A-42/7	746.8	42	7	4.64	2.58	35.60	2250	159.00	0.04069	722	934
-	787-A1/S1A-48/7	857.0	48	7	4.57	3.56	38.10	2722	207.00	0.03670	764	995
-	794-A1/S1A-84/7	860.2	84	7	3.47	3.46	38.10	2715	207.00	0.03643	777	1011
-	821-A1/S1A-72/7	856.3	72	7	3.81	2.54	38.10	2549	176.00	0.03523	787	1025
-	898-A1/S1A-84/7	973.6	84	7	3.69	3.70	40.60	3076	236.00	0.03222	827	1084
-	932-A1/S1A-72/7	972.5	72	7	4.06	2.71	40.60	2895	200.00	0.03103	840	1100
-	1019-A1/S1A-84/7	1103.0	84	7	3.93	3.92	43.20	3483	261.00	0.02840	881	1162
-	1055-A1/S1A-72/7	1101.0	72	7	4.32	2.88	43.20	3277	226.00	0.02740	892	1178
-	1077-A1/S1A-84/19	1165.0	84	19	4.04	2.43	44.50	3671	278.00	0.02688	905	1198
-	1115-A1/S1A-72/19	1162.0	72	19	4.44	1.78	44.50	3455	239.00	0.02594	916	1213

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 requirements can also be designed.

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

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium	Steel	Aluminium	Steel						
		(No.)	(No.)	(mm)	(mm)						
TURKEY	13.30/ 2.22	6	1	1.68	1.68	5.04	54	5.31	2.15700	69	82
THRUSH	16.83/2.81	6	1	1.89	1.89	5.67	68	6.65	1.70460	80	94
SWAN	21.18/ 3.53	6	1	2.12	2.12	6.36	86	8.30	1.35450	91	108
SWALLOW	26.69/ 4.45	6	1	2.38	2.38	7.14	108	10.23	1.07490	105	125
SPARROW	33.59/ 5.60	6	1	2.67	2.67	8.01	136	12.65	0.85410	120	143
ROBIN	42.41/ 7.07	6	1	3.00	3.00	9.00	171	15.85	0.67640	138	165
RAVEN	53.52/ 8.92	6	1	3.37	3.37	10.11	216	19.46	0.53600	158	190
QUAIL	67.33/ 11.22	6	1	3.78	3.78	11.34	272	23.53	0.42610	181	219
PIGEON	85.12/14.19	6	1	4.25	4.25	12.75	344	29.42	0.33700	208	252
PENGUIN	107.22/17.87	6	1	4.77	4.77	14.31	433	37.06	0.26760	238	290
WAXWING	134.98/ 7.50	18	1	3.09	3.09	15.45	431	31.22	0.21360	288	353
PARTRIDGE	134.87/ 21.99	26	7	2.57	2.00	16.28	546	50.11	0.21480	290	356
OSTRICH	152.19/ 24.71	26	7	2.73	2.12	17.28	615	56.41	0.19040	311	382
MERLIN	170.22/ 9.46	18	1	3.47	3.47	17.45	543	39.37	0.16940	330	406
LINNET	170.55/ 27.83	26	7	2.89	2.25	18.31	690	62.91	0.16990	332	410
ORIOLE	170.50/ 39.78	30	7	2.69	2.69	18.83	784	77.26	0.17030	333	412
CHICKADEE	200.93/ 11.16	18	1	3.77	3.77	18.85	641	45.13	0.14350	363	448
BRANT	201.56/ 26.13	24	7	3.27	2.18	19.62	763	65.10	0.14370	365	452
IBIS	201.34/ 32.73	26	7	3.14	2.44	19.88	814	72.42	0.14390	365	453
LARK	200.90/ 46.88	30	7	2.92	2.92	20.44	924	90.49	0.14460	366	454
PELICAN	242.31/ 13.46	18	1	4.14	4.14	20.70	773	53.50	0.11900	404	502
FLICKER	241.58/ 31.40	24	7	3.58	2.39	21.49	915	76.55	0.11990	405	504
HAWK	241.65/ 39.49	26	7	3.44	2.68	21.80	978	87.18	0.11990	406	505
HEN	241.27/ 56.30	30	7	3.20	3.20	22.40	1110	105.60	0.12040	406	507
OSPREY	282.47/ 15.89	18	1	4.47	4.47	22.35	901	62.37	0.10210	441	550
PARAKEET	282.31/ 36.60	24	7	3.87	2.58	23.22	1068	88.29	0.10260	442	553
DOVE	282.59/ 45.92	26	7	3.72	2.89	23.55	1142	100.80	0.10250	443	555

