

0.6/1 (1.2) kV



(a) Description

- Multicore cables of Stranded Aluminium conductors are insulated with a XLPE compound, assembled together and covered with an overall jacket of a PVC compound.
- Cables are produced according to IEC 60502.

(b) Application

- For outdoor and indoor installations in damp and wet locations. They are normally used for power distribution in urban networks, in industrial plants, as well as in thermopower and hydropower Stations.

(c) Technical data

Relevant Standard:	IEC 60502 Part 1.
Conductor :	Aluminium, Class 2 according to IEC 60228.
Insulation :	Cross Linked Polyethylene Compound (XLPE).
Colour Code :	Two cores : Red and Black. Three cores : Red, Yellow and Blue. Four cores : Red, Yellow, Blue and Black.
Laying up :	Cores twisted together with filling elements if necessary.
Wrapping :	At least 1 layer of Polypropylene Tape.
Outer Jacket :	PVC.
Temperature Range :	15- °C up to + 90 °C during operation.
Minimum Bending Radius:	10 x cable outer diameter (ø).
Packing Condition :	On non-returnable wooden drum.



Low Voltage Power Cables

(d) Product Data

Nominal Cross Sectional Area	Max. Conductor Resistance		Current Rating			Approx. Overall Diameter	Approx. Weight
	DC at 20 °C	"AC at 90 °C"	"Direct in Ground"	Laid in Ducts	"Direct in Free Air"		
mm ²	Ω/km	Ω/km	A	A	A	mm	kg/km

Two Core Cables

16 r	1.9100	2.4500	81	63	80	15.8	310
25 r	1.2000	1.5400	106	82	107	18.8	450
35 r	0.8680	1.1130	140	116	132	21.0	565

Three Core Cables

16 r	1.9100	2.4500	74	57	68	17.3	330
25 r	1.2000	1.5400	98	77	92	20.5	460
35 r	0.8680	1.1130	131	104	116	22.9	580

Four Core Cables

16 r	1.9100	2.4500	74	57	68	18.9	405
25 r	1.2000	1.5400	98	77	92	22.5	585
35 r	0.8680	1.1130	131	104	121	25.2	745
50 s	0.6410	0.8220	158	120	150	26.5	905
70 s	0.4430	0.5690	191	153	185	30.8	1260
95 s	0.3200	0.4110	229	180	226	33.5	1565
120 s	0.2530	0.3250	256	207	260	37.6	1950
150 s	0.2060	0.2650	289	234	306	42.1	2405
185 s	0.1640	0.2120	316	262	347	47.1	2930
240 s	0.1250	0.1630	371	305	416	52.9	3725
300 s	0.1000	0.1310	425	354	491	58.5	4625
400 s	0.0778	0.1025	502	413	579	66.9	5975

Four Core Cables with Reduced Neutral

35 r + 16 r	0.8680/1.9100	1.1130/2.4500	131	104	121	23.6	670
50 s + 25 r	0.6410/1.2000	0.8220/1.5400	158	120	150	25.3	830
70 s + 35 r	0.4430/0.8680	0.5690/1.1130	191	153	185	29.1	1120
95 s + 50 s	0.3200/0.6410	0.4110/0.8220	229	180	226	33	1415
120 s + 70 s	0.2530/0.4430	0.3250/0.5690	256	207	260	35.9	1770
150 s + 70 s	0.2060/0.4430	0.2650/0.5690	289	234	306	39.7	2120
185 s + 95 s	0.1640/0.3200	0.2120/0.4110	316	262	347	44.6	2590
240 s + 120 s	0.1250/0.2530	0.1630/0.3250	371	305	416	49.9	3260
300 s + 150 s	0.1000/0.2060	0.1310/0.2650	425	354	491	55.2	4065
400 s + 240 s	0.0778/0.1250	0.1025/0.1630	502	413	579	62.8	5255

The above data is approximate and subjected to manufacturing tolerance.

r : round, Stranded
s : Sector, Stranded

