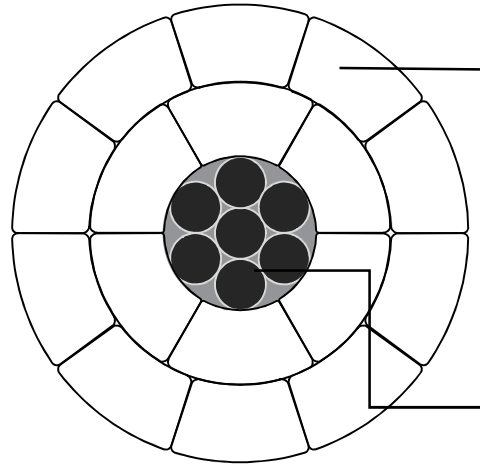




## Hi-TACI R TW CONDUCTOR



Extra high Strength Thermal Resistant Aluminium Alloy Wire (Hi-TAL)

Aluminium Clad Steel Wire AW

### THERMAL RESISTANT ALUMINIUM CONDUCTOR STEEL REINFORCED - (TACSR)

Cross-Sectional Area				Stranding				Conductor Diameter	Weight	Rated Strength					DC Resistance @ 20°C	Current Capacity	
Conductor Size	Hi-TAL	Steel	Total	No. of	No. of	No. of	No. of			Total	Regular Strength	HS	EHS	UHS		@ 85°C	@ 150°C
				Hi-TAL Wires	Hi-TAL Layers	Steel Wires	Steel Wires										
(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(No.)	(mm)	(Kg/Km)	(KN)	(KN)	(KN)	(KN)	(Ω/Km)	(Ampere)	(Ampere)		
170	170.5	9.5	179.9	14	2	1	3.47	15.6	543.5	52.3	53.6	54.6	54.9	0.1876	380	648	
205	205.3	11.7	217.0	14	2	1	3.86	17.1	657.0	59.9	61.9	63.2	63.5	0.1558	425	730	
240	241.7	39.2	280.9	18	2	7	2.67	19.4	972.6	104.6	109.6	113.8	115.1	0.1323	474	822	
280	282.0	45.9	327.9	20	2	7	2.89	21.0	1136.2	122.2	128.2	133.0	134.6	0.1133	521	908	
290	289.7	37.7	327.4	18	2	7	2.62	21.0	1093.5	110.6	115.5	119.5	120.8	0.1104	527	919	
320	322.3	52.5	374.8	20	2	7	3.09	20.5	1298.7	134.4	141.7	147.0	148.8	0.0993	553	962	
340	336.9	54.9	391.8	20	2	7	3.16	22.9	1357.7	140.5	148.2	153.7	155.6	0.0949	579	1017	





## THERMAL RESISTANT ALUMINIUM CONDUCTOR STEEL REINFORCED - (TACS)

Cross-Sectional Area				Stranding				Conductor Diameter	Weight Total	Rated Strength				DC Resistance @ 20°C	Current Capacity	
Conductor Size	Hi-TAL	Steel	Total	No. of	No. of	No. of	No. of			Regular Strength	HS	EHS	UHS		@ 85°C	@ 150°C
				Hi-TAL	Hi-TAL	Steel	Steel									
(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(mm <sup>2</sup> )	(No.)	(No.)	(No.)	(mm)	(Kg/Km)	(KN)	(KN)	(KN)	(KN)	(Ω/Km)	(Ampere)	(Ampere)	
390	389.3	50.8	440.1	20	2	7	3.04	24.4	1470.2	146.7	153.8	160.7	162.4	0.0821	630	1112
405	402.8	52.2	455.0	20	2	7	3.08	24.8	1518.1	151.3	158.6	163.8	165.6	0.0794	642	1136
480	479.7	47.2	526.9	35	3	7	2.93	26.6	1697.8	168.3	174.5	179.4	181.1	0.0670	692	1224
490	489.6	63.6	553.1	24	2	7	3.40	27.3	1846.4	184.1	193.0	199.3	201.5	0.0653	705	1249
525	523.7	26.9	550.5	30	3	7	2.21	27.3	1660.7	147.8	151.5	154.2	155.0	0.0613	726	1287
590	586.8	41.3	628.0	33	3	7	2.74	29.1	1948.2	179.0	184.4	188.7	190.1	0.0548	778	1387
625	625.1	79.6	704.7	38	3	19	2.31	30.8	2356.1	236.3	246.7	255.0	257.8	0.0514	812	1457
640	637.0	44.0	681.0	35	3	7	2.83	30.3	2108.8	193.3	199.0	203.7	205.2	0.0504	816	1462
680	676.2	86.0	762.2	39	3	19	2.40	32.0	2547.5	255.4	266.6	275.6	278.6	0.0476	850	1530
690	689.0	47.5	736.5	36	3	7	2.94	31.5	2280.1	209.0	215.1	220.1	221.8	0.0467	854	1536
725	725.1	91.8	816.9	39	3	19	2.48	33.2	2728.5	273.4	285.3	294.9	298.2	0.0443	886	1602
730	726.4	91.8	818.2	39	3	19	2.48	33.2	2732.1	273.7	285.6	295.2	298.4	0.0442	887	1604
740	737.4	51.1	788.5	36	3	7	3.05	32.6	2442.6	222.0	229.1	234.2	236.0	0.0435	890	1606
780	776.9	98.6	875.5	39	3	19	2.57	34.3	2925.2	293.2	306.0	316.4	319.8	0.0413	923	1675
790	789.1	54.6	843.7	36	3	7	3.15	33.7	2612.6	237.3	245.0	250.4	252.3	0.0407	925	1676
820	821.9	108.8	930.7	39	3	19	2.70	35.4	3129.9	316.0	330.1	341.5	345.3	0.0391	954	1736
840	839.8	58.1	897.9	36	3	7	3.25	34.8	2780.5	252.6	260.7	266.5	268.5	0.0383	958	1742
880	876.9	111.2	988.1	42	3	19	2.73	36.5	3301.4	330.9	345.3	357.0	360.9	0.0367	989	1806
890	891.1	61.7	952.8	42	3	7	3.35	35.9	2950.9	268.1	276.7	282.9	285.1	0.0361	991	1808
900	901.9	73.5	975.5	42	3	19	2.22	36.3	3075.4	290.3	300.6	307.9	310.1	0.0357	999	1825
980	976.4	123.8	1100.1	42	3	19	2.88	38.5	3675.5	368.4	384.4	397.4	401.8	0.0329	1053	1936
990	987.9	68.9	1056.8	42	3	7	3.54	37.8	3275.3	293.0	304.7	314.4	316.8	0.0325	1051	1932
1090	1092.4	88.8	1181.3	64	4	19	2.44	39.9	3738.0	348.6	360.1	369.5	372.6	0.0296	1136	2116
1330	1331.3	108.8	1440.0	64	4	19	2.70	44.1	4559.2	425.5	439.6	451.0	454.8	0.0242	1268	2396

**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 temperatures, 1045 W/m<sup>2</sup> Solar radiation

