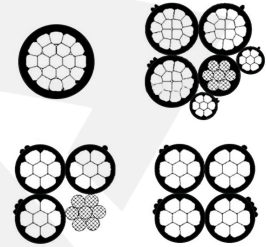


AERIAL BUNDLED CABLES (ABC) Acc. to SANS 1418



TECHNICAL DATA

- Max Operating Temperature: 90°C
- Max. short Circuit Temperature: 250°C (max. 5 sec.)
- Rated voltage: 0.6/1kV
- Cable Code: AER

APPLICATION

It is preferred to use of AER cables instead of uninsulated conductors at low voltage networks. AER cables are especially used at areas where the cost of underground networks is expensive and also for electrification of rural areas like villages.

CONSTRUCTION

- Solid or Stranded Aluminium Conductor
- PE or XLPE Insulation
- Messenger wire

NOMINAL CROSS-SECTIONAL AREA	NUMBER of WIRES	DIAMETER OF CONDUCTOR		RESISTANCE at 20 C	BREAKING FORCE	THICKNESS of INSULATION	OUTER DIAMETER OF CORE	
		mm		Ω/km	N		mm	
		Min.	Max.	Max.	Min.		mm	Min.
16	7/1.65	4.6	5.1	1.91	2070	1.2	7.0	7.8
25	7/2.15	5.8	6.3	1.2	3300	1.4	8.6	9.4
35	7/2.55	6.8	7.3	0.868	4500	1.6	10.0	10.9
50	7/2.99	7.9	8.4	0.641	6200	1.6	11.1	12.0
70	14/2.59	9.7	10.2	0.443	8900	1.8	13.3	14.2
95	19/2.59	11.0	12.0	0.320	12300	1.8	14.6	16.0
120	19/2.99	12.5	13.5	0.253	15600	1.8	16.3	17.5
150	30/2.59	13.9	15.0	0.206	19200	1.8	17.1	18.6
16	7/1.65	4.6	5.2	1.91	2070	1.2	7.0	8.0
25	7/2.15	5.6	6.5	1.2	3300	1.4	8.6	9.6
10	7/1.35	-	4.2	1.83	3600	1.2	6.2	7.0
16	7/1.69	-	5.3	1.15	5760	1.2	7.2	8.0
25	7/2.19	-	6.6	0.727	8750	1.4	8.6	9.6
16	7/1.71	5.1	5.2	2.053	5070	1.4	7.9	8.0
25	7/2.15	6.4	6.5	1.314	8000	1.4	9.2	9.3
35	7/2.48	6.6	7.5	0.986	10300	1.6	10.7	10.8
50	7/2.89	7.7	8.4	0.720	14200	1.6	11.9	12.0
54.6	7/3.15	9.2	9.6	0.630	16600	1.6	12.3	13.0
70	7/3.50	10.0	10.4	0.500	20100	1.6	12.9	13.6