

# 35 kV 90°C SAC

SPACED AERIAL CABLE



## Construction

- 1. Conductor : Compact round stranded hard-drawn aluminium wires
- 2. Conductor : Semi conductive cross-linked polyethylene screen (XLPE) compound
- 3. Insulation : Cross-linked polyethylene (XLPE)
- 4. Jacket : Black cross-linked polyethylene (XLPE)

## Reference Standard :

TIS 2341-2555



## Classification

Maximum conductor temperature	: 90 °C
Maximum circuit voltage	: 35,000 V
AC test voltage	: 49,000 V

## Application

- For aerial power transmission and distribution line

Conductor			Thickness of conductor screen	Thickness of insulation	Thickness of jacket	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 15.6°C	Conductor weight	Conductor breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter of conductor											
mm <sup>2</sup> (Nominal)	(Min.)	mm (Approx.)	mm (Average)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	N (Min.)	A	kg/km (Approx.)	m/drum
50	6	7.92	0.3	4.45	3.18	22.0	0.641	2.677	128	7,313	181	525	1,500
70	12	9.55	0.3	4.45	3.18	23.5	0.443	2.403	185	10,420	225	621	1,500
95	15	11.27	0.3	4.45	3.18	25.5	0.320	2.172	256	14,098	274	736	1,000
120	15	12.68	0.3	4.45	3.18	27.0	0.253	2.004	324	18,518	317	840	1,000
150	15	14.05	0.3	4.45	3.18	28.0	0.206	1.883	398	22,457	360	948	1,000
185	30	15.75	0.3	4.45	3.18	30.0	0.164	1.743	500	28,974	415	1,087	1,000
240	30	18.23	0.3	4.45	3.18	32.5	0.125	1.573	655	37,506	493	1,305	1,000