



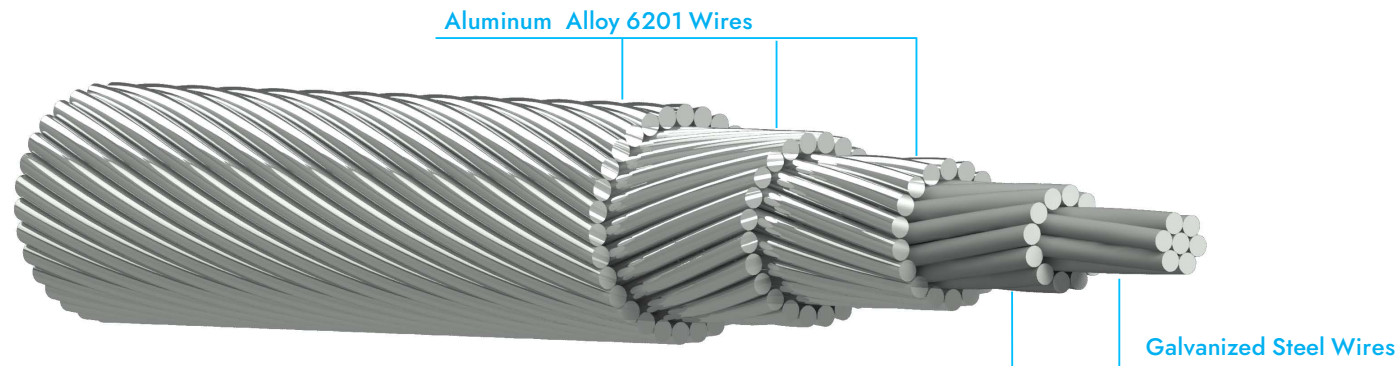
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## ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR)

**All Aluminium Alloy Conductors Steel Reinforced (AACSR):** is a concentrically stranded conductor composed of one or more layers of Aluminium-Magnesium-Silicon alloy wire stranded over a high-strength zinc coated (galvanized) steel core. AACSR Conductors have approx. 40% to 60% more strength than comparable standard ACSR with only 8 to 10% decrease in conductivity.

### Construction

Aluminum 6201 Wires, concentrically stranded over a central wire/core of Galvanized steel.



### Features:

- Offers optimal strength for line design
- Improved strength to weight ratio
- Ideal for extra long spans and heavy load conditions
- Excellent resistance to corrosion

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

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - ASTM B 711**

Sectional Area			Stranding				Diameter of Complete Conductor	Weight	Rated Strength	DC Resistance @ 20°C	Current Capacity	
Alloy Nominal	Conductor size	Total	No. of Wires		Wire diameter						@ 75°C	@ 85°C
			Aluminum	Steel	Aluminum	Steel						
(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
1250	102	1352	84	19	4.35	2.61	47.85	4255.00	490.00	0.02710	913	1221
1120	91	1211	84	19	4.12	2.47	45.31	3816.00	439.00	0.03021	866	1151
1000	81	1081	84	19	3.89	2.33	42.77	3400.00	391.00	0.03388	818	1079
900	73	973	84	19	3.69	2.21	40.57	3060.00	355.00	0.03766	775	1017
800	101	901	54	19	4.34	2.60	39.04	3003.00	363.00	0.04234	722	943
710	90	800	54	19	4.09	2.45	36.79	2664.00	322.00	0.04768	678	881
630	80	710	54	19	3.85	2.31	34.65	2365.00	286.00	0.05381	635	821
560	71	631	54	19	3.63	2.18	32.68	2104.00	257.00	0.06053	596	766
500	63	563	54	19	3.43	2.06	30.88	1878.00	229.00	0.06779	560	716
450	59	509	54	19	3.26	1.98	29.46	1706.00	215.00	0.07505	530	675
400	91	491	30	19	4.12	2.47	28.83	1818.00	237.00	0.08437	300	382
400	65	465	26	7	4.43	3.45	28.07	1616.00	207.00	0.08400	299	379
355	81	436	30	19	3.88	2.33	27.17	1614.00	211.00	0.09513	297	376
355	58	413	26	7	4.17	3.24	26.40	1430.00	183.00	0.09480	289	365
315	72	387	30	19	3.66	2.20	25.64	1438.00	190.00	0.10691	335	422
315	46	361	26	7	3.93	3.06	24.90	1272.00	163.00	0.10673	333	419
280	65	345	30	7	3.45	3.45	24.15	1286.00	171.00	0.12032	350	440
280	46	326	26	7	3.70	2.88	23.44	1127.00	144.00	0.12041	348	436
250	58	308	30	7	3.26	3.26	22.82	1149.00	156.00	0.13476	367	460
250	41	291	26	7	3.50	2.72	22.16	1008.00	129.00	0.13457	365	456
224	52	276	30	7	3.08	3.08	21.56	1025.00	139.00	0.15097	385	480
224	36	260	26	7	3.31	2.57	20.95	901.00	118.00	0.15046	383	477
200	47	247	30	7	2.91	2.91	20.37	915.00	124.00	0.16912	404	502
200	32	232	26	7	3.13	2.43	19.81	805.00	106.00	0.16826	402	499
180	42	222	30	7	2.76	2.76	19.32	823.00	112.00	0.18800	428	531
180	29	209	26	7	2.97	2.31	18.81	731.00	95.10	0.18688	423	524
160	38	198	30	7	2.61	2.61	18.27	736.00	106.00	0.21024	447	553
160	26	186	26	7	2.80	2.18	17.74	646.00	85.60	0.21026	444	548
140	33	173	30	7	2.44	2.44	17.08	643.00	87.40	0.24055	470	579
140	23	163	26	7	2.62	2.04	16.60	565.00	75.00	0.24014	466	574

