XLPE insulated power cable for rated voltage 3.6/6kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YJV22	YJLV62 YJLV22		YJV72 YJV32	YJLV72 YJLV32
1×25	2.5	17.7	509	360	21.1	739	590	24.9	880	730
1×35	2.5	19.0	628	414	22.2	863	647	26.0	1009	788
1×50	2.5	20.2	769	478	23.6	1029	736	27.4	1182	889
1×70	2.5	22.0	1008	586	25.2	1278	856	29.0	1439	1018
1×95	2.5	23.7	1274	698	27.1	1576	1000	30.9	1748	1172
1×120	2.5	25.1	1530	805	28.3	1835	1110	32.1	2018	1293
1×150	2.5	26.7	1818	918	30.1	2156	1256	33.9	2349	1449
1×185	2.5	28.5	2179	1076	31.7	2524	1424	36.5	2824	1732
1×240	2.6	31.1	2762	1290	34.5	3156	1683	39.1	3463	1990
1×300	2.8	34.0	3399	1551	38.8	4184	2336	42.0	4156	2308
1×400	3.0	37.3	4273	1919	41.9	5109	2760	45.3	5103	2750
1×500	3.2	42.2	5430	2401	47.0	6396	3374	51.4	6539	3512
1×630	3.2	46.1	6843	2910	51.1	7920	3991	55.5	8075	4144
1×800	3.2	50.2	8560	3514	55.2	9729	4683	59.6	9884	4837
1×1000	3.2	53.1	10331	4136	58.7	11666	5472	62.3	11759	5609
3×25	2.5	35.6	1686	1234	40.2	2489	2037	43.6	3383	2932
3×35	2.5	38.2	2089	1443	43.0	2968	2313	47.4	4333	3644
3×50	2.5	41.0	2530	1651	45.8	3470	2585	50.2	4917	3996
3×70	2.5	44.7	3355	2083	49.7	4399	3128	54.1	5953	4682
3×95	2.5	48.5	4178	2440	53.5	5309	3572	57.9	7010	5272
3×120	2.5	51.3	4937	2751	56.7	6183	3997	61.1	7965	5779
3×150	2.5	55.0	5965	3251	60.6	7326	4612	65.0	9214	6500
3×185	2.5	58.6	7028	3704	64.2	8475	5161	68.6	10473	7193
3×240	2.6	64.7	8928	4489	70.5	10561	6118	74.9	12789	8309
3×300	2.8	70.9	11004	5432	76.9	12813	7242	85.0	16326	10755
3×400	3.0	77.8	13659	6563	85.4	16492	9411	92.3	19528	12500
3×500	3.2	88.3	17519	8389	96.1	20771	11664	103.0	24204	15146
3×630	3.2	96.7	21941	10083	105.1	25639	13797	112.0	29392	17603

“62” is non-magnetic metal belt armor; “72” is non-magnetic metal wire armor

XLPE insulated power cable for rated voltage 6/10kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YJV22	YJLV62 YJV22		YJV72 YJV32	YJLV72 YJLV32
1×25	3.4	19.7	577	428	23.1	831	681	26.9	981	831
1×35	3.4	20.8	691	477	24.2	958	741	28.0	1114	898
1×50	3.4	22.2	845	553	25.6	1129	835	29.2	1278	985
1×70	3.4	23.8	1079	658	27.2	1382	961	31.0	1553	1132
1×95	3.4	25.7	1362	785	29.1	1687	1111	32.7	1859	1283
1×120	3.4	26.9	1609	884	30.3	1950	1225	34.9	2223	1498
1×150	3.4	28.7	1915	1015	32.1	2276	1376	36.7	2570	1670
1×185	3.4	30.3	2268	1166	33.7	2649	1550	38.3	2953	1852
1×240	3.4	32.9	2840	1368	37.5	3580	2105	40.9	3580	2107
1×300	3.4	35.4	3471	1623	40.0	4263	2416	43.4	4257	2409
1×400	3.4	38.1	4322	1969	42.9	5198	2849	47.3	5328	2990
1×500	3.4	42.6	5457	2429	47.4	6432	3411	51.8	6583	3557
1×630	3.4	46.5	6873	2940	51.5	7959	4030	55.9	8109	4177
1×800	3.4	50.6	8593	3546	55.6	9771	4724	60.2	9960	4914
1×1000	3.4	53.5	10365	4171	59.3	11711	5516	62.7	11804	5645
3×25	3.4	39.7	1935	1483	44.7	2868	2417	49.1	4252	3801
3×35	3.4	42.3	2361	1714	47.1	3330	2673	51.7	4821	4170
3×50	3.4	45.1	2815	1934	50.3	3892	3006	54.7	5481	4559
3×70	3.4	48.8	3589	2318	54.2	4776	3504	58.6	6472	5201
3×95	3.4	52.8	4453	2715	58.0	5706	3969	62.4	7509	5771
3×120	3.4	55.6	5360	3175	61.0	6707	4521	65.4	8629	6443
3×150	3.4	59.3	6214	3500	64.7	7646	4932	69.1	9677	6963
3×185	3.4	62.9	7444	4121	68.5	8993	5681	72.9	11131	7853
3×240	3.4	68.3	9152	4713	74.3	10888	6443	82.4	14309	9804
3×300	3.4	73.7	11211	5639	79.9	13115	7544	88.0	16727	11155
3×400	3.4	79.5	13945	6850	87.1	16841	9761	94.0	19963	12873
3×500	3.4	89.2	17604	8474	97.0	20887	11781	104.1	24410	15352
3×630	3.4	97.8	22100	10242	106.0	25786	13944	112.9	29582	17730

