

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR)

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

Construction

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



Features:

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

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

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- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - IS 398 (PART II)

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

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

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

NOTE:

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - BS 215 Part-2

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

NOTE :

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

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- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

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

NOTE :

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

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- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

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

NOTE :

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

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

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

NOTE :

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- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - GOST 839

c	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)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
900/38.9	900/38.9	72	7	3.99	2.66	39.89	2789.5	188.33	0.03210	824	1078
900/75	900/75	84	7	3.69	3.69	40.63	3073.9	226.50	0.03210	828	1085
1000/43.2	1000/43.2	72	7	4.21	2.80	42.05	3099.4	209.26	0.02890	869	1143
1000/56	1003.2/56.3	76	7	4.10	3.20	42.40	3210.0	224.05	0.02880	871	1148
1120/47.3	1120/47.3	72	19	4.45	1.78	44.50	3463.9	234.28	0.02580	917	1215
1120/91.2	1120/91.2	84	19	4.12	2.47	45.32	3810.7	283.17	0.02530	930	1235
1250/52.8	1250/52.8	72	19	4.70	1.88	47.02	3865.9	261.75	0.02310	966	1288
1250/101.8	1250/101.8	84	19	4.35	2.61	47.88	4253.0	316.04	0.02310	972	1298

NOTE :

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

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ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - AS 3607

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

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL 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	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.13	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	14.40	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	29.17	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	45.69	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	36.18	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	57.69	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	70.13	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	68.72	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	87.67	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	79.03	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	106.83	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	98.36	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	123.04	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	107.47	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	138.42	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	119.41	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	153.80	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	133.74	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	172.59	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	150.45	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	191.77	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	169.56	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	216.12	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	167.41	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	205.33	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	243.52	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	188.33	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	827	1083

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL 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 (Ampere)	@ 85°C (Ampere)
		Aluminium (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
1000	1043.0	72	7	4.21	2.80	42.10	3100	209.26	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	234.53	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	283.17	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	316.04	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	261.75	0.02310	966	1288

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel					(Ampere)	(Ampere)
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
16	18.7	6	1	1.84	1.84	5.53	65	5.89	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	8.83	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	13.93	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	20.58	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	32.67	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	28.68	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	44.27	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	35.29	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	55.86	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	43.11	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	67.85	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	67.01	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	84.82	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	77.51	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	101.70	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	96.42	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	117.85	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	105.29	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	132.58	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	116.99	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	147.31	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	131.03	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	167.63	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	147.40	0.04590	678	872

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel					(Ampere)	(Ampere)
	(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)		
630	710.0	54	19	3.85	2.31	34.70	2366	186.19	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	166.12	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	209.83	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	164.99	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	198.67	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	236.43	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	185.61	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	219.00	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	206.23	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	231.22	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	276.78	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	308.91	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	258.06	0.02310	966	1288

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

c	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)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	18.7	6	1	1.84	1.84	5.53	65	6.45	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.71	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	15.33	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	22.37	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	35.50	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	3014.00	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	4854.00	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	3742.00	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	61.34	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	45.00	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	74.69	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	72.16	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	93.37	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	82.08	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	114.02	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	102.23	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	130.30	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	111.82	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	146.58	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	124.25	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	162.87	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	139.16	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	182.52	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	156.55	0.04590	678	872

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

c	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)	(Kg/km)	KN	(Ω/Km)		
630	710.0	54	19	3.85	2.31	34.70	2366	202.94	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	176.43	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	228.71	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	172.25	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	214.67	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	257.71	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	193.78	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	231.75	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	215.31	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	241.15	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	295.94	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	330.29	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	269.14	0.02310	966	1288

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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					(Ampere)	(Ampere)
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
16	18.7	6	1	1.84	1.84	5.53	65	6.27	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	9.42	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	14.87	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	21.63	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	34.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	29.65	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	47.12	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	36.80	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	59.51	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	44.22	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	72.41	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	70.44	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	90.52	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	80.55	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	110.43	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	100.29	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	126.67	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	109.64	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	142.50	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	121.83	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	158.33	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	136.45	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	177.56	0.05160	638	819

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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					(Ampere)	(Ampere)
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
630	674.0	45	7	4.22	2.81	33.80	2079	153.50	0.04590	678	872
630	710.0	54	19	3.85	2.31	34.70	2366	197.36	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	172.99	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	222.42	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	169.83	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	210.00	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	250.61	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	191.06	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	226.50	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	212.28	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	237.84	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	289.55	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	323.16	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	265.44	0.02310	966	1288

