

600v



(a) Description

- They are composed of one or more insulated conductors and one neutral (bare or insulated) conductor. They are required as two (Duplex) or three (Triplex) or four (Quadruplex) conductors, XLPE with 2.5 % Carbon black insulated.
- Cables are produced according to IEC 1-60502, BS 50182 & IEC60228.

(b) Application

- They are used for secondary over head lines (in circuits not-exceeding 600 volts phase to phase) on poles or as feeders to residential premises.

(c) Technical data

Relevant Standard:	BS 50182, IEC 1-60502 & IEC60228.
Conductor :	Hard Drawn Aluminium.
Insulation :	Cross Linked Polyethylene Compound (XLPE)+ 2.5 % Carbon Black.
Temperature Range :	15- °C up to + 90 °C during operation.
Packing Condition :	On non-returnable wooden drum.

Overhead Transmission Lines

(d) Product Data

Phase		Max. DC. resistance at 20 °C	Approx. Overall Diameter	Approx. Weight
Nominal Cross Sectional Area	Insulation thickness			
mm ²	mm	Ω/km	mm	kg/km
Two conductors (Duplex)				
16	1.2	1.910	12.9	115
25	1.2	1.200	15.3	168
35	1.2	0.868	17.7	229
50	1.5	0.641	21.4	322
70	1.5	0.443	24.4	428
95	1.5	0.320	28.4	626
120	1.7	0.253	31.8	734
Three conductors (Triplex)				
16	1.2	1.910	15.6	185
25	1.2	1.200	18.0	267
35	1.2	0.868	20.4	364
50	1.5	0.641	25.2	519
70	1.5	0.443	28.2	674
95	1.5	0.320	32.2	928
120	1.7	0.253	36.6	1245
Four conductors (Quadruplex)				
16	1.2	1.910	19.0	256
25	1.2	1.200	22.0	367
35	1.2	0.868	24.9	499
50	1.5	0.641	30.3	710
70	1.5	0.443	33.9	920
95	1.5	0.320	38.8	1263
120	1.7	0.253	43.5	1556

The above data is approximate and subjected to manufacturing tolerance.

