

XLPE-INSULATED CABLE

600/1000V, XLPE INSULATED, PVC-SHEATHED UNARMoured CABLES

APPLICATION

Power Cables for electricity supply are installed in open air, underground, in cable ducts, outdoor and indoors, power stations, for industry and distribution boards as well as in subscriber networks where mechanical damages are not to be expected. The cables are suitable for continuous operation at a maximum conductor temperature of 90°C.

Conductor :	Circular stranded, circular compact stranded or sector shaped stranded plain annealed wire acc. To IEC 60228 class 2	Voltage :	600/1000V
Insulation :	XLPE (Cross-linked Polyethylene)	Temperature :	Maximum 90°C
Identification of cores:	1 core – Red or Black 2 cores – Brown, Blue or Red, black 3 cores – Brown, Black, Grey or Red, Yellow , Blue 4 cores – Brown, Black, Grey, Blue or Red, Yellow, Blue, Black 5 core and above – (number) 1,2,3,4,5,6..... and the number shall be black printed on white cores	Main Specification :	MS 2104, MS 2106, IEC 60502-1
Laying Up:	Cores stranded together. Where necessary, binder tapes and non-hygroscopic fillers may be applied	Testing Voltage :	3500V
Sheath :	PVC (Polyvinyl Chloride) compound type ST2	Min. Bending Radius :	15 × Overall Diameter
Colour:	Black	Special Properties Upon Request :	Anti-Termite sheath Anti-Rodent sheath UV-Resistant sheath Flame Retardant sheath

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UNARMoured CABLES

transmission of reliability & brightness

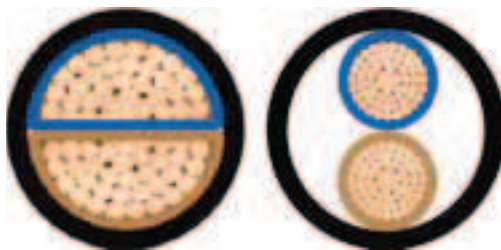


1 core
CU/XLPE/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	kg/km
1	1.5	7	0.7	1.4	6.0	50
1	2.5	7	0.7	1.4	6.5	60
1	4	7	0.7	1.4	7.0	80
1	6	7	0.7	1.4	7.5	105
1	10	7	0.7	1.4	8.5	150
1	16	7	0.7	1.4	9.7	210
1	25	7	0.9	1.4	11.3	310
1	35	19	0.9	1.4	12.5	415
1	50	19	1.0	1.4	13.8	540
1	70	19	1.1	1.4	15.7	750
1	95	19	1.1	1.5	18.0	1025
1	120	37	1.2	1.5	19.6	1265
1	150	37	1.4	1.6	22.0	1575
1	185	37	1.6	1.6	24.0	1885
1	240	61	1.7	1.7	27.0	2560
1	300	61	1.8	1.8	30.0	3175
1	400	61	2.0	1.9	33.5	4050
1	500	61	2.2	2.0	37.5	5090
1	630	127	2.4	2.2	42.2	6550
1	800	127	2.6	2.3	47.0	8290
1	1000	127	2.8	2.4	52.0	10455

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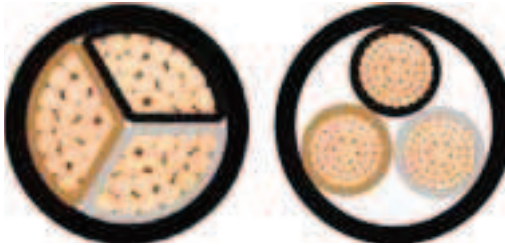
2 cores
CU/XLPE/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	kg/km
2	1.5	7	0.7	1.8	9.8	125
2	2.5	7	0.7	1.8	10.6	160
2	4	7	0.7	1.8	11.6	205
2	6	7	0.7	1.8	13.3	260
2	10	7	0.7	1.8	14.5	375
2	16	7	0.7	1.8	16.5	515
2	25	7	0.9	1.8	17.6	680
2	35	19	0.9	1.8	18.5	850
2	50	19	1.0	1.8	19.9	1125
2	70	19	1.1	1.8	21.0	1580
2	95	19	1.1	1.9	24.5	2125
2	120	37	1.2	2.0	29.0	2665
2	150	37	1.4	2.2	31.5	3250
2	185	37	1.6	2.3	34.9	4080
2	240	61	1.7	2.5	39.1	5130
2	300	61	1.8	2.6	43.1	6310
2	400	61	2.0	2.9	48.3	8130

