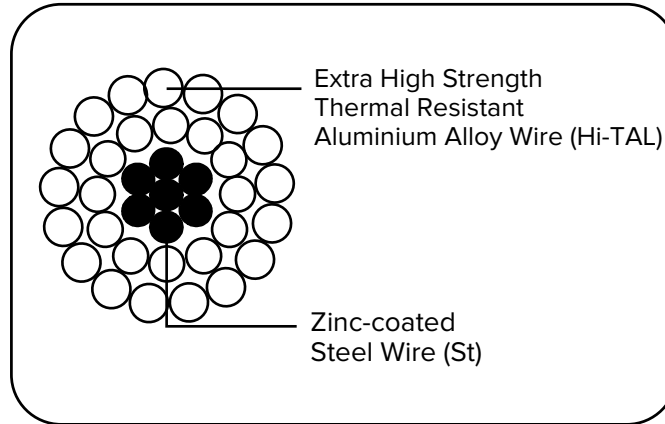




## Hi-TACSR CONDUCTOR



### HIGH STRENGTH-THERMAL RESISTANT ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED - (HI-TACSR)

Conductor Size (mm <sup>2</sup> )	Stranding				Cross-Sectional Area			Conductor Diameter (mm)	Weight (Kg/Km)	Rated Strength				DC Resistance @ 20°C (Ω/Km)	Current Capacity		
	No. of Wires		Wire diameter		HiTAL	Steel	Total			Total	Regular Strength	HS	EHS		UHS	@ 85°C (Ampere)	@ 150°C (Ampere)
	HiTAL	Steel	HiTAL	Steel													
58	6	1	3.50	3.50	57.73	9.62	67.35	10.5	233.3	25.8	27.2	28.2	28.5	0.5512	190	316	
80	6	1	4.20	4.20	83.13	13.85	96.98	12.6	335.9	34.9	37.3	38.8	39.2	0.3828	238	399	
80	15	4	2.60	2.60	79.64	21.24	100.88	13.0	387.4	46.9	49.7	51.9	52.7	0.4007	234	394	
95	6	1	4.50	4.50	95.43	15.90	111.33	13.5	385.6	40.1	42.8	44.5	45.0	0.3335	258	436	
100	15	4	2.90	2.90	99.08	26.42	125.50	14.5	481.9	58.1	61.5	64.3	65.2	0.3221	267	453	
120	15	4	3.20	3.20	120.64	32.17	152.81	16.0	586.8	69.0	73.5	76.7	77.8	0.2645	301	514	





## HIGH STRENGTH-THERMAL RESISTANT ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED - (HI-TACSR)

Conductor Size (mm <sup>2</sup> )	Stranding				Cross-Sectional Area			Conductor Diameter (mm)	Weight (Kg/Km)	Rated Strength				DC Resistance @ 20°C (Ω/Km)	Current Capacity		
	No. of Wires		Wire diameter		HiTAL (mm <sup>2</sup> )	Steel (mm <sup>2</sup> )	Total (mm <sup>2</sup> )			Total	Regular Strength (KN)	HS (KN)	EHS (KN)		UHS (KN)	@ 85°C (Ampere)	@ 150°C (Ampere)
	HiTAL (No.)	Steel (No.)	HiTAL (mm)	Steel (mm)													
120	30	7	2.30	2.30	124.64	29.08	153.72	16.1	571.0	67.3	71.0	74.1	75.1	0.2566	327	559	
160	30	7	2.60	2.60	159.28	37.17	196.45	18.2	729.8	87.1	91.9	95.8	97.1	0.2008	380	655	
200	30	7	2.90	2.90	198.16	46.24	244.40	20.3	907.8	107.7	113.8	118.6	120.2	0.1614	433	753	
240	30	7	3.20	3.20	241.27	56.30	297.57	22.4	1105.4	128.0	135.8	141.5	143.4	0.1326	488	855	
330	26	7	4.00	3.10	326.73	52.83	379.56	25.3	1315.0	143.3	150.7	156.0	157.8	0.0980	581	1029	
410	26	7	4.50	3.50	413.51	67.35	480.86	28.5	1668.1	176.6	186.0	192.7	195.1	0.0774	669	1199	
480	45	7	3.70	2.47	483.85	33.54	517.39	29.6	1599.1	162.9	167.3	170.8	172.0	0.0662	718	1292	
520	54	7	3.50	3.50	519.54	67.35	586.89	31.5	1963.3	208.7	218.2	224.9	227.2	0.0617	753	1363	
560	54	19	3.63	2.18	558.85	70.92	629.77	32.7	2101.8	227.6	237.5	244.6	246.7	0.0574	786	1428	
610	54	7	3.80	3.80	612.42	79.39	691.81	34.2	2314.3	240.5	254.0	262.7	265.1	0.0524	829	1513	
630	54	19	3.85	2.31	628.65	79.63	708.28	34.7	2363.1	251.6	261.9	270.3	273.1	0.0510	842	1540	
680	45	7	4.40	2.90	684.24	46.24	730.48	35.1	2252.0	213.1	219.2	224.0	225.6	0.0468	879	1610	
680	54	7	4.00	4.00	678.59	87.96	766.55	36.0	2564.2	264.4	279.4	289.1	291.7	0.0473	880	1616	
710	54	19	4.09	2.45	709.47	89.57	799.04	36.8	2664.6	274.3	285.9	295.3	298.5	0.0452	904	1663	
800	54	19	4.34	2.61	798.85	101.65	900.50	39.1	3006.5	309.9	323.1	333.7	337.3	0.0402	968	1793	
810	45	7	4.80	3.20	814.30	56.30	870.60	38.4	2690.0	244.9	252.8	258.4	260.4	0.0394	972	1798	
1120	72	19	4.45	1.78	1119.81	47.28	1167.09	44.5	3467.7	313.9	320.5	325.2	326.7	0.0286	1172	2214	
1160	84	7	4.20	4.20	1163.77	96.98	1260.75	46.2	3978.9	375.3	391.8	402.5	405.4	0.0276	1203	2283	
1250	84	19	4.35	2.61	1248.39	101.65	1350.04	47.9	4252.3	411.0	424.2	434.9	438.5	0.0257	1251	2385	
1520	84	7	4.80	4.80	1520.03	126.67	1646.70	52.8	5197.0	475.0	487.7	510.5	514.3	0.0211	1387	2687	