**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/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - ABNT NBR 5369**

Sectional Area Nominal		Stranding				Diameter of Complete Conductor	Nominal Mass			Rated Strength		DC Resistance @ 20°C	Current Capacity	
Alloy	Steel	No. of Wires		Wire diameter			Alloy	Steel	Total	KN / CLASS A	KN / CLASS B		@ 75°C (Ampere)	@ 85°C (Ampere)
		Aluminum	Steel	Aluminum	Steel							(mm)		
(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	(Kg/Km)	(Kg/Km)	KN / CLASS A	KN / CLASS B	(Ω/Km)	(Ampere)	(Ampere)
140.17	22.28	26	7	2.62	2.04	16.60	386.5	178.7	565.2	75.0	73.5	0.2402	277	341
140.28	32.73	30	7	2.44	2.44	17.08	387.7	255.7	643.4	87.5	85.3	0.2405	278	342
139.11	26.13	26	7	2.61	2.18	16.98	383.6	204.1	587.7	79.2	77.4	0.2420	277	341
133.46	37.45	30	7	2.38	2.38	16.66	368.9	292.5	661.4	91.8	89.3	0.2528	270	332
180.13	29.34	26	7	2.97	2.31	18.81	496.7	229.2	725.9	95.2	93.2	0.1869	320	396
179.49	41.88	30	7	2.76	2.76	19.32	496.1	327.1	823.2	111.9	109.1	0.1880	321	397
200.06	32.46	26	7	3.13	2.43	19.81	551.6	253.5	805.1	105.5	103.3	0.1683	340	422
199.52	46.56	30	7	2.91	2.91	20.37	551.5	363.7	915.2	124.4	121.3	0.1691	341	424
223.73	36.31	26	7	3.31	2.57	20.95	616.9	283.6	900.5	115.1	112.7	0.1505	363	452
223.52	52.15	30	7	3.08	3.08	21.56	617.8	407.3	1025.1	139.4	135.9	0.1510	364	454
250.15	40.67	26	7	3.50	2.72	22.16	689.7	317.7	1007.4	128.8	126.1	0.1346	387	483
250.41	58.43	30	7	3.26	3.26	22.82	692.1	456.4	1148.5	152.9	149.0	0.1348	388	486
279.55	45.60	26	7	3.70	2.88	23.44	770.8	356.2	1127.0	144.1	141.1	0.1204	412	517
280.45	65.44	30	7	3.45	3.45	24.15	775.2	511.2	1286.4	171.3	166.9	0.1203	414	520
320.22	51.48	26	7	3.96	3.06	25.02	882.9	402.1	1285.0	164.1	160.6	0.1051	445	560
315.63	72.23	30	19	3.66	2.20	25.64	872.4	565.3	1437.7	190.5	185.8	0.1069	443	558
355.09	57.71	26	7	4.17	3.24	26.40	979.1	450.8	1429.8	182.8	178.9	0.0948	472	596
354.71	81.01	30	19	3.88	2.33	27.17	980.4	634.0	1614.4	210.8	205.5	0.0951	473	599
400.75	65.44	26	7	4.43	3.45	28.07	1105.0	511.2	1616.2	206.7	202.3	0.0840	505	641
399.95	91.04	30	19	4.12	2.47	28.83	1105.5	712.5	1818.0	237.3	231.4	0.0844	505	643
450.73	58.50	54	19	3.26	1.98	29.46	1245.8	457.9	1703.7	208.9	205.1	0.0749	530	676
498.97	63.33	54	19	3.43	2.06	30.88	1379.1	495.7	1874.8	229.3	225.2	0.0676	561	717
558.85	70.92	54	19	3.63	2.18	32.68	1544.6	555.1	2099.7	256.8	252.2	0.0604	597	767
628.64	79.63	54	19	3.85	2.31	34.65	1737.5	623.2	2360.7	285.8	280.6	0.0537	636	821
709.46	89.57	54	19	4.09	2.45	36.79	1960.9	701.0	2661.9	322.1	316.3	0.0476	679	881
798.85	100.88	54	19	4.34	2.60	39.04	2208.0	789.6	2997.6	362.7	356.2	0.0422	723	945
898.3	72.88	84	19	3.69	2.21	40.57	2488.9	570.4	3059.3	354.6	349.8	0.0377	775	1016
998.32	81.01	84	19	3.89	2.33	42.77	2766.0	634.0	3400.0	391.0	385.8	0.0339	818	1079
1119.86	91.04	84	19	4.12	2.47	45.31	3102.8	712.5	3815.3	438.9	433.0	0.0302	866	1151
1248.38	101.65	84	19	4.35	2.61	47.85	3458.9	795.6	4254.5	489.5	482.8	0.0271	913	1221

