

# ABC ( Aerial Bundled Cable)

## Al/SC/ XLPE/ SC/ SCT/ CWS/ PVC/ HDPE- 18/30 (36) kV Cable

### CABLE STANDARDS

IEC 60502-2 , ISIRI 3569-2 , IEC 60228, IEC 60332-1-2



### APPLICATION

MV ABC cables or Aerial bundled cables, also known as aerial bundled conductors, are several phase conductors that are tightly bundled together and insulated with protective conductor . The common application of these .ABC cables is for use in overhead power lines

### CONSTRUCTION

#### Conductor

Class 2 stranded aluminum conductor

#### Inner Semi-Conductive Layer

Semi-conductive material

#### Insulation

XLPE (Cross-Linked Polyethylene)

#### Outer Semi-Conductive Layer

Semi-conductive material

#### Screen

Copper wires with copper tape

#### Sheath

HDPE ( High Density Poly Ethylene )

#### protective conductor

Steel (Galvanized)

#### Insulation for protective conductor

PE (Polyethylene)

### CHARACTERISTICS

#### Voltage Rating (U<sub>0</sub>,U) (Um)

18/30 (36) kV

#### Test Voltage

42 KV

#### Temperature Rating

-20°C to +90°C

#### Short Circuit Temperature

+250°C

#### Minimum Bending Radius

12 x Overall Diameter for Multi Core

#### Sheath Color

Black

#### Core identification

Phase 1 : Print No. 1

Phase 2 : Print No. 2

Phase 3 : Print No. 3

protective conductor : without Print No.

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#### Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short- circuit Current  KA 1.sec Approx	CURRENT CARRYING CAPACITY  Amps Approx	Capacitance  μf.km Approx	Reactance  Ω.km Approx	OVERALL DIAMETER Mm Approx	WEIGHT  kg.km Approx
	Conductor mm <sup>2</sup>	protective conductor mm <sup>2</sup>							
3	(1x35/16)	43	0.868	3.4	151	0.21	0.21	69.7	3167
3	(1x50/16)	60	0.641	4.9	181	0.23	0.20	71.7	3508
3	(1x70/16)	60	0.443	6.8	226	0.27	0.19	75.8	3869
3	(1x95/16)	60	0.320	9.2	275	0.31	0.18	79.5	4258
3	(1x120/16)	60	0.253	11.6	317	0.34	0.18	83.1	4644
3	(1x150/25)	60	0.206	14.5	359	0.37	0.17	87.1	5517
3	(1x185/25)	88	0.164	17.8	412	0.40	0.17	90.9	6002