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 requirements can also be designed.

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

Code Name	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
EAGLE	282.07/ 65.82	30	7	3.46	3.46	24.22	1298	123.50	0.10300	444	557
PEACOCK	306.13/ 39.78	24	7	4.03	2.69	24.19	1159	95.86	0.09460	463	581
SQUAB	305.83/ 49.81	26	7	3.87	3.01	24.51	1236	108.10	0.09470	464	582
WOOD DUCK	307.06/ 71.65	30	7	3.61	3.61	25.27	1413	128.70	0.09460	466	586
TEAL	307.06/ 69.62	30	19	3.61	2.16	25.24	1398	133.10	0.09460	466	586
DUCK	306.89/ 39.78	54	7	2.69	2.69	24.21	1161	98.87	0.09440	457	574
KINGBIRD	323.01/ 17.95	18	1	4.78	4.78	23.90	1030	71.33	0.08930	475	596
ROOK	323.07/ 41.88	24	7	4.14	2.76	24.84	1222	101.00	0.08970	477	599
GROSBEAK	321.84/ 52.49	26	7	3.97	3.09	25.15	1302	111.90	0.09000	477	600
SCOTER	322.56/ 75.26	30	7	3.70	3.70	25.90	1484	135.20	0.09000	479	604
EGRET	322.56/ 73.54	30	19	3.70	2.22	25.90	1472	140.30	0.09000	479	604
GOOSE	323.07/ 41.88	54	7	2.76	2.76	24.84	1222	104.10	0.08970	471	591
FLAMINGO	337.27/ 43.72	24	7	4.23	2.82	25.38	1276	105.50	0.08590	489	615
GANNET	338.26/ 54.90	26	7	4.07	3.16	25.76	1366	117.30	0.08570	490	618
STILT	363.27/ 46.88	24	7	4.39	2.92	26.32	1373	113.40	0.07980	509	642
STARLING	361.93/ 59.15	26	7	4.21	3.28	26.68	1464 .8	126.00	0.08000	510	644
REDWING	362.06/ 82.41	30	19	3.92	2.35	27.43	1651	153.70	0.08020	511	647
CUCKOO	402.33/ 52.15	24	7	4.62	3.08	27.72	1522	123.80	0.07200	539	683
DRAKE	402.56/ 65.44	26	7	4.44	3.45	28.11	1627	139.70	0.07200	541	685
MALLARD	403.84/ 91.78	30	19	4.14	2.48	28.96	1840	171.20	0.07190	543	690
TERN	403.77/ 27.83	45	7	3.38	2.25	27.03	1336	98.20	0.07180	531	672
CONDOR	402.33/ 52.15	54	7	3.08	3.08	27.72	1522	125.10	0.07200	532	674
RUDDY	455.50/ 31.67	45	7	3.59	2.40	28.74	1509	109.00	0.06360	568	722
CANARY	456.28/ 59.15	54	7	3.28	3.28	29.52	1726	141.80	0.06350	571	726
RAIL	483.95/ 33.54	45	7	3.70	2.47	29.61	1603	115.60	0.05990	587	748
CARDINAL	484.53/ 62.81	54	7	3.38	3.38	30.42	1833	150.60	0.05980	590	752
ORTOLAN	523.87/ 36.31	45	7	3.85	2.57	30.81	1735	123.30	0.05530	614	784

NOTE :