**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/m<sup>2</sup> Solar radiation

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

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - AS 3607**

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
		Aluminum	Steel	Aluminum	Steel						
		(mm <sup>2</sup> )	(No.)	(No.)	(mm)					(mm)	(mm)
Apple	49.48	6	1	3.00	3.00	9.00	171	20.2	0.785	128	154
Banana	77.31	6	1	3.75	3.75	11.25	268	31.5	0.503	167	202
Cherry	120.4	6	7	4.75	1.60	14.30	402	47.4	0.313	221	270
Fig	182.8	18	1	3.50	3.50	17.50	552	60.8	0.193	311	384
Lemon	261.5	30	7	3.00	3.00	21.00	973	117	0.158	354	441
Lime	356.0	30	7	3.50	3.50	24.50	1320	158	0.116	422	531

**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/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A2/S1A**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.4	3.07	21.5	6	1	1.98	1.98	5.94	74.4	9.02	1.7934	78	93
25	17	28.8	4.8	33.6	6	1	2.47	2.47	7.41	116.2	13.96	1.1478	102	122
40	17	46.0	7.67	53.7	6	1	3.13	3.13	9.39	185.9	22.02	0.7174	135	163
63	17	72.5	12.1	84.6	6	1	3.92	3.92	11.76	292.8	34.68	0.4555	177	215
100	6	115	6.39	121	18	1	2.85	2.85	14.25	366.4	41.24	0.2880	246	301
125	6	144	7.99	152	18	1	3.19	3.19	15.95	458.0	51.23	0.2304	281	345
125	16	144	23.4	167	26	7	2.65	2.96	19.48	579.9	69.86	0.2310	290	359
160	6	184	10.2	194	18	1	3.61	3.61	18.05	586.2	65.58	0.1800	324	400
160	16	184	30.0	214	26	7	3.00	2.34	19.02	742.3	88.52	0.1805	326	404
200	6	230	12.8	243	18	1	4.04	4.04	20.20	732.8	81.97	0.1440	369	458
200	16	230	37.5	268	26	7	3.36	2.61	21.27	927.9	110.64	0.1444	371	462
250	10	288	28.3	316	22	7	4.08	2.27	23.13	1013.5	117.09	0.1154	420	526
250	16	288	46.9	335	26	7	3.75	2.92	23.76	1159.8	138.31	0.1155	421	529
315	7	363	25.1	388	45	7	3.20	2.14	25.62	1196.5	136.28	0.0917	471	594
315	16	363	59.0	422	26	7	4.21	3.28	26.68	1461.4	171.90	0.0917	480	607
400	7	460	31.8	492	45	7	3.61	2.41	28.89	1519.4	201.46	0.0722	538	685
400	13	460	59.7	520	54	7	3.29	3.29	29.61	1738.3	193.61	0.0723	540	688
450	7	518	35.8	554	45	7	3.83	2.55	30.63	1709.3	226.64	0.0642	574	734
450	13	518	67.1	585	54	7	3.49	3.49	31.41	1955.6	215.12	0.0643	576	738
500	7	575	39.8	615	45	7	4.04	2.69	32.31	1899.3	251.82	0.0578	608	781
500	13	575	74.6	650	54	7	3.68	3.68	33.12	2172.9	240.93	0.0578	611	785
560	7	646	44.6	691	45	7	4.27	2.85	34.17	2127.2	283.21	0.0516	647	834
560	13	646	81.6	728	54	19	3.90	2.34	35.10	2420.9	249.62	0.0516	649	840
630	4	725	31.3	756	72	7	3.58	2.39	35.81	2248.0	318.61	0.0459	696	902
630	13	725	91.8	817	54	19	4.13	2.48	37.18	2723.5	281.32	0.0459	691	899
710	4	817	35.3	852	72	7	3.80	2.53	37.99	2533.4	359.06	0.0407	741	966
710	13	817	104	921	54	19	4.39	2.63	39.49	3069.4	316.98	0.0407	737	964
800	4	921	39.8	961	72	7	4.04	2.69	40.39	2854.6	359.03	0.0361	789	1034
800	8	921	76.7	998	84	7	3.74	3.74	41.14	3145.1	359.03	0.0362	791	1039
900	4	1036	44.8	1081	72	7	4.28	2.85	42.79	3211.4	356.60	0.0321	837	1104
900	8	1036	86.3	1122	84	7	3.96	3.96	43.56	3538.3	400.53	0.0322	839	1109
1000	8	1151	93.7	1245	84	19	4.18	2.51	45.99	3916.8	446.37	0.0298	873	1161
1120	8	1289	105	1394	84	19	4.42	2.65	48.61	4368.6	499.93	0.0258	934	1252

