

# 15 kV 90°C SAC

SPACED AERIAL CABLE



## Construction

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

## Reference Standards

ICEA S-66-524 / MEA

## Classification

Maximum conductor temperature	: 90 °C
Maximum circuit voltage	: 15,000 V
AC test voltage	: 27,000 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
35	6	6.88	0.3	1.91	1.91	16.1	0.868	2,182	94	5,591	152	245	1,500
50	6	7.92	0.3	1.91	1.91	17.2	0.641	1,976	128	7,313	182	295	1,500
70	12	9.55	0.3	1.91	1.91	18.9	0.443	1,728	185	10,420	228	370	1,500
95	15	11.27	0.3	1.91	1.91	20.6	0.320	1,527	256	14,098	279	465	1,500
120	15	12.68	0.3	1.91	1.91	22.0	0.253	1,395	324	18,518	324	552	1,000
150	15	14.05	0.3	1.91	1.91	23.4	0.206	1,288	398	22,457	368	646	1,000
185	30	15.75	0.3	1.91	1.91	25.1	0.164	1,176	500	28,974	426	766	1,000
240	30	18.23	0.3	1.91	1.91	27.6	0.125	1,043	655	37,506	509	955	1,000