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

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)
CURLEW	522.52/ 67.73	54	7	3.51	3.51	31.59	1977	162.40	0.05540	615	787
BLUEJAY	565.49/ 38.90	45	7	4.00	2.66	31.98	1871	132.70	0.05120	640	819
FINCH	565.03/ 71.57	54	19	3.65	2.19	32.85	2133	174.10	0.05150	640	822
BUNTING	605.76/ 41.88	45	7	4.14	2.76	33.12	2005	142.40	0.04780	664	853
GRACKLE	602.79/ 76.89	54	19	3.77	2.27	33.97	2280	186.40	0.04830	663	853
BITTERN	644.41/44.66	45	7	4.27	2.85	34.17	2134	151.60	0.04500	686	884
PHEASANT	645.08/ 81.71	54	19	3.90	2.34	35.10	2436	194.10	0.04510	688	888
DIOPPER	684.24/ 47.20	45	7	4.40	2.93	35.19	2264	160.70	0.04230	709	915
MARTIN	685.39/ 86.67	54	19	4.02	2.41	36.17	2587	206.10	0.04250	710	919
BOBOLINK	725.27/ 50.14	45	7	4.53	3.02	36.24	2401	170.50	0.03990	731	947
PLOVER	726.92/ 91.78	54	19	4.14	2.48	37.24	2742	218.40	0.04010	732	951
NUTHATCH	764.20/ 52.83	45	7	4.65	3.10	37.20	2530	177.60	0.03790	751	975
PARROT	766.06/ 97.03	54	19	4.25	2.55	38.25	2892	230.50	0.03800	753	980
LAPWING	807.53/ 55.60	45	7	4.78	3.18	38.22	2672	187.40	0.03590	772	1006
FALCON	806.23/ 102.43	54	19	4.36	2.62	39.26	3046	243.00	0.03610	774	1010
CHUKAR	903.18/ 73.54	84	19	3.70	2.22	40.70	3090	227.00	0.03220	828	1085
BLUEBIRD	1092.85/ 88.84	84	19	4.07	2.44	44.76	3738	268.00	0.02660	910	1205
KIWI	1099.77/ 47.52	72	7	4.41	2.94	44.10	3433	221.70	0.02650	907	1200
THRASHER	1171.42/ 63.94	76	19	4.43	2.07	45.79	3762	251.90	0.02490	936	1244
GROUSE	40.54/ 14.12	8	1	2.54	4.24	9.32	222	23.10	0.71110	135	162
PETREL	51.61 /30.10	12	7	2.34	2.34	11.70	378	46.20	0.56130	159	192
MINORCA	56.11/ 32.73	12	7	2.44	2.44	12.20	411	50.24	0.51630	167	202
LEGHORN	68.20/ 39.78	12	7	2.69	2.69	13.45	500	60.60	0.42480	187	227
GUINEA	80.36/ 46.88	12	7	2.92	2.92	14.60	589	71.18	0.36050	206	251
DOTTEREL	89.41/ 52.15	12	7	3.08	3.08	15.40	655	76.84	0.32400	219	268
DORKING	96.51/56.30	12	7	3.20	3.20	16.00	707	82.96	0.30020	229	280
BRAHMA	102.79/ 91.78	16	19	2.86	2.48	18.12	1003	126.60	0.28180	241	297
COCHIN	107.04/ 62.44	12	7	3.37	3.37	16.85	784	92.00	0.27070	243	298

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 requirements can also be designed.



