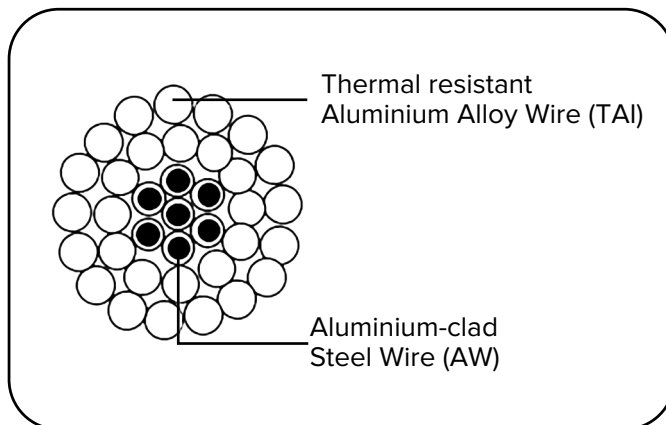


TACSR AW CONDUCTOR



THERMAL RESISTANT ALUMINIUM CONDUCTOR, ALUMINUM CLAD STEEL REINFORCED - (TACSR/AW)

Stranding					Cross-Sectional Area			Conductor Diameter	Weight	Rated Strength		DC Resistance @ 20°C	Current Capacity	
Conductor Size	No. of Wires		Wire diameter		TAL	Steel	Total		Total	High Strength	Extra High Strength		@ 85°C	@ 150°C
	TAL	Steel	TAL	Steel										
(mm²)	(No.)	(No.)	(mm)	(mm)	(mm²)	(mm²)	(mm²)	(mm)	(Kg/Km)	(KN)	(KN)	(Ω/Km)	(Ampere)	(Ampere)
58	6	1	3.50	3.50	57.73	9.62	67.35	10.5	221.8	20.3	22.2	0.4956	199	328
80	6	1	4.20	4.20	83.13	13.85	96.98	12.6	319.4	28.0	31.2	0.3442	248	414
95	6	1	4.50	4.50	95.43	15.90	111.33	13.5	366.7	31.6	35.8	0.2998	270	452
80	15	4	2.60	2.60	79.64	21.24	100.88	13.0	361.6	39.0	42.4	0.3369	252	422
100	15	4	2.90	2.90	99.08	26.42	125.50	14.5	449.9	48.2	52.4	0.2708	288	485
120	15	4	3.20	3.20	120.64	32.17	152.81	16.0	547.8	58.2	62.3	0.2229	324	550
120	30	7	2.30	2.30	124.64	29.08	153.72	16.1	536.2	56.0	60.6	0.2180	352	596
160	30	7	2.60	2.60	159.28	37.17	196.45	18.2	685.3	71.5	77.5	0.1706	408	698
200	30	7	2.90	2.90	198.16	46.24	244.40	20.3	852.6	88.4	95.8	0.1371	465	803
240	30	7	3.20	3.20	241.27	56.30	297.57	22.4	1038.1	106.7	114.0	0.1126	524	912
330	26	7	4.00	3.10	326.73	52.83	379.56	25.3	1251.9	115.4	122.2	0.0852	617	1085





THERMAL RESISTANT ALUMINIUM CONDUCTOR, ALUMINUM CLAD STEEL REINFORCED - (TACSR/AW)

Stranding					Cross-Sectional Area			Conductor Diameter	Weight	Rated Strength		DC Resistance @ 20°C	Current Capacity	
Conductor Size	No. of Wires		Wire diameter		TAL	Steel	Total		Total	High Strength	Extra High Strength		@ 85°C	@ 150°C
	TAL	Steel	TAL	Steel										
(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm ²)	(mm ²)	(mm ²)	(mm)	(Kg/Km)	(KN)	(KN)	(Ω/Km)	(Ampere)	(Ampere)
410	26	7	4.50	3.50	413.51	67.35	480.86	28.5	1587.6	142.5	155.3	0.0673	710	1263
480	45	7	3.70	2.47	483.85	33.54	517.39	29.6	1559.0	118.6	124.0	0.0593	750	1340
520	54	7	3.50	3.50	519.54	67.35	586.89	31.5	1882.8	160.9	173.7	0.0542	795	1428
560	54	19	3.63	2.18	558.85	70.92	629.77	32.7	2016.7	175.6	189.1	0.0504	829	1496
610	54	7	3.80	3.80	612.42	79.39	691.81	34.2	2219.4	186.5	202.4	0.0460	875	1586
630	54	19	3.85	2.31	628.65	79.63	708.28	34.7	2267.6	195.5	208.3	0.0448	888	1613
680	54	7	4.00	4.00	678.59	87.96	766.55	36.0	2459.1	204.7	222.2	0.0415	929	1694
680	45	7	4.40	2.90	684.24	46.24	730.48	35.1	2196.8	164.3	171.7	0.0420	917	1669
710	54	19	4.09	2.45	709.47	89.57	799.04	36.8	2557.2	220.3	234.6	0.0397	953	1742
800	54	19	4.34	2.61	798.85	101.65	900.50	39.1	2884.6	249.0	265.3	0.0353	1020	1878
810	45	7	4.80	3.20	814.30	56.30	870.60	38.4	2622.8	191.3	198.7	0.0352	1015	1867
1120	72	19	4.45	1.78	1119.81	47.28	1167.09	44.5	3411.0	234.8	243.8	0.0259	1214	2281
1160	84	7	4.20	4.20	1163.77	96.98	1260.75	46.2	3863.0	288.8	311.1	0.0246	1256	2369
1250	84	19	4.35	2.61	1248.39	101.65	1350.04	47.9	4130.4	320.5	336.7	0.0229	1304	2475
1520	84	7	4.80	4.80	1520.03	126.67	1646.70	52.8	5045.6	357.7	395.7	0.0188	1442	2785

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 temperatures, 1045 W/m² Solar radiation

