

25&35 kV 90^oC SAC

ICEA S-66-524



Construction :

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

Application :

Aerial power transmission and distribution line.

Conductor		Insulation thickness nominal mm	Jacket thickness nominal mm	Overall diameter (Approx.) mm	Maximum Conductor resistance at 20°C ohm/km	Minimum insulation resistance at 15.6°C Mohm-km	Cable weight (Approx.) kg/km	Capacitance (Approx.) µF/km	Current rating in air A	Aluminium rod weight (Approx.) kg/km	Standard Length m
Nominal cross-sectional area (sq.mm)	Number of wire Min.										
SAC 25 KV											
35	6	3.175	3.175	22.4	0.868	2564	398	0.143	150	94	500
50	6	3.175	3.175	23.6	0.641	2352	458	0.156	181	128	500
70	12	3.175	3.175	25.3	0.443	2107	548	0.174	225	185	500
95	15	3.175	3.175	27.0	0.320	1902	658	0.193	275	256	500
120	15	3.175	3.175	28.5	0.253	1760	759	0.209	319	324	500
150	15	3.175	3.175	29.9	0.206	1642	866	0.224	362	398	500
185	30	3.175	3.175	31.6	0.164	1531	1003	0.242	418	500	500
240	30	3.175	3.175	34.0	0.125	1372	1211	0.268	497	655	500
SAC 35 KV											
50	6	4.445	3.175	26.4	0.641	2647	549	0.139	181	128	500
70	12	4.445	3.175	28.0	0.443	2382	645	0.154	225	185	500
95	15	4.445	3.175	29.8	0.320	2160	762	0.170	274	256	500
120	15	4.445	3.175	31.2	0.253	2005	868	0.183	317	324	500
150	15	4.445	3.175	32.6	0.206	1876	980	0.196	360	398	500
185	30	4.445	3.175	34.4	0.164	1734	1123	0.212	415	500	500
240	30	4.445	3.175	36.8	0.125	1578	1341	0.233	493	655	500