

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, DIN 48201 & 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:	IEC 1-60502, DIN 201 48, IEC60228.
Conductor :	Plain Hard Drawn Copper.
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			
<i>mm²</i>	<i>mm</i>	<i>Ω/km</i>	<i>mm</i>	<i>kg/km</i>
Two conductors (Duplex)				
10	1.2	1.83	10.7	198
16	1.2	1.15	12.8	307
25	1.2	0.727	15.3	469
35	1.2	0.524	17.6	650
50	1.5	0.387	21.2	898
70	1.5	0.268	24.5	1247
95	1.5	0.193	28.3	1736
120	1.7	0.153	31.8	2170
Three conductors (Triplex)				
10	1.2	1.83	13.7	305
16	1.2	1.15	15.8	471
25	1.2	0.727	18.5	719
35	1.2	0.524	20.7	991
50	1.5	0.387	25	1357
70	1.5	0.268	28.7	1900
95	1.5	0.193	32.4	2631
120	1.7	0.153	36.6	3285
Four conductors (Quadruplex)				
10	1.2	1.83	16.3	413
16	1.2	1.15	18.8	634
25	1.2	0.727	22	970
35	1.2	0.524	24.6	1332
50	1.5	0.387	29.8	1821
70	1.5	0.268	34.2	2553
95	1.5	0.193	38.6	3526
120	1.7	0.153	43.5	4579

The above data is approximate and subjected to manufacturing tolerance.