



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

Conductor Size (mm ²)	Stranding				Cross-Sectional Area			Diameter of Conductor (mm)	Weight (Kg/Km)	Rated Strength			DC Resistance @ 20°C (Ω/Km)	Current Capacity		
	No. of Wires		Wire diameter		TAL/STAL (mm ²)	Steel (mm ²)	Total (mm ²)			Total with Grease (KN)	Extra High Strength (KN)	Ultra-High Strength (KN)		@ 85°C (Ampere)	@ 150°C (Ampere)	@ 210°C (Ampere)
	TAL (No.)	Steel (No.)	TAL/STAL (mm)	Steel (mm)												
175	8/12	7	3.35 (TW)	2.10	176.2	24.3	200.5	17.5	691.4	66.1	66.9	0.1668	409	698	859	
190	12/16	7	2.92 (TW)	2.30	187.3	29.1	216.4	18.2	761.9	74.4	75.5	0.1569	425	728	896	
195	20/12	7	2.40(R) 2.88(TW)	2.20	168.8	26.6	195.4	18.1	690.4	69.5	70.3	0.1741	403	689	849	
218	18/12	7	2.78(R) 2.94(TW)	2.25	190.5	27.8	218.3	19.1	760.0	74.5	75.3	0.1542	433	744	917	
240	8/12	7	4.02 (TW)	2.40	253.4	31.7	285.1	20.6	964.8	88.3	89.5	0.1159	507	877	1083	
248	12/8	7	3.71(TW)	2.40	216.1	31.7	247.8	19.4	862.8	83.0	84.1	0.1360	463	796	981	
287	18/12	7	3.15(R) 3.43(TW)	2.55	251.0	35.8	286.8	21.8	993.0	94.9	96.1	0.1171	510	886	1096	
287	20/12	7	2.90(R) 55(TW)	2.55	251.0	35.8	286.8	21.8	993.0	95.3	96.6	0.1171	510	886	1096	
310	16/12	7	3.90(R)3.69(TW)	2.80	319.4	43.1	362.5	24.4	1241.5	116.1	117.6	0.0920	589	1033	1281	
400	18/12	7	3.90(R)45(TW)	2.80	401.4	43.1	444.5	26.9	1468.2	129.2	130.7	0.0732	673	1190	1480	
410	14/12	7	4.90(R)3.99(TW)	3.00	414.0	49.5	463.5	27.6	1554.8	139.0	140.7	0.0710	687	1218	1515	
439	15/12	7	4.50(R)4.04(TW)	2.90	392.5	46.2	438.7	26.8	1469.1	132.4	134.1	0.0749	665	1176	1462	
462	14/12	7	4.90(R)3.99(TW)	2.95	414.3	47.8	462.1	27.6	1542.9	136.5	138.1	0.0709	687	1219	1516	
540	24/14/10	7	3.55(R) 3.98(TW)	3.10	536.2	52.8	589.0	31.3	1920.9	164.2	166.0	0.0548	799	1436	1793	
620	16/12/12	7	4.80(TW) 4.75(TW)3.47(TW)	3.20	615.7	56.3	672.0	31.5	2168.9	178.0	179.9	0.0478	856	1539	1922	

