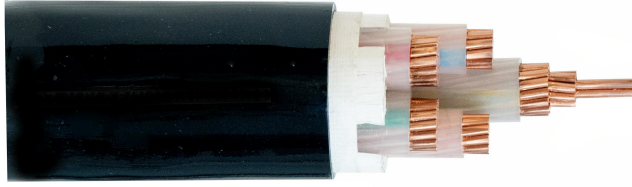


## Low-Voltage Power Cables



### 0.6/1 kV XLPE Insulated, Cables with Copper Conductor

Standards: IEC 60502-1, VDE 0276-603

#### Technical Data

Max. Operating Temperature : 90 °C

Max. Short Circuit Temperature : 250 °C (max. 5 sec.)

Rated Voltage : 0.6/1 kV

Min. Bending Radius : 12 x D (D = Cable outer diameter)

#### Application

Indoors & outdoors, cable ducts, underground, power stations, industrial plants

#### Construction

① Solid or Stranded Copper    ② XLPE Insulation    ③ PVC Outer Jacket

### Section 1 — Single Core Cables (1x1.5 mm<sup>2</sup> to 1x400 mm<sup>2</sup>)

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES					
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20°C Max	Current Carrying Capacity (A)			
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In Ground at 20°C	In Ground at 20°	In Air at 30°C	In Air at 30°C
					Flat	Trefoil	Flat	Trefoil
1x1,5	6	52	1000	12.1	-	36	29	23
1x2,5	6.5	63	1000	7.41	-	47	39	31
1x4	7.4	89	1000	4.61	-	60	52	42
1x6	7.9	110	1000	3.08	-	73	66	54
1x10	9.5	167	1000	1.83	-	97	89	73
1x16	10.5	224	1000	1.15	148	125	120	101
1x25	12	334	1000	0.727	191	159	159	133
1x35	13	436	1000	0.524	230	191	197	164
1x50	14.5	592	1000	0.387	271	225	238	198
1x70	16	808	1000	0.268	335	278	299	250
1x95	18.7	1091	1000	0.193	400	332	362	303
1x120	20.3	1351	1000	0.153	454	375	420	351
1x150	21.9	1665	1000	0.124	512	422	482	403
1x185	24.5	2032	1000	0.0991	577	474	554	462
1x240	28	2651	1000	0.0754	671	550	657	548
1x300	31.6	3267	1000	0.0601	758	621	752	627
1x400	35.2	4361	1000	0.047	860	702	875	729

## Section 2 — Two Core Cables (2x1.5 mm<sup>2</sup> to 2x300 mm<sup>2</sup>)

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter	Net Weight	Delivery Length	DC Conductor Resistance at 20°C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In Ground at 20°C	In Air at 30°C
2x1,5	11	172	1000	12.1	37	23
2x2,5	11.8	224	1000	7.41	49	31
2x4	13.7	313	1000	4.61	62	40
2x6	14.8	365	1000	3.08	78	52
2x10	16.3	521	1000	1.83	103	69
2x16	19.4	703	1000	1.15	133	102
2x25	23.6	1042	1000	0.727	174	135
2x35	25.8	1300	1000	0.524	211	165
2x50	28.9	1716	1000	0.387	250	202
2x70	32.6	2288	1000	0.268	308	258
2x95	37.3	3077	1000	0.193	369	311
2x120	41	3796	1000	0.153	418	361
2x150	45.2	4638	1000	0.124	471	414
2x185	50.4	5772	500	0.0991	532	472
2x240	56.7	7448	500	0.0754	621	556
2x300	64.3	9360	500	0.0601	700	639

## Section 3 — Three Core Cables (3x1.5 mm<sup>2</sup> to 3x400 mm<sup>2</sup>)

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter	Net Weight	Delivery Length	DC Conductor Resistance at 20°C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In Ground at 20°C	In Air at 30°C
3x1,5	11.6	208	1000	12.1	30	21
3x2,5	12.4	240	1000	7.41	39	27
3x4	14.4	354	1000	4.61	50	36
3x6	16.4	443	1000	3.08	62	46
3x10	18.5	646	1000	1.83	84	64
3x16	20.6	871	1000	1.15	110	85
3x25	25.3	1302	1000	0.727	145	112
3x35	27.5	1666	1000	0.524	175	138
3x50	31.2	2186	1000	0.387	208	164
3x70	35.4	3016	1000	0.268	258	203
3x95	40.2	4061	1000	0.193	311	247
3x120	44.3	5005	1000	0.153	352	284
3x150	48.7	6146	500	0.124	397	322
3x185	54.2	7613	500	0.0991	449	366
3x240	61.6	9849	500	0.0754	524	428
3x300	68.9	12322	250	0.0601	591	495
3x400	75.4	16135	250	0.047	679	572

## Section 4 — Four Core Cables (4x1.5 mm<sup>2</sup> to 4x400 mm<sup>2</sup>)

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter	Net Weight	Delivery Length	DC Conductor Resistance at 20°C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In Ground at 20°C	In Air at 30°C
4x1,5	12.3	245	1000	12.1	30	21
4x2,5	13.4	281	1000	7.41	39	27
4x4	15.7	417	1000	4.61	50	36
4x6	17	542	1000	3.08	62	46
4x10	19.1	720	1000	1.83	84	64
4x16	22.8	1095	1000	1.15	110	85
4x25	27.6	1618	1000	0.727	145	112
4x35	30.2	2084	1000	0.524	175	138
4x50	35	2862	1000	0.387	208	164
4x70	39.8	3900	1000	0.268	258	203
4x95	45	5200	1000	0.193	311	247
4x120	49.4	6448	500	0.153	352	284
4x150	54.6	7904	500	0.124	397	322
4x185	60.4	9841	500	0.0991	449	366
4x240	68.9	12701	500	0.0754	524	428
4x300	77.4	15819	250	0.0601	591	495
4x400	83.8	20295	250	0.047	679	572

## Section 5 — Five Core Cables (5x1.5 mm<sup>2</sup> to 5x300 mm<sup>2</sup>)

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter	Net Weight	Delivery Length	DC Conductor Resistance at 20°C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In Ground at 20°C	In Air at 30°C
5x1,5	13.5	300	1000	12.1	26	18
5x2,5	14.7	363	1000	7.41	34	24
5x4	17.2	530	1000	4.61	44	31
5x6	18.6	660	1000	3.08	56	40
5x10	21	930	1000	1.83	73	55
5x16	25	1340	1000	1.15	95	74
5x25	30.5	2000	1000	0.727	125	97
5x35	33.5	2580	1000	0.524	151	118
5x50	38.5	3450	1000	0.387	179	141
5x70	43.8	4700	1000	0.268	222	176
5x95	49.5	6300	1000	0.193	268	213
5x120	54.5	7750	500	0.153	304	244
5x150	60	9500	500	0.124	343	277
5x185	66.5	11800	500	0.0991	388	316
5x240	75.5	15200	500	0.0754	453	370
5x300	84.5	19000	250	0.0601	511	428

Note: Current carrying capacities are valid under the following conditions — In ground: 20°C, 70 cm depth of lay, soil thermal resistivity 1 K.m/W, load factor 0.7 | In air: 30°C, load factor 1.0 | Number of systems: 1