NOTE :

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m² Solar radiation

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel					(Ampere)	(Ampere)
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
16	18.7	6	1	1.84	1.84	5.53	65	6.83	1.79340	76	90
25	29.2	6	1	2.30	2.30	6.91	101	10.25	1.14780	100	119
40	46.7	6	1	2.91	2.91	8.74	162	16.20	0.71740	132	158
63	73.5	6	1	3.66	3.66	11.00	254	24.15	0.45550	173	209
100	117.0	6	1	4.61	4.61	13.80	404	38.33	0.28690	227	277
125	132.0	18	1	2.97	2.97	14.90	398	31.04	0.23040	275	336
125	145.0	26	7	2.47	1.92	15.70	504	51.39	0.23100	277	339
160	169.0	18	1	3.36	3.36	16.80	509	38.67	0.18000	317	390
160	186.0	26	7	2.80	2.18	17.70	645	64.99	0.18050	320	394
200	211.0	18	1	3.76	3.76	18.80	637	46.89	0.14400	361	446
200	233.0	26	7	3.13	2.43	19.80	806	78.93	0.14440	363	451
250	275.0	22	7	3.80	2.11	21.60	881	75.60	0.11540	412	513
250	291.0	26	7	3.50	2.72	22.20	1008	98.66	0.11550	413	516
315	337.0	45	7	2.99	1.99	23.90	1040	85.13	0.09170	462	580
315	366.0	26	7	3.93	3.05	24.90	1270	121.20	0.09170	471	592
400	428.0	45	7	3.36	2.24	26.90	1320	106.10	0.07220	529	668
400	452.0	54	7	3.07	3.07	27.60	1510	137.56	0.07230	530	671
450	481.0	45	7	3.57	2.38	28.50	1485	115.87	0.06420	564	716
450	508.0	54	7	3.26	3.26	29.30	1699	154.75	0.06430	566	720
500	535.0	45	7	3.76	2.51	30.10	1650	128.74	0.05780	598	762
500	565.0	54	7	3.43	3.43	30.90	1888	171.94	0.05780	600	766
560	599.0	45	7	3.98	2.65	31.80	1848	144.19	0.05160	636	814
560	631.0	54	19	3.63	2.18	32.70	2103	192.45	0.05160	638	819
630	674.0	45	7	4.22	2.81	33.80	2079	162.21	0.04590	678	872

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

Nominal Area	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel					(Ampere)	(Ampere)
	(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)
630	710.0	54	19	3.85	2.31	34.70	2366	213.32	0.04590	680	877
710	759.0	45	7	4.48	2.99	35.90	2343	182.81	0.04070	722	935
710	800.0	54	19	4.09	2.45	36.80	2667	240.41	0.04070	725	941
800	835.0	72	7	3.76	2.51	37.60	2480	176.74	0.03610	776	1010
800	867.0	84	7	3.48	3.48	38.30	2733	224.00	0.03620	778	1014
800	901.0	54	19	4.34	2.61	39.10	3005	270.88	0.03620	771	1007
900	939.0	72	7	3.99	2.66	39.90	2790	198.83	0.03210	824	1079
900	975.0	84	7	3.69	3.69	40.60	3074	244.50	0.03220	827	1083
1000	1043.0	72	7	4.21	2.80	42.10	3100	220.93	0.02890	869	1143
1120	1167.0	72	19	4.45	1.78	44.50	3465	247.77	0.02580	917	1215
1120	1211.0	84	19	4.12	2.47	45.30	3812	307.79	0.02580	922	1224
1250	1352.0	84	19	4.35	2.61	47.90	4254	343.52	0.02320	970	1296
1250	1303.0	72	19	4.70	1.88	47.00	3867	276.53	0.02310	966	1288

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/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 (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
34-AL1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	121	144
48-AL1/6-ST1A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	148	178
70-AL1/11-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	197	238
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	236	287
94-AL1 /15-ST1A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	235	286
97-AL1/34-ST1A	131.1	36	7	1.85	2.50	14.90	536.5	57.07	0.29900	241	295
122-AL1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	273	334
119-AL1/42-ST1A	160.4	36	7	2.05	2.75	16.50	653.9	68.79	0.24350	272	334
128-AL1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	282	346
149-AL1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	307	377
150-AL1/53-ST1 A	202.4	36	7	2.30	3.10	18.50	827.1	84.29	0.19340	311	384
172-AL1/40-ST1A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	334	413
184-AL1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	346	428
209-AL1/34-ST1 A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	373	463
212-AL1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	377	470
243-AL1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	406	507
238-AL1/82-ST1A	320.2	36	19	2.90	2.35	23.40	1305.3	134.37	0.12180	406	508
257-AL1/60-ST1A	316.5	30	7	3.30	3.30	23.10	1177.5	108.20	0.11260	421	527
304-AL1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	462	580