**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/m<sup>2</sup> Solar radiation

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

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A2/S1B**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.4	3.07	21.5	6	1	1.98	1.98	5.94	74.4	8.81	1.7934	78	93
25	17	28.8	4.8	33.6	6	1	2.47	2.47	7.41	116.2	13.62	1.1478	102	122
40	17	46.0	7.67	53.7	6	1	3.13	3.13	9.39	185.9	21.25	0.7174	135	163
63	17	72.5	12.1	84.6	6	1	3.92	3.92	11.76	292.8	33.48	0.4555	177	215
100	6	115	6.39	121	18	1	2.85	2.85	14.25	366.4	40.79	0.2880	246	301
125	6	144	7.99	152	18	1	3.19	3.19	15.95	458.0	50.43	0.2304	281	345
125	16	144	23.4	167	26	7	2.65	2.96	19.48	579.9	68.22	0.2310	290	359
160	6	184	10.2	194	18	1	3.61	3.61	18.05	586.2	64.56	0.1800	324	400
160	16	184	30.0	214	26	7	3.00	2.34	19.02	742.3	86.42	0.1805	326	404
200	6	230	12.8	243	18	1	4.04	4.04	20.20	732.8	80.69	0.1440	369	458
200	16	230	37.5	268	26	7	3.36	2.61	21.27	927.9	108.02	0.1444	371	462
250	10	288	28.3	316	22	7	4.08	2.27	23.13	1013.5	115.12	0.1154	420	526
250	16	288	46.9	335	26	7	3.75	2.92	23.76	1159.8	135.03	0.1155	421	529
315	7	363	25.1	388	45	7	3.20	2.14	25.62	1196.5	134.52	0.0917	471	594
315	16	363	59.0	422	26	7	4.21	3.28	26.68	1461.4	166.00	0.0917	480	607
400	7	460	31.8	492	45	7	3.61	2.41	28.89	1519.4	169.87	0.0722	538	685
400	13	460	59.7	520	54	7	3.29	3.29	29.61	1738.3	195.49	0.0723	540	688
450	7	518	35.8	554	45	7	3.83	2.55	30.63	1709.3	191.10	0.0642	574	734
450	13	518	67.1	585	54	7	3.49	3.49	31.41	1955.6	219.93	0.0643	576	738
500	7	575	39.8	615	45	7	4.04	2.69	32.31	1899.3	212.33	0.0578	608	781
500	13	575	74.6	650	54	7	3.68	3.68	33.12	2172.9	244.36	0.0578	611	785
560	7	646	44.6	691	45	7	4.27	2.85	34.17	2127.2	237.82	0.0516	647	834
560	13	646	81.6	728	54	19	3.90	2.34	35.10	2420.9	277.49	0.0516	649	840
630	4	725	31.3	756	72	7	3.58	2.39	35.81	2248.0	247.43	0.0459	696	902
630	13	725	91.8	817	54	19	4.13	2.48	37.18	2723.5	312.18	0.0459	691	899
710	4	817	35.3	852	72	7	3.80	2.53	37.99	2533.4	278.85	0.0407	741	966
710	13	817	104	921	54	19	4.39	2.63	39.49	3069.4	351.82	0.0407	737	964
800	4	921	39.8	961	72	7	4.04	2.69	40.39	2854.6	314.19	0.0361	789	1034
800	8	921	76.7	998	84	7	3.74	3.74	41.14	3145.1	348.35	0.0362	791	1039
900	4	1036	44.8	1081	72	7	4.28	2.85	42.79	3211.4	353.47	0.0321	837	1104
900	8	1036	86.3	1122	84	7	3.96	3.96	43.56	3538.3	391.90	0.0322	839	1109
1000	8	1151	93.7	1245	84	19	4.18	2.51	45.99	3916.8	439.81	0.0298	873	1161
1120	8	1289	105	1394	84	19	4.42	2.65	48.61	4368.6	492.59	0.0258	934	1252

