

XLPE-INSULATED CABLE 600/1000V, XLPE INSULATED, PVC-SHEATHED ARMoured CABLES

transmission of reliability & brightness



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:	Single core – Black or Natural 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 2105, MS 2107, IEC 60502-1
Laying Up:	Cores stranded together. Where necessary, binder tapes and non-hygroscopic fillers may be applied	Testing Voltage:	3500V
Bedding:	Extruded Black PVC (polyvinyl chloride) Compound or lapped PVC tapes	Min. Bending Radius:	20 x Overall Diameter
Colour:	Black	Special Properties Upon Request:	Anti-Termite sheath Anti-Rodent sheath UV-Resistant sheath Flame Retardant sheath
Armour:	Single Core – consist of a single layer of non-Magnetic material, such as aluminum wire Two core and above – consist of a single Layer of galvanized steel wires		
Sheath:	PVC (Polyvinyl Chloride) compound type ST2		
Colour:	Black		

XLPE-INSULATED CABLE

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

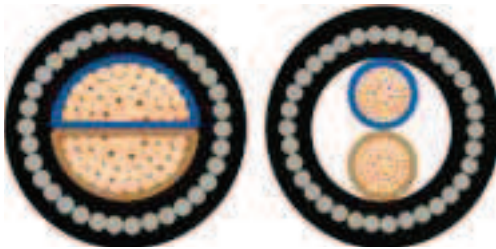


1 core
CU/XLPE/PVC/AWA/PVC

No. of cores	Nominal cross- sectional area of conductor	Number of wires	Thickness of insulation	Nom. Thick. of Bedding	Nom. Dia. of Armour Wire	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	mm	mm	kg/km
1	10	7	0.7	1.0	1.6	1.8	14.3	350
1	16	7	0.7	1.0	1.6	1.8	15.3	437
1	25	7	0.9	1.0	1.6	1.8	17.0	574
1	35	19	0.9	1.0	1.6	1.8	18.3	705
1	50	19	1.0	1.0	1.25	1.8	19.5	780
1	70	19	1.1	1.0	1.25	1.8	20.5	975
1	95	19	1.1	1.0	1.6	1.8	22.5	1270
1	120	37	1.2	1.0	1.6	1.8	24.5	1600
1	150	37	1.4	1.0	1.6	1.8	27.5	1910
1	185	37	1.6	1.0	1.6	1.8	30.5	2330
1	240	61	1.7	1.0	1.6	1.9	33.0	2985
1	300	61	1.8	1.0	1.6	1.9	36.0	3700
1	400	61	2.0	1.2	2.0	2.1	40.5	4790
1	500	61	2.2	1.2	2.0	2.2	44.5	5885
1	630	127	2.4	1.2	2.0	2.3	49.0	7480
1	800	127	2.6	1.4	2.5	2.5	55.5	9400
1	1000	127	2.8	1.4	2.5	2.7	61.0	11625

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

transmission of reliability & brightness



2 cores
CU/XLPE/PVC/SWA/PVC

No. of cores	Nominal cross- sectional area of conductor	Number of wires	Thickness of insulation	Nom. Thick. of Bedding	Nom. Dia. of Armour Wire	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	mm	mm	kg/km
2	1.5	7	0.7	1.0	0.9	1.8	13.5	340
2	2.5	7	0.7	1.0	0.9	1.8	14.4	390
2	4	7	0.7	1.0	0.9	1.8	15.4	460
2	6	7	0.7	1.0	0.9	1.8	17.0	535
2	10	7	0.7	1.0	1.25	1.8	19.5	800
2	16	7	0.7	1.0	1.25	1.8	21.0	865
2	25	7	0.9	1.0	1.6	1.8	22.5	1280
2	35	19	0.9	1.0	1.6	1.7	23.0	1525
2	50	19	1.0	1.0	1.6	1.8	26.0	1800
2	70	19	1.1	1.0	1.6	2.0	29.0	2455
2	95	19	1.1	1.2	2.0	2.1	32.3	3310
2	120	37	1.2	1.2	2.0	2.2	36.0	4010
2	150	37	1.4	1.2	2.0	2.3	39.5	4735
2	185	37	1.6	1.4	2.5	2.5	44.0	6120
2	240	61	1.7	1.4	2.5	2.7	48.0	7650
2	300	61	1.8	1.6	2.5	2.8	53.0	9120
2	400	61	2.0	1.6	2.5	3.1	58.0	11475

