

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)

Standard :

ICEA S-66-524

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 ² (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	16.5	0.868	2,086	94	5,591	152	245	1,500
50	6	7.92	0.3	1.91	1.91	17.5	0.641	1,889	128	7,313	182	295	1,500
70	12	9.55	0.3	1.91	1.91	19.5	0.443	1,642	185	10,420	228	370	1,500
95	15	11.27	0.3	1.91	1.91	21.0	0.320	1,447	256	14,098	281	465	1,500
120	15	12.68	0.3	1.91	1.91	22.5	0.253	1,315	324	18,518	324	555	1,000
150	15	14.05	0.3	1.91	1.91	24.0	0.206	1,223	398	22,457	368	645	1,000
185	30	15.75	0.3	1.91	1.91	25.5	0.164	1,111	500	28,974	426	765	1,000
240	30	18.23	0.3	1.91	1.91	28.0	0.125	988	655	37,506	509	955	1,000