

TACSR

(Thermal Resistant Aluminium Conductor Galvanized Steel Reinforced)

Standard Specification : JEC 3406 : 2010



Technical Properties

Size mm ²	Number / Diameter of Wire		Calculated Cross Section Area		Approx. Overall Diameter mm	Approx. Weight of Conductor kg/km	Calculated Breaking Load kN	DC Resistance at 20 °C Max. Ohm/km	Current Carrying Capacity * A	Standard Length per Reel m
	TAL	GSW	TAL	GSW						
120**	30 / 2.3	7 / 2.3	125	29.1	16.10	572	51.5	0.241	594	2,000
160	30 / 2.6	7 / 2.6	159	37.2	18.20	733	68.4	0.185	706	2,000
240	30 / 3.2	7 / 3.2	241	56.3	22.40	1,110	99.5	0.122	933	2,000
330	26 / 4.0	7 / 3.1	327	52.8	25.30	1,318	107.2	0.0904	1,129	2,000
410	26 / 4.5	7 / 3.5	414	67.3	28.50	1,673	136.1	0.0714	1,324	2,000
520**	54 / 3.5	7 / 3.5	520	67.3	31.50	1,969	153.0	0.0545	1,534	2,000
610	54 / 3.8	7 / 3.8	612	79.4	34.20	2,325	180.0	0.0481	1,680	2,000
680	45 / 4.4	7 / 2.9	684	46.2	35.10	2,260	152.9	0.0431	1,787	2,000
810	45 / 4.8	7 / 3.2	814	56.3	38.40	2,699	180.9	0.0363	2,007	1,000
1160	84 / 4.2	7 / 4.2	1,164	97.0	46.20	3,997	273.8	0.0254	2,594	1,000
1520	84 / 4.8	7 / 4.8	1,520	126.7	52.80	5,220	357.8	0.0195	3,073	1,000

** Not included in the specification but commonly used in Indonesia.

* Note : Ambient temperature : 40° C Continuous operating temperature of conductor : 150° C
Wind velocity : 0.5 m/sec Conductivity of TAL : 60% IACS