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

Code Name	Conductor size (kcmil)	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/Km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
			Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
Thrasher	2312.0	1235.1	76	19	4.43	2.07	45.77	3754	252.30	0.02477	938	1246
Kiwi	2167.0	1145.7	72	7	4.41	2.94	44.07	3424	221.60	0.02642	908	1201
Bluebird	2156.0	1181.3	84	19	4.07	2.44	44.75	3732	268.32	0.02656	911	1206
Chukar	1780.0	975.9	84	19	3.70	2.22	40.69	3083	226.94	0.03216	828	1085
Falcon	1590.0	907.9	54	19	4.36	2.62	39.24	3038	242.51	0.03601	775	1011
Lapwing	1590.0	861.6	45	7	4.78	3.18	38.20	2664	187.78	0.03583	773	1006
Parrot	1510.5	861.8	54	19	4.25	2.55	38.23	2884	230.06	0.03793	754	981
Nuthatch	1510.5	818.2	45	7	4.65	3.10	37.24	2530	178.44	0.03773	753	977
Plover	1431.0	817.1	54	19	4.14	2.48	37.21	2735	218.49	0.04001	733	951
Bobolink	1431.0	775.0	45	7	4.53	3.02	36.25	2397	170.43	0.03984	731	947
Martin	1351.5	771.5	54	19	4.02	2.41	36.17	2582	206.03	0.04237	711	920
Dipper	1351.5	732.1	45	7	4.40	2.93	35.20	2582	161.08	0.04217	710	917
Pheasant	1272.0	726.4	54	19	3.90	2.34	35.10	2431	194.01	0.04501	688	889
Bittern	1272.0	688.9	45	7	4.27	2.85	34.16	2131	151.74	0.04482	687	885
Skylark	1272.0	662.6	36	1	4.78	4.78	33.43	1914	117.48	0.04457	695	893
Grackle	1192.5	680.8	54	19	3.77	2.27	33.99	2278	186.45	0.04802	665	856
Bunting	1192.5	646.1	45	7	4.14	2.76	33.07	1997	142.39	0.04778	664	853
Finch	1113.0	635.8	54	19	3.65	2.19	32.84	2128	173.99	0.05143	641	822
Bluejay	1113.0	603.2	45	7	4.00	2.66	31.98	1866	132.60	0.05118	640	820
Curlew	1033.5	591.2	54	7	3.51	3.51	31.62	1978	162.86	0.05518	616	789
Ortolan	1033.5	559.5	45	7	3.85	2.57	30.78	1731	123.26	0.05518	614	784
Tanager	1033.5	538.0	36	1	4.30	4.30	30.12	1553	95.23	0.05489	621	792
Cardinal	954.0	545.9	54	7	3.38	3.38	30.38	1826	150.40	0.05975	590	752
Rail	954.0	516.8	45	7	3.70	2.47	29.59	1598	115.25	0.05974	588	749
Catbird	954.0	496.9	36	1	4.14	4.14	28.96	1434	88.11	0.05944	595	756
Canary	900.0	515.2	54	7	3.28	3.28	29.51	1723	141.95	0.06332	572	727
Ruddy	900.0	487.4	45	7	3.59	2.40	28.73	1507	108.58	0.06334	569	723
Mallard	795.0	494.8	30	19	4.14	2.48	28.96	1836	170.87	0.07185	543	690
Condor	795.0	454.8	54	7	3.08	3.08	27.74	1521	125.48	0.07172	533	675

NOTE :