XLPE-INSULATED CABLE

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



3 cores
CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
3	1.5	7	0.7	1.0	0.9	1.8	14.3	370
3	2.5	7	0.7	1.0	0.9	1.8	15.0	435
3	4	7	0.7	1.0	0.9	1.8	16.1	520
3	6	7	0.7	1.0	0.9	1.8	18.0	610
3	10	7	0.7	1.0	1.25	1.8	20.0	910
3	16	7	0.7	1.0	1.25	1.8	22.0	1030
3	25	7	0.9	1.0	1.6	1.8	25.0	1650
3	35	19	0.9	1.0	1.6	1.8	26.0	2015
3	50	19	1.0	1.0	1.6	1.8	29.0	2500
3	70	19	1.1	1.2	2.0	2.0	34.0	3535
3	95	19	1.1	1.2	2.0	2.2	37.5	4550
3	120	37	1.2	1.2	2.0	2.3	40.0	5510
3	150	37	1.4	1.4	2.5	2.5	46.0	6990
3	185	37	1.6	1.4	2.5	2.6	49.0	8460
3	240	61	1.7	1.6	2.5	2.8	56.0	10610
3	300	61	1.8	1.6	2.5	3.0	60.0	12900
3	400	61	2.0	1.6	2.5	3.2	66.0	16520

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

transmission of reliability & brightness



4 cores
CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thick. of Bedding mm	Nom. Dia. of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
4	1.5	7	0.7	1.0	0.9	1.8	15.0	415
4	2.5	7	0.7	1.0	0.9	1.8	17.0	490
4	4	7	0.7	1.0	0.9	1.8	18.0	600
4	6	7	0.7	1.0	1.25	1.8	19.5	815
4	10	7	0.7	1.0	1.25	1.8	21.5	1070
4	16	7	0.7	1.0	1.6	1.8	24.5	1520
4	25	7	0.9	1.0	1.6	1.8	27.0	2035
4	35 (S)	19	0.9	1.0	1.6	1.9	29.0	2525
4	50 (S)	19	1.0	1.0	1.6	2.0	32.0	3170
4	70 (S)	19	1.1	1.2	2.0	2.2	37.5	4550
4	95 (S)	19	1.1	1.2	2.0	2.3	41.0	5800
4	120 (S)	37	1.2	1.4	2.5	2.5	46.0	7480
4	150 (S)	37	1.4	1.4	2.5	2.6	51.0	8925
4	185 (S)	37	1.6	1.4	2.5	2.8	56.0	10800
4	240 (S)	61	1.7	1.6	2.5	3.0	63.0	13800
4	300 (S)	61	1.8	1.6	2.5	3.2	68.0	16800
4	400 (S)	61	2.0	1.8	3.15	3.5	77.0	22230

XLPE-INSULATED CABLE

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



5 cores
CU/XLPE/PVC/SWA/PVC

No. of cores	Nominal cross- sectional area of conductor	Number of wires	Thickness of insulation	Nom. Thick. of Bedding	Nom. Dia. of Armour Wire	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	mm	mm	kg/km
5	1.5	7	0.7	1.0	1.25	1.8	16.2	565
5	2.5	7	0.7	1.0	1.25	1.8	17.4	665
5	4	7	0.7	1.0	1.25	1.8	18.8	804
5	6	7	0.7	1.0	1.25	1.8	20.4	972
5	10	7	0.7	1.0	1.60	1.8	23.6	1423
5	16	7	0.7	1.0	1.60	1.8	26.4	1867
5	25	7	0.9	1.0	1.60	2.0	31.4	2606
5	35	19	0.9	1.2	2.0	2.1	36.2	3611
5	50	19	1.0	1.2	2.0	2.3	40.4	4648
5	70	19	1.1	1.2	2.50	2.5	47.2	6492
5	95	19	1.1	1.4	2.50	2.7	53.2	8251
5	120	37	1.2	1.4	2.50	2.8	58.4	9962
5	150	37	1.4	1.6	2.50	3.0	64.4	12081
5	185	37	1.6	1.6	2.50	3.3	71.0	14500
5	240	61	1.7	1.8	3.15	3.6	81.0	19123

