

# ABC ( Aerial Bundled Cable)

## AL/XLPE- 0.6/1 kV Cable

### CABLE STANDARDS

HD 626 , IEC 60228



### APPLICATION

Aerial Bundled Conductor cables can be used to replace bare conductor cables in overhead distribution systems. It is ideal for use in urban areas with congested power distribution and narrow lanes and by-lanes. ... There are many types of abc cable, but their application is the same.

### CONSTRUCTION

#### Conductor

Class 2 stranded Aluminum conductors

#### neutral & protective conductor

Class 2 stranded Aluminium Alloy conductors

#### Insulation

XLPE (Cross-linked polyethylene)

#### protective conductor

Steel (Galvanized)

### CHARACTERISTICS

#### Voltage Rating ( $U_0/U$ ) (Um)

0.6/1 (1.2) kV

#### Test Voltage

6 Kv DC

#### Temperature Rating

-20°C to +90°C

#### Short Circuit Temperature

+250°C

#### Minimum Bending Radius

12 x Overall Diameter for Multi Core

#### Color

Black

#### Core identification

Phase 1 : 1 ribs

Phase 2 : 2 ribs

Phase 3 : 3 ribs

neutral : N ribs

public lighting : without ribs

protective conductor : without ribs

neutral & protective conductor : N ribs

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### Technical Specifications

Construction					Max DC Conductor Resistance at 20°C (Ω.km)	Short-circuit Current (KA) 1.sec Approx	CURRENT CARRYING CAPACITY (Amps) Approx	Voltage Drop (V/A/Km) Approx	Overall Diameter (mm) Approx	WEIGHT (Kg.Km) Approx
Phase	neutral	public lighting	protective conductor	Neutral & protective conductor M & N						
A	N	L	M	M & N						
1x16	16	-	-	-	1.91	1.6	93	3.98	14.6	139
1x25	25	-	-	-	1.20	2.5	122	2.54	17.9	203
1x16	-	-	-	16	1.91	1.6	93	3.98	14.9	141
1x25	-	-	-	25	1.20	2.5	122	2.54	18.1	209
1x16	-	16	-	35	1.91	1.6	93	3.98	18.3	291
1x25	-	16	-	35	1.20	2.5	122	2.54	19.5	323
1x35	-	16	-	50	0.868	3.4	138	1.65	21.9	426
1x16	16	-	16	-	1.91	1.6	93	3.98	15.7	274
1x25	25	-	16	-	1.20	2.5	122	2.54	18.0	338
1x25	25	16	16	-	1.20	2.5	122	2.54	19.6	412
1x35	35	16	25	-	0.868	3.4	138	1.65	22.0	541
3x35	-	16	-	50	0.868	3.4	138	1.65	27.5	698
3x50	-	16	-	50	0.641	4.9	168	1.27	29.2	801
3x70	-	16	-	70	0.443	6.8	213	0.87	34.0	1065
3x70	-	25	-	70	0.443	6.8	213	0.87	34.0	1096
3x95	-	25	-	70	0.320	9.2	258	0.67	37.2	1324
3x120	-	25	-	70	0.253	11.6	300	0.55	40.0	1541
3x25	25	16	16	-	1.20	2.5	122	2.54	23.3	607
3x35	35	25	25	-	0.868	3.4	138	1.65	27.3	846
3x50	50	25	25	-	0.641	4.9	168	1.27	29.3	982
3x70	70	25	25	-	0.443	6.8	216	0.87	33.9	1257
3x95	95	25	25	-	0.320	9.2	258	0.67	37.6	1562
3x120	120	25	25	-	0.253	11.6	300	0.55	40.8	1849