

TACSR / AS

(Thermal Resistant Aluminium Conductor Aluminium Clad Steel Reinforced)

Standard Specification : JEC 3406 : 2010



Technical Properties

Size	Number / Diameter of Wire		Calculated Cross Section Area		Approx. Overall Diameter	Approx. Weight of Conductor	Calculated Breaking Load	DC Resistance at 20 °C Max.	Current Carrying Capacity *	Standard Length per Reel
	TAL	AS	TAL	AS						
mm ²	No. / mm	No. / mm	mm ²	mm ²	mm	kg/km	kN	Ohm/km	A	m
120**	30/2.3	7/2.3	125	29.1	16.10	536	51.5	0.241	617	2,000
160	30/2.6	7/2.6	159	37.2	18.20	686	68.4	0.171	733	2,000
240	30/3.2	7/3.2	241	56.3	22.40	1,024	99.5	0.112	968	2,000
330	26/4.0	7/3.1	327	52.8	25.30	1,252	107.2	0.0850	1,153	2,000
410	26/4.5	7/3.5	414	67.3	28.50	1,569	136.1	0.0671	1,358	2,000
520**	54/3.5	7/3.5	520	67.3	31.50	1,881	153.0	0.0567	1,566	2,000
610	54/3.8	7/3.8	612	79.4	34.20	2,219	180.0	0.0458	1,748	2,000
680	45/4.4	7/2.9	684	46.2	35.10	2,201	152.9	0.0421	1,843	2,000
810	45/4.8	7/3.2	814	56.3	38.40	2,627	180.9	0.0353	2,067	1,000
1160	84/4.2	7/4.2	1,164	97.0	46.20	3,873	273.8	0.0246	2,613	1,000
1520	84/4.8	7/4.8	1,520	126.7	52.80	5,058	357.8	0.0190	3,082	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