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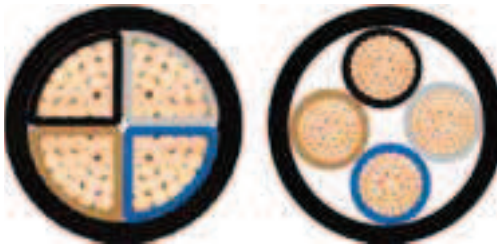


3 cores
CU/XLPE/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	kg/km
3	1.5	7	0.7	1.8	10.6	145
3	2.5	7	0.7	1.8	11.6	185
3	4	7	0.7	1.8	12.8	250
3	6	7	0.7	1.8	14.0	310
3	10	7	0.7	1.8	16.0	460
3	16	7	0.7	1.8	17.8	640
3	25	7	0.9	1.8	22.0	920
3	35	19	0.9	1.8	21.0	1220
3	50	19	1.0	1.8	24.0	1585
3	70	19	1.1	1.9	27.5	2250
3	95	19	1.1	2.0	31.0	3075
3	120	37	1.2	2.1	34.0	3885
3	150	37	1.4	2.3	38.0	4750
3	185	37	1.6	2.4	42.0	5925
3	240	61	1.7	2.6	47.0	7840
3	300	61	1.8	2.8	51.0	9760
3	400	61	2.0	3.0	57.5	11985

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4 cores
CU/XLPE/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	kg/km
4	1.5	7	0.7	1.8	11.0	170
4	2.5	7	0.7	1.8	11.8	225
4	4	7	0.7	1.8	13.0	305
4	6	7	0.7	1.8	15.0	385
4	10	7	0.7	1.8	17.0	580
4	16	7	0.7	1.8	19.5	855
4	25	7	0.9	1.8	22.9	1300
4	35 (S)	19	0.9	1.8	24.0	1635
4	50 (S)	19	1.0	1.9	26.5	2175
4	70 (S)	19	1.1	2.0	30.0	3070
4	95 (S)	19	1.1	2.1	34.5	4150
4	120 (S)	37	1.2	2.3	38.5	5210
4	150 (S)	37	1.4	2.4	42.0	6405
4	185 (S)	37	1.6	2.6	47.9	8010
4	240 (S)	61	1.7	2.8	54.0	10500
4	300 (S)	61	1.8	3.0	59.0	13070
4	400 (S)	61	2.0	3.3	67.0	16120

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transmission of reliability & brightness

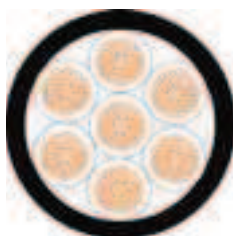


5 cores
CU/XLPE/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	kg/km
5	1.5	7	0.7	1.8	11.7	200
5	2.5	7	0.7	1.8	12.9	266
5	4	7	0.7	1.8	14.3	362
5	6	7	0.7	1.8	15.9	484
5	10	7	0.7	1.8	18.4	720
5	16	7	0.7	1.8	21.2	1060
5	25	7	0.9	1.8	25.8	1604
5	35	19	0.9	1.9	29.4	2169
5	50	19	1.0	2.0	33.5	3018
5	70	19	1.1	2.2	39.3	4172
5	95	19	1.1	2.4	44.8	5560
5	120	37	1.2	2.6	50.0	6979
5	150	37	1.4	2.8	55.6	8701
5	185	37	1.6	3.0	62.3	10741
5	240	61	1.7	3.2	70.4	13827

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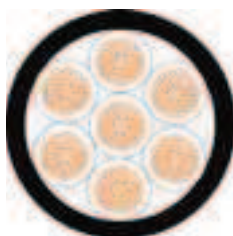