**NOTE :**

 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation

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

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A2/S3A**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.4	3.07	21.5	6	1	1.98	1.98	5.94	74.4	9.88	1.7934	78	93
25	17	28.8	4.8	33.6	6	1	2.47	2.47	7.41	116.2	15.25	1.1478	102	122
40	17	46.0	7.67	53.7	6	1	3.13	3.13	9.39	185.9	24.71	0.7174	135	163
63	17	72.5	12.1	84.6	6	1	3.92	3.92	11.76	292.8	37.58	0.4555	177	215
100	6	115	6.39	121	18	1	2.85	2.85	14.25	366.4	42.97	0.2880	246	301
125	6	144	7.99	152	18	1	3.19	3.19	15.95	458.0	53.47	0.2304	281	345
125	16	144	23.4	167	26	7	2.65	2.96	19.48	579.9	76.42	0.2310	290	359
160	6	184	10.2	194	18	1	3.61	3.61	18.05	586.2	68.03	0.1800	324	400
160	16	184	30.0	214	26	7	3.00	2.34	19.02	742.3	96.61	0.1805	326	404
200	6	230	12.8	243	18	1	4.04	4.04	20.20	732.8	85.04	0.1440	369	458
200	16	230	37.5	268	26	7	3.36	2.61	21.27	927.9	120.77	0.1444	371	462
250	10	288	28.3	316	22	7	4.08	2.27	23.13	1013.5	124.72	0.1154	420	526
250	16	288	46.9	335	26	7	3.75	2.92	23.76	1159.8	150.96	0.1155	421	529
315	7	363	25.1	388	45	7	3.20	2.14	25.62	1196.5	143.30	0.0917	471	594
315	16	363	59.0	422	26	7	4.21	3.28	26.68	1461.4	188.44	0.0917	480	607
400	7	460	31.8	492	45	7	3.61	2.41	28.89	1519.4	180.69	0.0722	538	685
400	13	460	59.7	520	54	7	3.29	3.29	29.61	1738.3	218.17	0.0723	540	688
450	7	518	35.8	554	45	7	3.83	2.55	30.63	1709.3	203.28	0.0642	574	734
450	13	518	67.1	585	54	7	3.49	3.49	31.41	1955.6	245.44	0.0643	576	738
500	7	575	39.8	615	45	7	4.04	2.69	32.31	1899.3	225.86	0.0578	608	781
500	13	575	74.6	650	54	7	3.68	3.68	33.12	2172.9	269.73	0.0578	611	785
560	7	646	44.6	691	45	7	4.27	2.85	34.17	2127.2	252.97	0.0516	647	834
560	13	646	81.6	728	54	19	3.90	2.34	35.10	2420.9	305.25	0.0516	649	840
630	4	725	31.3	756	72	7	3.58	2.39	35.81	2248.0	258.08	0.0459	696	902
630	13	725	91.8	817	54	19	4.13	2.48	37.18	2723.5	343.40	0.0459	691	899
710	4	817	35.3	852	72	7	3.80	2.53	37.99	2533.4	290.85	0.0407	741	966
710	13	817	104	921	54	19	4.39	2.63	39.49	3069.4	387.01	0.0407	737	964
800	4	921	39.8	961	72	7	4.04	2.69	40.39	2854.6	327.72	0.0361	789	1034
800	8	921	76.7	998	84	7	3.74	3.74	41.14	3145.1	374.44	0.0362	791	1039
900	4	1036	44.8	1081	72	7	4.28	2.85	42.79	3211.4	368.69	0.0321	837	1104
900	8	1036	86.3	1122	84	7	3.96	3.96	43.56	3538.3	421.25	0.0322	839	1109
1000	8	1151	93.7	1245	84	19	4.18	2.51	45.99	3916.8	471.67	0.0298	873	1161
1120	8	1289	105	1394	84	19	4.42	2.65	48.61	4368.6	528.27	0.0258	934	1252