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

transmission of reliability & brightness



Multi-cores CU/XLPE/PVC/SWA/PVC

No. of cores	Nominal cross-sectional area of conductor	Number of wires	Thickness of insulation	Nom. Thickness of Bedding	Nom. Diameter of Armour Wire	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	mm	mm	kg/km
6	1.5	7	0.7	1.0	1.25	1.8	17.1	623
7	1.5	7	0.7	1.0	1.25	1.8	17.1	638
8	1.5	7	0.7	1.0	1.25	1.8	18.5	719
9	1.5	7	0.7	1.0	1.25	1.8	19.5	786
10	1.5	7	0.7	1.0	1.25	1.8	20.1	831
11	1.5	7	0.7	1.0	1.25	1.8	20.1	847
12	1.5	7	0.7	1.0	1.25	1.8	20.6	887
13	1.5	7	0.7	1.0	1.60	1.8	22.0	1071
14	1.5	7	0.7	1.0	1.60	1.8	22.0	1087
15	1.5	7	0.7	1.0	1.60	1.8	22.9	1153
16	1.5	7	0.7	1.0	1.60	1.8	22.9	1169
17	1.5	7	0.7	1.0	1.60	1.8	23.8	1238
18	1.5	7	0.7	1.0	1.60	1.8	23.8	1254
19	1.5	7	0.7	1.0	1.60	1.8	23.8	2369
20	1.5	7	0.7	1.0	1.60	1.8	24.8	1345
21	1.5	7	0.7	1.0	1.60	1.8	24.8	1361
22	1.5	7	0.7	1.0	1.60	1.8	25.8	1439
23	1.5	7	0.7	1.0	1.60	1.8	25.8	1455
24	1.5	7	0.7	1.0	1.60	1.8	26.8	1534
25	1.5	7	0.7	1.0	1.60	1.8	26.8	1549

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



Multi-cores
CU/XLPE/PVC/SWA/PVC

No. of cores	Nominal cross- sectional area of conductor	Number of wires	Thickness of insulation	Nom. Thickness of Bedding	Nom. Diameter of Armour Wire	Thickness of oversheath	Approx overall diameter	Approx net weight
no	mm ²	no	mm	mm	mm	mm	mm	kg/km
26	1.5	7	0.7	1.0	1.60	1.8	26.8	1565
27	1.5	7	0.7	1.0	1.60	1.8	27.3	1611
28	1.5	7	0.7	1.0	1.60	1.9	28.1	1680
29	1.5	7	0.7	1.0	1.60	1.9	28.1	1696
30	1.5	7	0.7	1.0	1.60	1.9	28.1	1712
31	1.5	7	0.7	1.0	1.60	1.9	29.1	1788
32	1.5	7	0.7	1.0	1.60	1.9	29.1	1804
33	1.5	7	0.7	1.0	1.60	1.9	29.1	1819
34	1.5	7	0.7	1.0	1.60	1.9	30.0	1899
35	1.5	7	0.7	1.0	1.60	1.9	30.0	1915
36	1.5	7	0.7	1.0	1.60	1.9	30.0	1930
37	1.5	7	0.7	1.0	1.60	1.9	30.0	1946
38	1.5	7	0.7	1.0	1.60	2.0	31.1	2033
39	1.5	7	0.7	1.0	1.60	2.0	31.1	2049
40	1.5	7	0.7	1.0	1.60	2.0	31.1	2065
42	1.5	7	0.7	1.0	2.00	2.0	32.2	2171
44	1.5	7	0.7	1.0	2.00	2.0	34.1	2521
46	1.5	7	0.7	1.0	2.00	2.0	34.1	2552
48	1.5	7	0.7	1.0	2.00	2.1	34.5	2621
50	1.5	7	0.7	1.2	2.00	2.1	35.8	2768