Multi-cores
CU/XLPE/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	1.5	7	0.7	1.8	12.6	231
7	1.5	7	0.7	1.8	12.6	247
8	1.5	7	0.7	1.8	14.0	287
9	1.5	7	0.7	1.8	15.0	323
10	1.5	7	0.7	1.8	15.6	351
11	1.5	7	0.7	1.8	15.6	367
12	1.5	7	0.7	1.8	16.1	393
13	1.5	7	0.7	1.8	16.8	424
14	1.5	7	0.7	1.8	16.8	440
15	1.5	7	0.7	1.8	17.7	475
16	1.5	7	0.7	1.8	17.7	491
17	1.5	7	0.7	1.8	18.6	527
18	1.5	7	0.7	1.8	18.6	543
19	1.5	7	0.7	1.8	18.6	559
20	1.5	7	0.7	1.8	19.6	598
21	1.5	7	0.7	1.8	19.6	614
22	1.5	7	0.7	1.8	20.6	654
23	1.5	7	0.7	1.8	20.6	670
24	1.5	7	0.7	1.8	21.6	711
25	1.5	7	0.7	1.8	21.6	727

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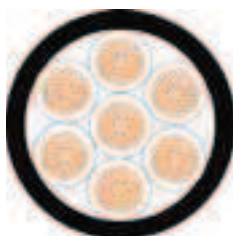


Multi-cores
CU/XLPE/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
26	1.5	7	0.7	1.8	21.6	743
27	1.5	7	0.7	1.8	22.0	770
28	1.5	7	0.7	1.8	22.8	807
29	1.5	7	0.7	1.8	22.8	823
30	1.5	7	0.7	1.8	22.8	839
31	1.5	7	0.7	1.8	23.7	878
32	1.5	7	0.7	1.8	23.7	894
33	1.5	7	0.7	1.8	23.7	910
34	1.5	7	0.7	1.8	24.6	951
35	1.5	7	0.7	1.8	24.6	967
36	1.5	7	0.7	1.8	24.6	983
37	1.5	7	0.7	1.8	24.6	999
38	1.5	7	0.7	1.8	25.6	1043
39	1.5	7	0.7	1.8	25.6	1059
40	1.5	7	0.7	1.8	25.6	1075
42	1.5	7	0.7	1.8	26.6	1137
44	1.5	7	0.7	1.8	27.6	1204
46	1.5	7	0.7	1.8	27.6	1236
48	1.5	7	0.7	1.9	28.1	1285
50	1.5	7	0.7	1.9	29.0	1345

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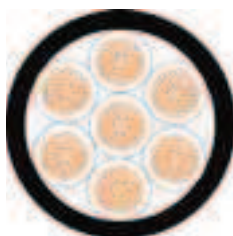


Multi-cores
CU/XLPE/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	2.5	7	0.7	1.8	13.9	310
7	2.5	7	0.7	1.8	13.9	336
8	2.5	7	0.7	1.8	15.4	390
9	2.5	7	0.7	1.8	16.6	440
10	2.5	7	0.7	1.8	17.3	480
11	2.5	7	0.7	1.8	17.3	505
12	2.5	7	0.7	1.8	17.8	543
13	2.5	7	0.7	1.8	18.7	587
14	2.5	7	0.7	1.8	18.7	613
15	2.5	7	0.7	1.8	19.7	661
16	2.5	7	0.7	1.8	19.7	686
17	2.5	7	0.7	1.8	20.7	736
18	2.5	7	0.7	1.8	20.7	762
19	2.5	7	0.7	1.8	20.7	787
20	2.5	7	0.7	1.8	21.8	841
21	2.5	7	0.7	1.8	21.8	866
22	2.5	7	0.7	1.8	23.0	922
23	2.5	7	0.7	1.8	23.0	947
24	2.5	7	0.7	1.8	24.1	1003
25	2.5	7	0.7	1.8	24.1	1029

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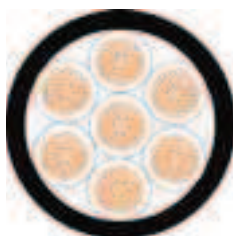


