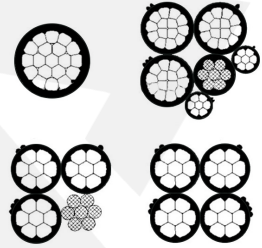


## AERIAL BUNDLED CABLES (ABC) Acc. to IEC 60502



### TECHNICAL DATA

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

### CONSTRUCTION

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

### 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.

### IEC 60502 & TNB SPECIFICATION 0.6/1(1.2)kV

PHASE CONDUCTOR								MESSENGER WIRE						COMPLETED CABLE		
NOMINAL CROSS-SECTIONAL AREA	NUMBER OF CORES	MINIMUM NUMBER OF WIRES	NOMINAL INSULATION THICKNESS	DIAMETER OF INSULATED CORE	MAX. D.C. RESISTANCE AT 20°C	CURRENT RATING AT STILL WIND A.T. : 30°C C.T. : 75°C	MAX. VOLTAGE DROP	NOMINAL CROSS-SECTIONAL AREA	MINIMUM NUMBER OF WIRES	NOMINAL INSULATION THICKNESS	DIAMETER OF INSULATED CORE	MAX. D.C. RESISTANCE AT 20°C	CALCULATED BREAKING LOAD	APPROX. OVERALL DIAMETER	APPROX. WEIGHT OF CABLE	PACKING LENGTH
mm <sup>2</sup>			mm	mm	Ω/km	A	Mv/A/m	mm <sup>2</sup>		mm	mm	Ω/km	Kn	mm	kg/km	m/drum
16	1	6	1.0	6.8	1.91	61	4.67	25	6	1.2	8.5	1.312	6.4	15.3	160	1,000
16	3	6	1.0	6.8	1.91	61	4.05	25	6	1.2	8.5	1.312	6.4	19.0	290	1,000
25	3	6	1.2	8.5	1.20	84	2.54	25	6	1.2	8.5	1.312	6.4	23.2	400	1,000
35	3	6	1.2	9.5	0.868	104	1.84	25	6	1.2	8.5	1.312	6.4	25.6	500	1,000
50	3	6	1.4	11.2	0.641	129	1.36	35	6	1.2	9.5	0.943	8.9	30.0	680	1,000
70	3	12	1.4	13.0	0.443	167	0.95	50	6	1.4	11.2	0.693	12.1	34.9	920	1,000
95	3	15	1.6	15.1	0.320	209	0.69	70	12	1.4	13.1	0.469	18.0	40.6	1,270	500
120	3	15	1.6	16.6	0.253	246	0.55	70	12	1.4	13.1	0.469	18.0	44.1	1,510	500
150	3	30	1.8	18.4	0.206	283	0.46	95	15	1.6	15.1	0.349	24.2	49.2	1,870	500
185	3	30	2.0	20.6	0.164	332	0.37	120	15	1.6	16.6	0.273	30.8	54.9	2,340	500

### IEC 60502 & DES/LV/ABC 0.6/1(1.2)kV

PHASE CONDUCTOR								NEUTRAL CONDUCTOR						COMPLETED CABLE		
NOMINAL CROSS-SECTIONAL AREA	NUMBER OF CORES	MINIMUM NUMBER OF WIRES	NOMINAL INSULATION THICKNESS	DIAMETER OF INSULATED CORE	MAX. D.C. RESISTANCE AT 20°C	MIN. BREAKING LOAD	CURRENT RATING AT STILL WIND A.T. : 30°C C.T. : 75°C	NOMINAL CROSS-SECTIONAL AREA	MINIMUM NUMBER OF WIRES	NOMINAL INSULATION THICKNESS	DIAMETER OF INSULATED CORE	MAX. D.C. RESISTANCE AT 20°C	MIN. BREAKING LOAD	APPROX. OVERALL DIAMETER	APPROX. WEIGHT OF CABLE	PACKING LENGTH
mm <sup>2</sup>			mm	mm	Ω/km	kN	A	mm <sup>2</sup>		mm	mm	Ω/km	Kn	mm	kg/km	m/drum
25	3	6	1.4	8.9	1.20	3.5	84	25	6	1.4	8.9	1.2	3.5	21.5	420	1,000
35	3	6	1.4	9.9	0.868	4.9	104	35	6	1.4	9.9	0.868	4.9	23.9	550	1,000