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

transmission of reliability & brightness



Multi-cores CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thickness of Bedding mm	Nom. Diameter of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	2.5	7	0.7	1.0	1.25	1.8	18.4	739
7	2.5	7	0.7	1.0	1.25	1.8	18.4	764
8	2.5	7	0.7	1.0	1.25	1.8	19.9	865
9	2.5	7	0.7	1.0	1.60	1.8	21.8	1079
10	2.5	7	0.7	1.0	1.60	1.8	22.5	1144
11	2.5	7	0.7	1.0	1.60	1.8	22.5	1169
12	2.5	7	0.7	1.0	1.60	1.8	23.0	1226
13	2.5	7	0.7	1.0	1.60	1.8	23.9	1302
14	2.5	7	0.7	1.0	1.60	1.8	23.9	1327
15	2.5	7	0.7	1.0	1.60	1.8	24.9	1412
16	2.5	7	0.7	1.0	1.60	1.8	24.9	1437
17	2.5	7	0.7	1.0	1.60	1.8	25.9	1525
18	2.5	7	0.7	1.0	1.60	1.8	25.9	1550
19	2.5	7	0.7	1.0	1.60	1.8	25.9	1575
20	2.5	7	0.7	1.0	1.60	1.8	27.1	1673
21	2.5	7	0.7	1.0	1.60	1.8	27.1	1698
22	2.5	7	0.7	1.0	1.60	1.9	28.3	1803
23	2.5	7	0.7	1.0	1.60	1.9	28.3	1828
24	2.5	7	0.7	1.0	1.60	1.9	29.5	1932
25	2.5	7	0.7	1.0	1.60	1.9	29.5	1957

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



Multi-cores
CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thickness of Bedding mm	Nom. Diameter of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
26	2.5	7	0.7	1.0	1.60	1.9	29.5	1982
27	2.5	7	0.7	1.0	1.60	1.9	30.1	2043
28	2.5	7	0.7	1.0	1.60	1.9	31.0	2133
29	2.5	7	0.7	1.0	1.60	1.9	31.0	2158
30	2.5	7	0.7	1.0	1.60	1.9	31.0	2183
31	2.5	7	0.7	1.0	1.60	2.0	32.1	2281
32	2.5	7	0.7	1.0	1.60	2.0	32.1	2306
33	2.5	7	0.7	1.0	1.60	2.0	32.1	2331
34	2.5	7	0.7	1.0	2.00	2.0	34.0	2676
35	2.5	7	0.7	1.0	2.00	2.0	34.0	2701
36	2.5	7	0.7	1.0	2.00	2.0	34.0	2726
37	2.5	7	0.7	1.0	2.00	2.0	34.0	2751
38	2.5	7	0.7	1.2	2.00	2.1	35.6	2621
39	2.5	7	0.7	1.2	2.00	2.1	35.6	2945
40	2.5	7	0.7	1.2	2.00	2.1	35.6	2970
42	2.5	7	0.7	1.2	2.00	2.1	36.9	3122
44	2.5	7	0.7	1.2	2.00	2.2	38.1	3272
46	2.5	7	0.7	1.2	2.00	2.2	38.1	3322
48	2.5	7	0.7	1.2	2.00	2.2	38.6	3418
50	2.5	7	0.7	1.2	2.00	2.2	39.6	3548