**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/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A3/S1A**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.6	3.1	21.7	6	1	1.99	1.99	5.97	75.1	9.67	1.7934	78	93
25	17	29.0	4.8	33.8	6	1	2.48	2.48	7.44	117.3	14.96	1.1478	102	122
40	17	46.5	7.8	54.3	6	1	3.14	3.14	9.42	187.7	23.63	0.7174	135	163
63	17	73.2	12.2	85.4	6	1	3.94	3.94	11.82	295.6	36.48	0.4555	177	215
100	6	116	6.5	122.5	18	1	2.87	2.87	14.35	369.9	45.12	0.2880	246	301
125	6	145	8.1	153.1	18	1	3.21	3.21	16.05	462.3	56.08	0.2304	281	345
125	16	145	23.7	168.7	26	7	2.67	2.07	16.89	585.4	74.88	0.2310	290	359
160	6	186	10.3	196.3	18	1	3.63	3.63	18.15	591.8	69.92	0.1800	324	400
160	16	186	13.3	199.3	26	7	3.02	2.35	19.13	749.4	94.94	0.1805	326	404
200	6	232	12.9	244.9	18	1	4.05	4.05	20.25	739.8	87.40	0.1440	369	458
200	16	232	37.8	269.8	26	7	3.37	2.62	21.34	936.7	118.67	0.1444	371	462
250	10	290	28.5	318.5	22	7	4.10	2.28	23.24	1023.2	124.02	0.1154	420	526
250	16	290	47.3	337.3	26	7	3.77	2.93	23.87	1170.9	145.43	0.1155	421	529
315	7	366	25.3	391.3	45	7	3.22	2.15	25.77	1207.9	148.56	0.0917	471	594
315	16	366	59.6	425.6	26	7	4.23	3.29	26.79	1475.3	180.86	0.0917	480	607
400	7	465	32.1	497.1	45	7	3.63	2.42	29.04	1533.9	183.03	0.0722	538	685
400	13	465	60.2	525.2	54	7	3.31	3.31	29.79	1754.9	217.32	0.0723	540	688
450	7	523	36.1	559.1	45	7	3.85	2.56	30.78	1725.6	205.91	0.0642	574	734
450	13	523	67.8	590.8	54	7	3.51	3.51	31.59	1974.2	239.26	0.0643	576	738
500	7	581	40.2	621.2	45	7	4.05	2.70	32.40	1917.3	228.79	0.0578	608	781
500	13	581	75.3	656.3	54	7	3.70	3.70	33.30	2193.6	265.84	0.0578	611	785
560	7	651	45.0	696.0	45	7	4.29	2.86	34.32	2147.4	256.24	0.0516	647	834
560	13	651	82.4	733.4	54	19	3.92	2.35	35.27	2444.0	298.92	0.0516	649	840
630	4	732	31.6	763.6	72	7	3.60	2.40	36.00	2269.4	266.64	0.0459	696	902
630	13	732	92.7	824.7	54	19	4.15	2.49	37.35	2749.5	336.28	0.0459	691	899
710	13	825	35.6	860.6	72	7	3.82	2.55	38.21	2557.6	300.50	0.0407	741	966
710	13	825	104.0	929.0	54	19	4.41	2.65	39.71	3098.6	378.98	0.0407	737	964
800	13	930	40.2	970.2	72	7	4.05	2.70	40.50	2881.8	338.59	0.0361	789	1034
800	13	930	77.5	1007.5	84	7	3.75	3.75	41.25	3175.1	378.01	0.0362	791	1039
900	13	1046	45.2	1091.2	72	7	4.30	2.87	43.01	3242.0	380.91	0.0321	837	1104
900	13	1046	87.1	1133.1	84	7	3.98	3.98	43.78	3572.0	425.26	0.0322	839	1109
1000	13	1162	94.6	1256.6	84	19	4.20	2.52	46.20	3954.1	473.86	0.0298	873	1161
1120	13	1301	106.0	1407.0	84	19	4.44	2.66	48.82	4428.6	530.72	0.0258	934	1252

