

Multicore Cables, with Stranded Aluminium Conductors, XLPE Insulated, Armored by Steel Tape and PVC Sheathed

0.6/1 (1.2) kV



(a) Description

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

(b) Application

- For outdoor installations in damp and wet locations where mechanical damages are expected to occur.

(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.
Bedding :	PVC.
Aarmor :	Double Steel Tape Armor.
Outer Jacket :	PVC.
Temperature Range :	15- °C up to + 90 °C during operation.
Minimum Bending Radius :	15 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

25 r	1.2000	1.5400	105	81	106	20.8	630
35 r	0.8680	1.1130	141	114	139	23.0	770

Three Core Cables

16 r	1.9100	2.4500	73	57	68	19.3	495
25 r	1.2000	1.5400	97	76	92	22.5	650
35 r	0.8680	1.1130	131	104	121	24.9	795

Four Core Cables

16 r	1.9100	2.4500	73	57	68	20.9	585
25 r	1.2000	1.5400	97	76	92	24.5	780
35 r	0.8680	1.1130	131	104	121	27.2	940
50 s	0.6410	0.8220	158	120	150	30.1	1300
70 s	0.4430	0.5690	191	153	185	34.6	1750
95 s	0.3200	0.4110	229	180	226	39.7	2540
120 s	0.2520	0.3250	256	207	260	43.8	3020
150 s	0.2060	0.2650	289	234	306	48.7	3670
185 s	0.1640	0.2120	316	262	347	53.7	4380
240 s	0.1250	0.1630	371	305	416	60	4430
300 s	0.1000	0.1310	425	354	491	65.5	6510
400 s	0.0778	0.1025	494	411	567	71.7	7950

Four Core Cables with Reduced Neutral

35 r + 16 r	0.8680/1.9100	1.1130/2.4500	131	104	121	25.6	890
50 s + 25 r	0.6410/1.2000	0.8220/1.5400	158	120	150	28.7	1200
70 s + 35 r	0.4430/0.8680	0.5690/1.1130	191	153	185	33.1	1550
95 s + 50 s	0.3200/0.6410	0.4110/0.8220	229	180	226	38.0	1970
120 s + 70 s	0.2530/0.4430	0.3250/0.5690	256	207	260	42.1	2710
150 s + 70 s	0.2060/0.4430	0.2650/0.5690	289	234	306	46.3	3290
185 s + 95 s	0.1640/0.3200	0.2120/0.4110	316	262	347	51.2	3980
240 s + 120 s	0.1250/0.2530	0.1630/0.3250	371	305	416	57.1	4910
300 s + 150 s	0.1000/0.2060	0.1310/0.2650	425	354	491	62.2	5920
400 s + 185 s	0.0778/0.1250	0.1025/0.1630	494	411	567	67.6	7110

The above data is approximate and subjected to manufacturing tolerance.

r : round, Stranded
s : Sector, Stranded