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

ALL ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) - EN 50182 - TYPE A1/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 (No.)	Steel (No.)	Aluminium (mm)	Steel (mm)						
341-AL1/109-ST1A	450.0	78	19	2.36	2.70	27.70	1797.4	183.73	0.08480	497	629
382-AL1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	516	653
449-AL1 /39-S T1 A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	564	716
562-AL1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1 939.5	146.28	0.05150	637	817
679-AL1/86-ST1 A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	708	916
1288-AL1/183-ST1A	1471.1	100	19	4.05	3.50	49.90	5002	407.20	0.02250	991	1331

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

(Used in Finland)

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)
34-AL1/6-ST1A	39.5	6	1	2.68	2.68	8.04	136.6	12.18	0.84670	120	143
54-AL1/9-ST1A	62.4	6	1	3.37	3.37	10.11	216.1	18.64	0.53550	157	189
85-AL1 /14-ST1 A	99.3	6	1	4.25	4.25	12.75	343.6	29.22	0.33670	207	251
106-AL1/25-ST1 A	130.6	30	7	2.12	2.12	14.84	485.9	47.97	0.27290	253	309
152-AL1/25-ST1 A	176.9	26	7	2.73	2.12	17.28	613.6	54.78	0.18980	310	382
305-AL1/39-ST1A	344.1	54	7	2.68	2.68	24.12	1151.2	96.80	0.09490	455	571
565-AL1/72-ST1A	636.6	54	19	3.65	2.19	32.85	2123.0	174.14	0.05120	641	823
42-AL1/25-ST1A	67.1	12	7	2.12	2.12	10.60	310.2	36.53	0.68170	141	170
89-AL1/52-ST1A	141.6	12	7	3.08	3.08	15.40	654.8	72.12	0.32300	218	267
93-AL1/39-ST1A	132.4	10	7	3.44	2.68	14.92	565.1	60.35	0.31020	221	271
148-AL1/67-ST1A	215.3	42	19	2.12	2.12	19.08	937.3	105.16	0.19550	307	380

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

(Used in France)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	
		Aluminium	Steel	Aluminium	Steel						
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
28-AL1/9-ST1A	37.7	9	3	2.00	2.00	8.30	151.5	16.26	1.01870	110	
38-AL1/22-ST1A	59.7	12	7	2.00	2.00	10.00	276.1	32.70	0.76600	131	
48-AL1/28-ST1A	75.5	12	7	2.25	2.25	11.30	349.4	41.15	0.60520	151	
59-AL1/34-ST1A	93.3	12	7	2.50	2.50	12.50	431.4	49.48	0.49020	171	
94-AL1/22-ST1A	116.2	30	7	2.00	2.00	14.00	432.5	43.17	0.30670	236	
119-AL1/28-ST1A	147.1	30	7	2.25	2.25	15.80	547.4	54.03	0.24230	271	
147-AL1/34-ST1A	181.6	30	7	2.50	2.50	17.50	675.8	64.94	0.19630	306	
185-AL1/43-ST1A	227.8	30	7	2.80	2.80	19.60	847.7	80.54	0.15650	349	
234-AL1/55-ST1A	288.3	30	7	3.15	3.15	22.10	1072.8	98.58	0.12360	399	

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

(Used in France)