**NOTE :**

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation

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



**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A3/S1B**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.6	3.1	21.7	6	1	1.99	1.99	5.97	75.1	9.45	1.7934	78	93
25	17	29.0	4.8	33.8	6	1	2.48	2.48	7.44	117.3	14.62	1.1478	102	122
40	17	46.5	7.8	54.3	6	1	3.14	3.14	9.42	187.7	22.85	0.7174	135	163
63	17	73.2	12.2	85.4	6	1	3.94	3.94	11.82	295.6	35.26	0.4555	177	215
100	6	116	6.5	122.5	18	1	2.87	2.87	14.35	369.9	44.67	0.2880	246	301
125	6	145	8.1	153.1	18	1	3.21	3.21	16.05	462.3	55.27	0.2304	281	345
125	16	145	23.7	168.7	26	7	2.67	2.07	16.89	585.4	73.22	0.2310	290	359
160	6	186	10.3	196.3	18	1	3.63	3.63	18.15	591.8	68.89	0.1800	324	400
160	16	186	13.3	199.3	26	7	3.02	2.35	19.13	749.4	92.82	0.1805	326	404
200	6	232	12.9	244.9	18	1	4.05	4.05	20.25	739.8	86.11	0.1440	369	458
200	16	232	37.8	269.8	26	7	3.37	2.62	21.34	936.7	116.02	0.1444	371	462
250	10	290	28.5	318.5	22	7	4.10	2.28	23.24	1023.2	122.02	0.1154	420	526
250	16	290	47.3	337.3	26	7	3.77	2.93	23.87	1170.9	142.12	0.1155	421	529
315	7	366	25.3	391.3	45	7	3.22	2.15	25.77	1207.9	146.78	0.0917	471	594
315	16	366	59.6	425.6	26	7	4.23	3.29	26.79	1475.3	174.90	0.0917	480	607
400	7	465	32.1	497.1	45	7	3.63	2.42	29.04	1533.9	180.78	0.0722	538	685
400	13	465	60.2	525.2	54	7	3.31	3.31	29.79	1754.9	211.29	0.0723	540	688
450	7	523	36.1	559.1	45	7	3.85	2.56	30.78	1725.6	203.38	0.0642	574	734
450	13	523	67.8	590.8	54	7	3.51	3.51	31.59	1974.2	232.48	0.0643	576	738
500	7	581	40.2	621.2	45	7	4.05	2.70	32.40	1917.3	225.96	0.0578	608	781
500	13	581	75.3	656.3	54	7	3.70	3.70	33.30	2193.6	258.31	0.0578	611	785
560	7	651	45.0	696.0	45	7	4.29	2.86	34.32	2147.4	253.09	0.0516	647	834
560	13	651	82.4	733.4	54	19	3.92	2.35	35.27	2444.0	293.15	0.0516	649	840
630	4	732	31.6	763.6	72	7	3.60	2.40	36.00	2269.4	264.42	0.0459	696	902
630	13	732	92.7	824.7	54	19	4.15	2.49	37.35	2749.5	329.79	0.0459	691	899
710	13	825	35.6	860.6	72	7	3.82	2.55	38.21	2557.6	298.00	0.0407	741	966
710	13	825	104.0	929.0	54	19	4.41	2.65	39.71	3098.6	371.67	0.0407	737	964
800	13	930	40.2	970.2	72	7	4.05	2.70	40.50	2881.8	335.78	0.0361	789	1034
800	13	930	77.5	1007.5	84	7	3.75	3.75	41.25	3175.1	370.26	0.0362	791	1039
900	13	1046	45.2	1091.2	72	7	4.30	2.87	43.01	3242.0	377.75	0.0321	837	1104
900	13	1046	87.1	1133.1	84	7	3.98	3.98	43.78	3572.0	416.54	0.0322	839	1109
1000	13	1162	94.6	1256.6	84	19	4.20	2.52	46.20	3954.1	467.24	0.0298	873	1161
1120	13	1301	106.0	1407.0	84	19	4.44	2.66	48.82	4428.6	523.30	0.0258	934	1252

**NOTE :**

Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation  
 Customized conductor sizes based on customer's requirement can also be designed.