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



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

Code Name	Conductor size (kcmil)	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/Km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
			Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
Tern	795.0	430.6	45	7	3.38	2.25	27.00	1332	98.34	0.07170	532	672
Drake	795.0	468.6	26	7	4.44	3.45	28.14	1626	140.17	0.07165	542	687
Cuckoo	795.0	455.0	24	7	4.62	3.08	27.74	1522	124.15	0.07169	541	685
Coot	795.0	414.0	36	1	3.77	3.77	26.42	1196	74.76	0.07134	538	679
Redwing	715.5	444.9	30	19	3.92	2.35	27.46	1651	153.96	0.07988	512	648
Starling	715.5	421.6	26	7	4.21	3.28	26.70	1464	126.37	0.07964	511	645
Stilt	715.5	409.7	24	7	4.39	2.92	26.31	1370	113.47	0.07961	510	643
Gannet	666.6	392.7	26	7	4.07	3.16	25.76	1363	117.48	0.08551	491	618
Flamingo	666.6	381.7	24	7	4.23	2.82	25.40	1277	105.46	0.08545	490	617
Egret	636.0	395.8	30	19	3.70	2.22	25.88	1469	140.17	0.08982	480	604
Scoter	636.0	397.5	30	7	3.70	3.70	25.88	1481	135.27	0.09004	479	603
Grosbeak	636.0	374.7	26	7	3.97	3.09	25.15	1301	112.14	0.09004	477	600
Rook	636.0	364.1	24	7	4.14	2.76	24.82	1217	100.57	0.08959	477	600
Swift	636.0	331.1	36	1	3.38	3.38	23.62	956	61.41	0.08919	475	594
Kingbird	636.0	340.3	18	1	4.78	4.78	23.88	1027	69.86	0.08914	475	596
Teal	605.0	376.4	30	19	3.61	2.16	25.25	1397	133.49	0.09444	466	586
Wood Duck	605.0	378.0	30	7	3.61	3.61	25.25	1408	128.60	0.09444	466	586
Squab	605.0	356.3	26	7	3.87	3.01	24.54	1237	108.13	0.09425	465	583
Peacock	605.0	346.4	24	7	4.03	2.69	24.21	1159	96.12	0.09416	464	582
Eagle	556.5	347.8	30	7	3.46	3.46	24.21	1296	123.70	0.10265	445	558
Dove	556.5	327.9	26	7	3.72	2.89	23.55	1139	100.57	0.10241	443	555
Parakeet	556.5	318.6	24	7	3.87	2.58	23.22	1066	88.11	0.10237	443	554
Osprey	556.5	297.5	18	1	4.47	4.47	22.33	898	60.96	0.10194	441	550
Hen	477.0	298.1	30	7	3.20	3.20	22.43	1111	105.91	0.11975	408	509
Hawk	477.0	280.9	26	7	3.44	2.67	21.79	975	86.77	0.11956	406	506
Flicker	477.0	273.1	24	7	3.58	2.39	21.49	913	76.54	0.11944	405	505
Pelican	477.0	255.2	18	1	4.14	4.14	20.68	770	52.51	0.11887	404	502
Lark	397.5	248.4	30	7	2.92	2.92	20.47	925	90.33	0.14374	367	456
Ibis	397.5	234.0	26	7	3.14	2.44	19.89	812	72.53	0.14347	366	453

NOTE :

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



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)	
Oriole	336.4	210.3	30	7	2.69	2.69	18.82	783	76.98	0.16980	334	412
Linnet	336.4	198.0	26	7	2.89	2.25	18.29	687	62.74	0.16955	332	410
Merlin	336.4	179.9	18	1	3.47	3.47	17.37	543	38.62	0.16860	331	407
Ostrich	300.0	176.7	26	7	2.73	2.12	17.27	613	56.51	0.19002	311	383
Partridge	266.8	157.2	26	7	2.57	2.00	16.31	546	50.28	0.21359	291	357
Waxwing	266.8	142.6	18	1	3.09	3.09	15.47	430	30.61	0.21272	289	353
Penguin	211.6	125.1	6	1	4.77	4.77	14.30	433	37.16	0.26668	238	290
Cochin	211.3	169.5	12	7	3.37	3.37	16.87	784	92.11	0.26969	243	299
Brahma	203.2	194.9	16	19	2.86	2.48	18.14	1004	126.37	0.28042	241	298
Dorking	190.8	153.1	12	7	3.20	3.20	16.03	708	83.21	0.29866	229	281
Dotterel	176.9	141.9	12	7	3.08	3.08	15.42	656	76.98	0.32223	219	268
Pigeon	167.8	99.2	6	1	4.25	4.25	12.75	343	29.46	0.33644	208	252
Guinea	159.0	127.5	12	7	2.92	2.92	14.63	590	71.20	0.35847	206	252
Leghorn	134.6	108.0	12	7	2.69	2.69	13.46	499	60.52	0.42346	187	228
Quail	133.1	78.6	6	1	3.78	3.78	11.35	272	23.58	0.42421	181	219
Minorca	110.8	88.9	12	7	2.44	2.44	12.22	411	50.28	0.51423	167	202
Raven	105.6	62.5	6	1	3.37	3.37	10.11	216	19.49	0.53411	158	191
Petrel	101.8	81.7	12	7	2.34	2.34	11.71	378	46.28	0.55986	159	192
Robin	83.7	49.5	6	1	3.00	3.00	8.99	171	15.80	0.67433	138	165
Grouse	80.0	54.7	8	1	2.54	4.24	9.32	221	23.14	0.70887	136	163
Sparate	66.4	42.2	7	1	2.47	3.30	8.26	159	16.20	0.84979	121	145
Sparrow	66.4	39.3	6	1	2.67	2.67	8.03	136	12.68	0.84985	121	144
Swanate	41.7	26.5	7	1	1.96	2.61	6.53	100	10.50	1.35267	92	109
Swan	41.7	24.7	6	1	2.12	2.12	6.35	85	8.28	1.35220	92	108
Turkey	26.2	15.5	6	1	1.68	1.68	5.03	54	5.30	2.15264	69	82
Brant	397.5	227.5	24	7	3.27	2.18	19.61	761	64.97	0.14336	365	452
Chickadee	397.5	212.6	18	1	3.77	3.77	18.87	641	44.23	0.14268	364	450