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

transmission of reliability & brightness



Multi-cores CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thickness of Bedding mm	Nom. Diameter of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	4	7	0.7	1.0	1.25	1.8	20.0	902
7	4	7	0.7	1.0	1.25	1.8	20.0	940
8	4	7	0.7	1.0	1.60	1.8	22.5	1203
9	4	7	0.7	1.0	1.60	1.8	23.9	1324
10	4	7	0.7	1.0	1.60	1.8	24.7	1411
11	4	7	0.7	1.0	1.60	1.8	24.7	1449
12	4	7	0.7	1.0	1.60	1.8	25.3	1527
13	4	7	0.7	1.0	1.60	1.8	26.3	1627
14	4	7	0.7	1.0	1.60	1.8	26.3	1666
15	4	7	0.7	1.0	1.60	1.8	27.5	1781
16	4	7	0.7	1.0	1.60	1.8	27.5	1820
17	4	7	0.7	1.0	1.60	1.9	28.8	1941
18	4	7	0.7	1.0	1.60	1.9	28.8	1980
19	4	7	0.7	1.0	1.60	1.9	28.8	2018
20	4	7	0.7	1.0	1.60	1.9	30.1	2150
21	4	7	0.7	1.0	1.60	1.9	30.1	2189
22	4	7	0.7	1.0	1.60	2.0	31.6	2325
23	4	7	0.7	1.0	1.60	2.0	31.6	2364
24	4	7	0.7	1.0	2.00	2.0	33.8	2742
25	4	7	0.7	1.0	2.00	2.0	33.8	2781

XLPE-INSULATED CABLE

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



Multi-cores
CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thickness of Bedding mm	Nom. Diameter of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
26	4	7	0.7	1.0	2.00	2.0	33.8	2820
27	4	7	0.7	1.0	2.00	2.1	34.5	2908
28	4	7	0.7	1.2	2.00	2.1	36.0	3084
29	4	7	0.7	1.2	2.00	2.1	36.0	3123
30	4	7	0.7	1.2	2.00	2.1	36.0	3162
31	4	7	0.7	1.2	2.00	2.2	37.2	3301
32	4	7	0.7	1.2	2.00	2.2	37.2	3340
33	4	7	0.7	1.2	2.00	2.2	37.2	3379
34	4	7	0.7	1.2	2.00	2.2	38.5	3523
35	4	7	0.7	1.2	2.00	2.2	38.5	3562
36	4	7	0.7	1.2	2.00	2.2	38.5	3601
37	4	7	0.7	1.2	2.00	2.2	38.5	3639
38	4	7	0.7	1.2	2.00	2.2	39.9	3797
39	4	7	0.7	1.2	2.00	2.2	39.9	3835
40	4	7	0.7	1.2	2.00	2.2	39.9	3874
42	4	7	0.7	1.2	2.00	2.3	41.3	4076
44	4	7	0.7	1.2	2.00	2.3	42.7	4277
46	4	7	0.7	1.2	2.00	2.3	42.7	4355
48	4	7	0.7	1.2	2.00	2.4	43.3	4489
50	4	7	0.7	1.2	2.50	2.4	45.5	5079

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

transmission of reliability & brightness



Multi-cores CU/XLPE/PVC/SWA/PVC

No. of cores no	Nominal cross- sectional area of conductor mm ²	Number of wires no	Thickness of insulation mm	Nom. Thickness of Bedding mm	Nom. Diameter of Armour Wire mm	Thickness of oversheath mm	Approx overall diameter mm	Approx net weight kg/km
6	6	7	0.7	1.0	1.60	1.8	22.4	1231
7	6	7	0.7	1.0	1.60	1.8	22.4	1288
8	6	7	0.7	1.0	1.60	1.8	24.4	1466
9	6	7	0.7	1.0	1.60	1.8	26.0	1621
10	6	7	0.7	1.0	1.60	1.8	27.0	1737
6	10	7	0.7	1.0	1.60	1.8	25.2	1615
7	10	7	0.7	1.0	1.60	1.8	25.2	1708
8	10	7	0.7	1.0	1.60	1.8	27.7	1961
9	10	7	0.7	1.0	1.60	1.9	29.8	2188
10	10	7	0.7	1.0	1.60	1.9	30.9	2360