XLPE insulated power cable for rated voltage from 8.7/10(15)kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YJV22	YJLV62 YLV22		YJV72 YJV32	YJLV72 YJLV32
1×25	4.5	22.1	667	518	25.3	938	788	29.1	1099	949
1×35	4.5	23.2	785	570	26.6	1081	863	30.4	1249	1032
1×50	4.5	24.4	933	641	27.8	1244	950	31.6	1423	1125
1×70	4.5	26.2	1175	754	29.6	1505	1083	33.4	1695	1274
1×95	4.5	28.1	1455	879	31.3	1790	1214	36.1	2094	1518
1×120	4.5	29.3	1706	982	32.7	2071	1346	37.3	2372	1647
1×150	4.5	31.1	2039	1138	34.3	2413	1513	38.9	2723	1822
1×185	4.5	32.7	2376	1274	37.3	3106	2009	40.7	3103	2012
1×240	4.5	35.3	2979	1506	39.9	3769	2294	43.3	3764	2291
1×300	4.5	38.6	3719	1871	43.2	4593	2745	46.4	4558	2710
1×400	4.5	41.3	4575	2222	46.1	5529	3181	50.5	5666	3315
1×500	4.5	45.4	5670	2643	50.4	6731	3710	54.8	6883	3858
1×630	4.5	49.3	7088	3155	54.3	8231	4303	58.7	8388	4471
1×800	4.5	53.4	8842	3795	58.6	10110	5064	63.0	10275	5228
1×1000	4.5	58.9	10843	4684	64.5	12298	6139	68.9	12480	6322
3×25	4.5	44.9	2278	1827	49.9	3327	2876	54.3	4878	4427
3×35	4.5	47.5	2653	2003	52.5	3760	3100	56.9	5396	4743
3×50	4.5	50.3	3172	2290	55.5	4368	3481	59.9	6124	5201
3×70	4.5	53.9	3892	2620	59.1	5161	3889	63.5	7033	5761
3×95	4.5	57.8	4859	3121	63.4	6264	4526	67.8	8248	6510
3×120	4.5	60.6	5586	3401	66.4	7089	4903	70.8	9192	7007
3×150	4.5	64.2	6711	3997	70.0	8323	5609	75.7	11398	8684
3×185	4.5	67.9	7751	4430	73.9	9465	6155	82.0	12834	9582
3×240	4.5	73.5	9727	5287	79.7	11625	7180	87.8	15240	10797
3×300	4.5	80.6	11975	6403	88.2	14940	9368	95.1	18080	12508
3×400	4.5	86.4	14761	7669	94.2	17973	10897	101.1	21305	14282
3×500	4.5	95.2	18315	9190	103.2	21859	12758	110.1	25586	16469
3×630	4.5	103.6	22848	10993	112.2	26834	14996	120.8	32622	20875