NOTE :

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



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

Code Name	Conductor size (kcmil)	Sectional Area (mm ²)	Stranding				Diameter of Complete Conductor (mm)	Weight (Kg/Km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)	Current Capacity	
			No. of Wires		Wire diameter						@ 75°C (Ampere)	@ 85°C (Ampere)
			Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
-	2466.9	1250.0	84	19	4.35	2.61	47.85	4274	306.00	0.02324	970	1296
-	2466.9	1250.0	76	19	4.58	2.14	47.34	4023	269.00	0.02317	968	1291
-	2466.9	1250.0	72	7	4.70	3.13	46.99	3901	250.00	0.02323	965	1286
-	2210.4	1120.0	84	19	4.12	2.47	45.31	3833	275.00	0.02591	922	1222
-	2210.4	1120.0	76	19	4.33	2.02	44.74	3595	240.00	0.02593	918	1216
-	2210.4	1120.0	72	7	4.45	2.97	44.51	3499	226.00	0.02591	917	1214
-	1973.6	1000.0	84	19	3.89	2.33	42.77	3416	245.00	0.02907	871	1148
-	1973.6	1000.0	72	7	4.21	2.81	42.11	3132	202.00	0.02895	869	1143
-	1776.2	900.0	84	19	3.69	2.21	40.57	3073	226.00	0.03230	826	1083
-	1776.2	900.0	72	7	3.99	2.66	39.90	2812	181.00	0.03223	824	1077
-	1578.8	800.0	54	19	4.34	2.60	39.04	3015	240.00	0.03632	771	1006
-	1578.8	800.0	45	7	4.76	3.17	38.07	2652	186.00	0.03606	770	1003
-	1401.2	710.0	54	19	4.09	2.45	36.79	2678	213.00	0.04090	724	939
-	1401.2	710.0	45	7	4.48	2.99	35.85	2351	167.00	0.04071	723	936
-	1243.3	630.0	54	19	3.85	2.31	34.65	2375	189.00	0.04616	679	876
-	1243.3	630.0	45	7	4.22	2.81	33.75	2084	148.00	0.04588	679	873
-	1105.2	560.0	54	19	3.63	2.18	32.68	2112	173.00	0.05192	637	818
-	1105.2	560.0	45	7	3.98	2.65	31.83	1854	132.00	0.05158	637	816
-	986.8	500.0	54	7	3.43	3.43	30.87	1889	154.00	0.05787	601	767
-	986.8	500.0	45	7	3.76	2.51	30.09	1656	118.00	0.05779	599	763
-	888.1	450.0	54	7	3.26	3.26	29.34	1706	139.00	0.06407	568	722
-	888.1	450.0	45	7	3.57	2.38	28.56	1492	108.00	0.06411	566	718
-	789.4	400.0	30	19	4.12	2.47	28.83	1824	170.00	0.07238	541	687
-	789.4	400.0	26	7	4.43	3.45	28.07	1622	139.00	0.07206	540	685
-	789.4	400.0	24	7	4.61	3.07	28.07	1515	123.00	0.07208	540	684
-	700.6	355.0	30	19	3.88	2.33	27.17	1620	151.00	0.08161	506	640
-	700.6	355.0	26	7	4.17	3.24	26.40	1435	123.00	0.08132	505	637
-	700.6	355.0	24	7	4.34	2.89	26.03	1343	111.00	0.08133	504	635
-	621.7	315.0	30	19	3.66	2.20	25.64	1443	138.00	0.09171	474	597

