GAP TYPE THERMAL-RESISTANT ALUMINUM ALLOY CONDUCTOR, ALUMINUM CLAD STEEL REINFORCED (GTACSR/AW & GZTACSR/AW)

Conductor Size	Stranding				Cross-Sectional Area			Diameter of Conductor	Weight	Rated Strength		DC Resistance @ 20°C	Current Capacity		
	No. of Wires		Wire diameter		TAL/STAL	Steel	Total		Total with Grease	Extra High Strength	Ultra-High Strength		@ 85°C	@ 150°C	@ 210°C
	TAL	Steel	TAL/STAL	Steel											
(mm^2)	(No.)	(No.)	(mm)	(mm)	(mm^2)	(mm^2)	(mm^2)	(mm)	(Kg/Km)	(KN)	(KN)	(Ω/Km)	(Ampere)	(Ampere)	(Ampere)
175	8/12	7	3 35.(TW)	2.10	176.20	24.25	200.45	17.5	647.4	57.7	62.3	0.1593	418	714	879
190	12/16	7	2.92 (TW)	2.30	187 30	29.08	216 38	18 2	710 1	65 3	69.9	0.1490	436	747	919
195	20/12	7	2.40(R)2.88(TW)	2.20	168.80	26.61	195.41	18.1	642.6	60.2	65.3	0.1652	414	708	871
218	18/12	7	2.78(R) 2.94(TW)	2.25	190.50	27.83	218.33	19.1	710.7	64.7	70.0	0.1470	444	762	940
240	8/12	7	4.02 (TW)	2.40	253.40	31.67	285.07	20.6	909.9	78.4	83.4	0.1112	518	895	1105
248	12/8	7	3.71(TW)	2.40	216.12	31.67	247.79	19.4	806.9	73.0	78.1	0.1295	474	816	1006
287	18/12	7	3.15(R) 3.43(TW)	2.55	251.00	35.75	286.75	21.8	930.3	83.6	89.3	0.1117	523	908	1122
287	20/12	7	2.90(R)55(TW)	2.55	251.00	35.75	286.75	21.8	720.3	84.1	89.8	0.1117	523	908	1122
310	16/12	7	3.90(R)3.69(TW)	2.80	319.40	43.10	362.50	24.4	1168.0	102.5	109.4	0.0880	602	1056	1310
400	18/12	7	3.90(R)45(TW)	2.80	401.40	43.10	444.50	26.9	1394.7	115.6	122.5	0.0706	685	1212	1507
410	14/12	7	4.90(R)3.99(TW)	3.00	414.00	49.48	463.48	27.6	1471.7	123.4	131.3	0.0682	700	1242	1545
439	15/12	7	4.50(R)4.04(TW)	2.90	392.50	46.24	438.74	26.8	1390.8	117.9	125.3	0.0720	678	1200	1491
462	14/12	7	4.90(R)3.99(TW)	2.95	414.30	47.84	462.14	27.6	1461.7	121.4	129.1	0.0682	070	1242	1545
540	24/14/10	7	3.55(R) 3.98(TW)	3.10	536.20	52.83	589.03	31.3	1832.8	149.4	156.2	0.0536	808	1452	1812
620	16/12/12	7	4.80(TW)4.75(TW)3.47(TW)	3.20	615.70	56.30	672.00	31.5	2075.6	162.2	169.5	0.0467	865	1556	1944

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^2 Solar radiation