**ALL ALUMINUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR) - IEC 61089 - Type A3/S3A**

Code Number	Steel Ratio	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
		Alloy	Steel	Total	Aluminum	Steel	Aluminum	Steel						
-	%	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(mm)	(mm)	(mm)	(Kg/Km)	KN	(Ω/Km)	(Ampere)	(Ampere)
16	17	18.6	3.1	21.7	6	1	1.99	1.99	5.97	75.10	10.53	1.7934	78	93
25	17	29.0	4.8	33.8	6	1	2.48	2.48	7.44	117.30	16.27	1.1478	102	122
40	17	46.5	7.8	54.3	6	1	3.14	3.14	9.42	187.70	25.79	0.7174	135	163
63	17	73.2	12.2	85.4	6	1	3.94	3.94	11.82	295.60	39.41	0.4555	177	215
100	6	116	6.5	122.5	18	1	2.87	2.87	14.35	369.90	46.86	0.2880	246	301
125	6	145	8.1	153.1	18	1	3.21	3.21	16.05	462.30	58.34	0.2304	281	345
125	16	145	23.7	168.7	26	7	2.67	2.07	16.89	585.40	81.50	0.2310	290	359
160	6	186	10.3	196.3	18	1	3.63	3.63	18.15	591.80	72.40	0.1800	324	400
160	16	186	13.3	199.3	26	7	3.02	2.35	19.13	749.40	103.11	0.1805	326	404
200	6	232	12.9	244.9	18	1	4.05	4.05	20.25	739.80	90.50	0.1440	369	458
200	16	232	37.8	269.8	26	7	3.37	2.62	21.34	936.70	128.89	0.1444	371	462
250	10	290	28.5	318.5	22	7	4.10	2.28	23.24	1023.20	131.72	0.1154	420	526
250	16	290	47.3	337.3	26	7	3.77	2.93	23.87	1170.90	158.21	0.1155	421	529
315	7	366	25.3	391.3	45	7	3.22	2.15	25.77	1207.90	155.64	0.0917	471	594
315	16	366	59.6	425.6	26	7	4.23	3.29	26.79	1475.30	197.55	0.0917	480	607
400	7	465	32.1	497.1	45	7	3.63	2.42	29.04	1533.90	191.71	0.0722	538	685
400	13	465	60.2	525.2	54	7	3.31	3.31	29.79	1754.90	234.19	0.0723	540	688
450	7	523	36.1	559.1	45	7	3.85	2.56	30.78	1725.60	215.67	0.0642	574	734
450	13	523	67.8	590.8	54	7	3.51	3.51	31.59	1974.20	255.52	0.0643	576	738
500	7	581	40.2	621.2	45	7	4.05	2.70	32.40	1917.30	239.63	0.0578	608	781
500	13	581	75.3	656.3	54	7	3.70	3.70	33.30	2193.60	283.91	0.0578	611	785
560	7	651	45.0	696.0	45	7	4.29	2.86	34.32	2147.40	268.39	0.0516	647	834
560	13	651	82.4	733.4	54	19	3.92	2.35	35.27	2444.00	321.17	0.0516	649	840
630	4	732	31.6	763.6	72	7	3.60	2.40	36.00	2269.40	275.18	0.0459	696	902
630	13	732	92.7	824.7	54	19	4.15	2.49	37.35	2749.50	361.32	0.0459	691	899
710	13	825	35.6	860.6	72	7	3.82	2.55	38.21	2557.60	310.12	0.0407	741	966
710	13	825	104.0	929.0	54	19	4.41	2.65	39.71	3098.60	407.20	0.0407	737	964
800	13	930	40.2	970.2	72	7	4.05	2.70	40.50	2881.80	349.43	0.0361	789	1034
800	13	930	77.5	1007.5	84	7	3.75	3.75	41.25	3175.10	396.60	0.0362	791	1039
900	13	1046	45.2	1091.2	72	7	4.30	2.87	43.01	3242.00	393.11	0.0321	837	1104
900	13	1046	87.1	1133.1	84	7	3.98	3.98	43.78	3572.00	446.17	0.0322	839	1109
1000	13	1162	94.6	1256.6	84	19	4.20	2.52	46.20	3954.10	499.40	0.0298	873	1161
1120	13	1301	106.0	1407.0	84	19	4.44	2.66	48.82	4428.60	559.33	0.0258	934	1252

**NOTE :**

 Current capacity based on referenced conductor temperature, 0.56 m/s wind, 0 m Elevation, 0.45 Emmisivity, 0.80 absorptivity, 45°C Ambient temperature, 1045 W/m<sup>2</sup> Solar radiation

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