NOTE :

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



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					(Ampere)	(Ampere)
(kcmil)	(mm ²)	(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	472	594
-	621.7	315.0	24	7	4.09	2.73	24.55	1194	98.70	0.09158	471	592
-	621.7	315.0	18	1	4.72	4.72	23.60	1014	68.00	0.09124	469	588
-	552.6	280.0	30	7	3.45	3.45	24.15	1291	122.00	0.10322	443	556
-	552.6	280.0	26	7	3.70	2.88	23.44	1131	100.00	0.10329	441	552
-	552.6	280.0	24	7	3.85	2.57	23.11	1058	87.50	0.10335	440	550
-	552.6	280.0	18	1	4.45	4.45	22.25	901	60.40	0.10264	439	548
-	493.4	250.0	30	7	3.26	3.26	22.82	1152	109.00	0.11560	416	520
-	493.4	250.0	26	7	3.50	2.72	22.16	1011	89.50	0.11544	414	517
-	493.4	250.0	24	7	3.64	2.43	21.85	946	79.40	0.11562	413	515
-	493.4	250.0	18	1	4.21	4.21	21.05	806	54.10	0.11468	412	513
-	442.1	224.0	30	7	3.08	3.08	21.56	1029	97.40	0.12950	390	485
-	442.1	224.0	26	7	3.31	2.57	20.95	904	80.00	0.12907	389	483
-	442.1	224.0	24	7	3.45	2.30	20.70	849	72.00	0.12871	388	483
-	442.1	224.0	18	1	3.98	3.98	19.90	721	48.30	0.12832	387	479
-	394.7	200.0	30	7	2.91	2.91	20.37	918	89.70	0.14508	365	453
-	394.7	200.0	26	7	3.13	2.43	19.81	808	71.50	0.14434	365	452
-	394.7	200.0	24	7	3.26	2.17	19.55	758	64.20	0.14415	364	451
-	394.7	200.0	18	1	3.76	3.76	18.80	643	43.10	0.14377	362	448
-	355.2	180.0	30	7	2.76	2.76	19.32	826	80.70	0.16128	344	425
-	355.2	180.0	26	7	2.97	2.31	18.81	729	65.40	0.16031	343	424
-	355.2	180.0	24	7	3.09	2.06	18.54	681	57.80	0.16044	342	423
-	355.2	180.0	18	1	3.57	3.57	17.85	580	40.40	0.15948	341	420
-	315.8	160.0	30	7	2.61	2.61	18.27	739	72.90	0.18035	322	398
-	315.8	160.0	26	7	2.80	2.18	17.74	648	58.90	0.18037	321	395
-	315.8	160.0	24	7	2.91	1.94	17.46	604	52.00	0.18091	319	393
-	315.8	160.0	18	1	3.36	3.36	16.80	514	35.80	0.18004	318	391
-	276.3	140.0	26	7	2.62	2.04	16.60	567	52.20	0.20600	297	365
-	276.3	140.0	24	7	2.73	1.82	16.38	532	46.40	0.20555	297	364

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 requirements can also be designed.

