

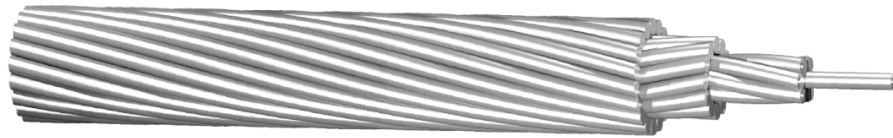
Super Thermal Aluminium Conductor Aluminium Clad Steel Reinforced STACIR/AW

Standard Specification : KEPCO

Application : Used for overhead power transmission lines

Construction

Conductor : The center wire or wires of aluminum clad steel and the outer layer or layers of thermal resistance aluminum alloy



Nominal	Cross Section Area		Number / Dia. Of Wire				Overall Diameter Approx.	Approx. Weight of Conductor	DC Resistance at 20°C Max.	Current Carrying Capacity *	Rated Ultimate Strength	Standard Length
	Calc. Cross Section Area		ST-Al		Invar							
	ST-Al	Invar	No.	mm	No.	mm						
mm ²	mm ²	mm ²	No.	mm	No.	mm	mm	kg/km	Ω/km	A	kg	m
160	159.3	37.2	30	2.60	7	2.60	18.2	707	0.1745	909	6,140	3,000
240	241.3	56.3	30	3.20	7	3.20	22.4	1,070	0.1159	1,203	9,170	3,000
280	281.1	40.1	26	3.71	7	2.70	21.6	1,064	0.1015	1,280	8,980	2,000
330	326.7	52.8	26	4.00	7	3.10	25.3	1,285	0.0869	1,452	10,000	2,000
410	413.5	67.4	26	4.50	7	3.50	28.5	1,625	0.0686	1,708	12,720	2,000
480 (Rail)	483.8	33.5	45	3.70	7	2.47	29.6	1,580	0.0600	1,812	10,500	1,500
480 (Cardinal)	484.5	62.8	54	3.38	7	3.38	30.4	1,796	0.0591	1,846	13,280	1,500

Remark : • Ambient temperature : 35°C • Wind Velocity : 0,6 m/Sec
• Continuous operating temperature of conductor : 80°C