

0.6/1 (1.2) kV



(a) Description

- Multicore cables of stranded Copper 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 :	Plain annealed Copper, 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 (∅).
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							
10 r	1.8300	2.3300	89	75	87	13.8	360
16 r	1.1500	1.4700	116	90	116	15.8	505
25 r	0.7270	0.9270	152	117	153	18.8	750
35 r	0.5240	0.6690	181	146	183	21.0	980
Three Core Cables							
10 r	1.8300	2.3300	82	65	75	15.1	430
16 r	1.1500	1.4700	106	82	98	17.3	620
25 r	0.7270	0.9270	140	111	132	20.5	910
35 r	0.5240	0.6690	169	131	160	22.9	1205
Four Core Cables							
10 r	1.8300	2.3300	82	65	75	16.4	565
16 r	1.1500	1.4700	106	82	98	18.9	795
25 r	0.7270	0.9270	140	111	132	22.5	1185
35 r	0.5240	0.6690	169	131	160	25.2	1575
50 s	0.3870	0.4940	202	158	197	27.1	2060
70 s	0.2680	0.3430	240	196	248	31.4	2905
95 s	0.1930	0.2480	289	229	295	35.1	3910
120 s	0.1530	0.1970	332	267	341	39.2	4915
150 s	0.1240	0.1600	365	300	387	43.7	6035
185 s	0.0991	0.1290	409	338	444	48.7	7540
240 s	0.0754	0.0990	474	398	531	54.5	9785
300 s	0.0601	0.0810	534	441	618	60.1	12190
400 s	0.0470	0.0642	631	519	726	66.9	15540
Four Core Cables with Reduced Neutral							
35 r + 16 r	0.5240/1.1500	0.6690/1.4700	169	131	156	23.6	1390
50 s + 25 r	0.3870/0.7270	0.4940/0.9270	202	158	197	25.9	1835
70 s + 35 r	0.2680/0.5240	0.3430/0.6690	240	196	237	29.7	2540
95 s + 50 s	0.1930/0.3870	0.2480/0.4940	289	229	295	33.6	3435
120 s + 70 s	0.1530/0.2680	0.1970/0.3430	332	267	341	37.5	4400
150 s + 70 s	0.1240/0.2680	0.1600/0.3430	365	300	387	41.3	5255
185 s + 95 s	0.0991/0.1930	0.1290/0.2480	409	338	444	46.2	6640
240 s + 120 s	0.0754/0.1530	0.0990/0.1970	474	398	531	51.5	8555
300 s + 150 s	0.0601/0.1240	0.0810/0.1600	534	441	618	56.8	10640
400 s + 240 s	0.0470/0.0754	0.0642/0.099	631	519	726	62.8	14436

The above data is approximate and subjected to manufacturing tolerance.

r : round, Stranded
s : Sector, Stranded