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	295	362
-	246.7	125.0	26	7	2.47	1.92	15.64	504	46.90	0.23178	277	340
-	246.7	125.0	24	7	2.58	1.72	15.48	475	41.50	0.23014	278	340
-	246.7	125.0	18	1	2.97	2.97	14.85	401	28.80	0.23043	276	337
-	197.4	100.0	16	19	2.82	2.44	17.84	972	123.00	0.28896	237	292
-	197.4	100.0	12	7	3.26	3.26	16.30	734	85.90	0.28829	234	287
-	197.4	100.0	6	1	4.61	4.61	13.83	405	34.60	0.28552	229	278
-	177.6	90.0	12	7	3.09	3.09	15.45	660	77.20	0.32089	220	269
-	157.9	80.0	12	7	2.91	2.91	14.55	585	70.60	0.36181	205	250
-	157.9	80.0	6	1	4.12	4.12	12.36	323	27.60	0.35748	201	243
-	140.1	71.0	12	7	2.74	2.74	13.70	519	62.90	0.40810	191	233
-	124.3	63.0	12	7	2.59	2.59	12.95	463	56.20	0.45674	179	217
-	124.3	63.0	6	1	3.66	3.66	10.98	255	22.10	0.45298	175	211
-	110.5	56.0	12	7	2.44	2.44	12.20	411	50.20	0.51462	167	202
-	98.7	50.0	12	7	2.30	2.30	11.50	365	45.40	0.57918	156	188
-	98.7	50.0	6	1	3.26	3.26	9.78	202	18.10	0.57096	152	183
-	78.9	40.0	8	1	2.52	4.20	9.24	218	22.50	0.72017	134	161
-	78.9	40.0	6	1	2.91	2.91	8.73	161	14.90	0.71657	133	159
-	62.2	31.5	7	1	2.39	3.19	7.97	148	15.10	0.91054	116	139
-	62.2	31.5	6	1	2.59	2.59	7.77	128	11.90	0.90457	116	138
-	49.3	25.0	7	1	2.13	2.84	7.10	118	12.30	1.14640	101	121
-	49.3	25.0	6	1	2.30	2.30	6.90	101	9.53	1.14706	101	120
-	39.5	20.0	7	1	1.91	2.55	6.37	95	10.00	1.42570	89	106
-	39.5	20.0	6	1	2.06	2.06	6.18	81	7.84	1.42990	89	105
-	31.6	16.0	6	1	1.84	1.84	5.52	64	6.33	1.79228	77	91
-	24.7	12.5	6	1	1.63	1.63	4.89	51	4.97	2.28384	67	79

NOTE :

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

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)
Swallow	31.1	6	1	2.38	2.38	7.14	108	10.00	1.07000	105	125
Robin	49.5	6	1	3.00	3.00	9.00	171	15.60	0.67500	138	165
Raven	62.4	6	1	3.37	3.37	10.11	216	19.00	0.53500	158	190
Pigeon	99.3	6	1	4.25	4.25	12.75	343	29.80	0.33600	208	252
Partridge	156.9	26	7	2.57	2.00	16.28	545	50.20	0.21400	291	356
Ibis	234.1	26	7	3.14	2.44	19.88	812	72.90	0.14300	366	454
Dove	328.5	26	7	3.72	2.89	23.55	1140	99.70	0.10200	444	556
Condor	454.5	54	7	3.08	3.08	27.72	1522	129.00	0.07200	532	674
Curlew	593/68	54	7	3.52	3.52	31.68	1990	165.00	0.05510	617	789
Skata	774/89	54	7	4.02	4.02	36.18	2592	212.00	0.04220	712	922
Falcon	910/102	54	19	4.36	2.62	39.26	3040	251.00	0.03610	774	1010
Morkulla	593/29	42	7	4.13	2.31	31.70	1782	128.00	0.05140	638	816
Ripa	774/38	42	7	4.72	2.63	36.20	2324	162.00	0.03930	735	953
Orre	910/44	42	7	5.12	2.83	39.20	2736	191.00	0.03340	800	1044
Dotterel	142.00	12	7	3.08	3.08	15.40	655.0	73.20	0.3230	219	268
Oden	185.00	12	7	3.52	3.52	17.60	855.0	94.90	0.2470	256	315
Atle	241.00	12	7	4.02	4.02	20.10	1115.0	123.00	0.1890	299	370
Ymer	319.00	32	7	3.16	3.43	23.20	1228.0	119.00	0.1150	418	523

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 requirements can also be designed.