Multi-cores
CU/XLPE/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
26	2.5	7	0.7	1.8	24.1	1054
27	2.5	7	0.7	1.8	24.6	1094
28	2.5	7	0.7	1.8	25.5	1144
29	2.5	7	0.7	1.8	25.5	1170
30	2.5	7	0.7	1.8	25.5	1195
31	2.5	7	0.7	1.8	26.5	1250
32	2.5	7	0.7	1.8	26.5	1275
33	2.5	7	0.7	1.8	26.5	1301
34	2.5	7	0.7	1.8	27.6	1362
35	2.5	7	0.7	1.8	27.6	1388
36	2.5	7	0.7	1.8	27.6	1413
37	2.5	7	0.7	1.8	27.6	1439
38	2.5	7	0.7	1.9	28.8	1505
39	2.5	7	0.7	1.9	28.8	1530
40	2.5	7	0.7	1.9	28.8	1556
42	2.5	7	0.7	1.9	30.0	1651
44	2.5	7	0.7	2.0	31.2	1746
46	2.5	7	0.7	2.0	31.2	1796
48	2.5	7	0.7	2.0	31.8	1868
50	2.5	7	0.7	2.0	32.7	1955

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No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	4	7	0.7	1.8	15.5	425
7	4	7	0.7	1.8	15.5	464
8	4	7	0.7	1.8	17.3	540
9	4	7	0.7	1.8	18.7	610
10	4	7	0.7	1.8	19.5	667
11	4	7	0.7	1.8	19.5	707
12	4	7	0.7	1.8	20.1	761
13	4	7	0.7	1.8	21.1	825
14	4	7	0.7	1.8	21.1	864
15	4	7	0.7	1.8	22.2	932
16	4	7	0.7	1.8	22.2	972
17	4	7	0.7	1.8	23.4	1043
18	4	7	0.7	1.8	23.4	1082
19	4	7	0.7	1.8	23.4	1121
20	4	7	0.7	1.8	24.7	1197
21	4	7	0.7	1.8	24.7	1236
22	4	7	0.7	1.8	26.0	1314
23	4	7	0.7	1.8	26.0	1353
24	4	7	0.7	1.8	27.4	1436
25	4	7	0.7	1.8	27.4	1475

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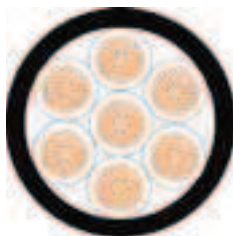
transmission of reliability & brightness



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No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
26	4	7	0.7	1.8	27.4	1515
27	4	7	0.7	1.9	28.0	1575
28	4	7	0.7	1.9	29.1	1652
29	4	7	0.7	1.9	29.1	1692
30	4	7	0.7	1.9	29.1	1731
31	4	7	0.7	1.9	30.4	1814
32	4	7	0.7	1.9	30.4	1854
33	4	7	0.7	1.9	30.4	1893
34	4	7	0.7	2.0	31.6	1979
35	4	7	0.7	2.0	31.6	2019
36	4	7	0.7	2.0	31.6	2058
37	4	7	0.7	2.0	31.6	2098
38	4	7	0.7	2.0	33.0	2191
39	4	7	0.7	2.0	33.0	2230
40	4	7	0.7	2.0	33.0	2270
42	4	7	0.7	2.1	34.5	2406
44	4	7	0.7	2.1	35.9	2543
46	4	7	0.7	2.1	35.9	2622
48	4	7	0.7	2.1	36.5	2727
50	4	7	0.7	2.2	37.6	2854

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No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	6	7	0.7	1.8	17.2	570
7	6	7	0.7	1.8	17.2	628
8	6	7	0.7	1.8	19.2	731
9	6	7	0.7	1.8	20.8	827
10	6	7	0.7	1.8	21.7	907
6	10	7	0.7	1.8	20.0	852
7	10	7	0.7	1.8	20.0	947
8	10	7	0.7	1.8	22.5	1102
9	10	7	0.7	1.8	24.4	1248
10	10	7	0.7	1.8	25.5	1373