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

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

(Used in Germany)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
15-AL1/3-ST1A	17.8	6	1	1.80	1.80	5.40	61.6	5.80	1.87690	74	88
24-AL 1/4-ST1A	27.8	6	1	2.25	2.25	6.75	96.3	8.95	1.20120	97	116
34-AL 1/6-ST1A	40.1	6	1	2.70	2.70	8.10	138.7	12.37	0.83420	121	144
44-AL 1 /32-ST1 A	75.6	14	7	2.00	2.40	11.20	369.3	44.24	0.65740	145	175
48-AL 1 /8-ST1 A	56.3	6	1	3.20	3.20	9.60	194.8	16.81	0.59390	148	178
51-AL 1/30-ST1A	81.0	12	7	2.33	2.33	11.70	374.7	42.98	0.56440	157	190
70-AL 1/1 1-ST1A	81.3	26	7	1.85	1.44	11.70	282.2	26.27	0.41320	197	238
94-AL 1 /15-ST1 A	109.7	26	7	2.15	1.67	13.60	380.6	34.93	0.30600	235	286
97-AL 1/56-ST1A	152.8	12	7	3.20	3.20	16.00	706.8	77.85	0.29920	228	280
106-AL1/76-ST1A	181.2	14	19	3.10	2.25	17.50	885.3	105.82	0.27420	242	298
122-AL 1/20-ST1A	141.4	26	7	2.44	1.90	15.50	491.0	44.50	0.23760	273	334
122-AL 1/71-ST1A	193.4	12	7	3.60	3.60	18.00	894.5	97.92	0.23640	262	323
128-AL 1/30-ST1A	157.8	30	7	2.33	2.33	16.30	587.0	56.41	0.22600	282	346
149-AL 1/24-ST1A	173.1	26	7	2.70	2.10	17.10	600.8	53.67	0.19400	307	377
172-AL 1/40-ST1 A	211.8	30	7	2.70	2.70	18.90	788.2	74.89	0.16830	334	413
184-AL 1/30-ST1A	213.6	26	7	3.00	2.33	19.00	741.0	65.27	0.15710	346	428
209-AL 1/34-ST1A	243.2	26	7	3.20	2.49	20.30	844.1	73.36	0.13810	373	463
212-AL 1/49-ST1A	261.5	30	7	3.00	3.00	21.00	973.1	92.46	0.13630	377	470
231-AL 1/30-ST1A	260.8	24	7	3.50	2.33	21.00	870.9	72.13	0.12500	394	490
243-AL 1/39-ST1A	282.5	26	7	3.45	2.68	21.80	980.1	85.12	0.11880	406	507
264-AL 1/34-ST1A	297.7	24	7	3.74	2.49	22.40	994.4	81.04	0.10950	425	531

NOTE :

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

- AA, AAA, ACSR, AACSR, ACSR/AW, AL59, HTLS CONDUCTORS
- EARTHWIRE, STAYWIRE, ALUMINIUM CLAD STEEL (ACS) EARTHWIRE
- ALUMINIUM CLAD STEEL (ACS) WIRE, ALUMINIUM WIRE, GI WIRE

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

(Used in Germany)

Code Name	Sectional Area	Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
		No. of Wires		Wire diameter						@ 75°C	@ 85°C
		Aluminium	Steel	Aluminium	Steel						
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/km)	KN	(Ω/Km)	(Ampere)	(Ampere)	
304-AL 1/49-ST1A	353.7	26	7	3.86	3.00	24.40	1227.3	105.09	0.09490	462	580
305-AL 1 /39-ST1 A	344.1	54	7	2.68	2.68	24.10	1151.2	96.80	0.09490	455	571
339-AL 1 /30-ST1 A	369.1	48	7	3.00	2.33	25.00	1171.2	91.71	0.08520	482	606
382-AL 1/49-ST1A	431.2	54	7	3.00	3.00	27.00	1442.5	121.30	0.07580	516	653
386-AL 1/34-ST1A	420.1	48	7	3.20	2.49	26.70	1333.6	102.56	0.07490	518	655
434-AL 1/56-ST1A	490.6	54	7	3.20	3.20	28.80	1641.3	133.59	0.06660	555	705
449-AL 1/39-ST1A	488.2	48	7	3.45	2.68	28.70	1549.1	119.05	0.06440	564	716
490-AL 1/64-ST1A	553.8	54	7	3.40	3.40	30.60	1852.9	150.81	0.05900	593	757
494-AL 1/34-ST1A	528.4	45	7	3.74	2.49	29.90	1632.6	117.96	0.05840	594	757
511-AL 1/45-ST1A	555.8	48	7	3.68	2.87	30.70	1765.3	133.31	0.05660	605	773
550-AL 1/71-ST1A	620.9	54	7	3.60	3.60	32.40	2077.2	166.32	0.05260	632	810
562-AL 1/49-ST1A	611.2	48	7	3.86	3.00	32.20	1939.5	146.28	0.05150	637	817
571-AL 1/39-ST1A	610.6	45	7	4.02	2.68	32.20	1887.1	136.40	0.05060	643	824
653-AL 1/45-ST1A	698.8	45	7	4.30	2.87	34.40	2159.9	156.18	0.04420	691	891
679-AL 1/86-ST1A	764.5	54	19	4.00	2.40	36.00	2549.7	206.56	0.04260	708	916
1046-AL 1 /45-ST1A	1090.9	72	7	4.30	2.87	43.00	3248.2	218.92	0.02770	887	1170

NOTE :

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