“62”is non-magnetic metal belt armor; “72”is non-magnetic metal wire armor

XLPE insulated power cable for rated voltage 12/20kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YIV22	YJLV62 Y.ILV22		YJV72 YJV32	YJLV72 Y.LV32
1×35	5.5	25.4	879	663	28.8	1201	982	32.4	1369	1152
1×50	5.5	26.6	1032	739	30.0	1368	1074	33.8	1556	1263
1×70	5.5	28.4	1289	867	31.8	1647	1225	36.4	1933	1512
1×95	5.5	30.1	1572	995	33.5	1951	1374	38.1	2255	1679
1×120	5.5	31.5	1841	1116	34.9	2237	1512	39.5	2554	1830
1×150	5.5	33.1	2145	1245	37.7	2894	1993	41.1	2888	1987
1×185	5.5	34.9	2524	1424	39.5	3310	2214	42.9	3300	2209
1×240	5.5	37.5	3127	1654	42.1	3968	2492	45.3	3938	2464
1×300	5.5	39.8	3759	1911	44.8	4693	2845	49.2	4827	2979
1×400	5.5	42.5	4617	2264	47.5	5610	3263	51.9	5751	3414
1×500	5.5	47.0	5782	2756	52.2	6903	3884	56.6	7061	4037
1×630	5.5	50.9	7224	3292	56.3	8461	4534	60.7	8632	4702
1×800	5.5	55.2	8996	3950	60.4	10305	5258	64.8	10474	5428
1×1000	5.5	60.7	11012	4853	66.1	12479	6320	70.5	12665	6506
3×35	5.5	52.0	2975	2323	57.4	4237	3574	61.8	6049	5353
3×50	5.5	54.8	3594	2711	60.4	4949	4061	64.8	6841	5956
3×70	5.5	58.4	4301	3029	64.0	5742	4471	68.4	7744	6472
3×95	5.5	62.5	5344	3607	68.1	6883	5145	72.5	9028	7290
3×120	5.5	65.3	6138	3953	71.1	7777	5591	77.0	10933	8747
3×150	5.5	68.9	7088	4374	74.7	8815	6101	83.0	12261	9547
3×185	5.5	72.6	8356	5038	78.8	10244	6937	86.9	13801	10551
3×240	5.5	78.2	10185	5744	85.8	13034	8585	92.7	16123	11616
3×300	5.5	83.4	12292	6721	91.2	15367	9796	98.1	18655	13084
3×400	5.5	89.2	15109	8018	97.4	18478	11403	104.3	21961	14876
3×500	5.5	98.8	18983	9860	107.2	22758	13659	114.1	26595	17545
3×630	5.5	107.4	23494	11640	115.8	27584	15747	124.4	33591	21744

“62” is non-magnetic metal belt armor； “72” is non-magnetic metal wire armor

XLPE insulation power cable for rated voltage from 18/30kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YJV22	YJLV62 YJV22		YJV72 YJV32	YJLV72 YJLV32
1×50	8.0	32.0	1236	943	35.4	1638	1343	40.0	1953	1659
1×70	8.0	33.6	1490	1068	38.4	2266	1844	41.6	2244	1823
1×95	8.0	35.5	1797	1221	40.1	2596	2020	43.5	2585	2009
1×120	8.0	36.7	2048	1323	41.5	2887	2162	44.7	2861	2136
1×150	8.0	38.5	2377	1476	43.3	3257	2357	47.7	3398	2498
1×185	8.0	40.1	2761	1661	45.1	3702	2607	49.5	3846	2748
1×240	8.0	42.7	3378	1904	47.7	4376	2901	52.1	4528	3053
1×300	8.0	46.0	4084	2236	51.0	5158	3310	55.4	5315	3467
1×400	8.0	48.7	4991	2640	53.7	6134	3788	58.3	6317	3968
1×500	8.0	52.8	6116	3092	58.0	7371	4353	62.4	7544	4521
1×630	8.0	56.7	7582	3651	62.3	8983	5057	66.7	9157	5242
1×800	8.0	60.8	9354	4307	66.4	10852	5806	70.8	11039	5992
1×1000	8.0	66.5	11428	5270	72.1	13064	6905	76.5	13267	7108
3×50	8.0	66.4	4314	3430	72.4	6012	5122	78.1	9183	8233
3×70	8.0	70.0	5248	3976	76.0	7035	5763	84.1	10497	9225
3×95	8.0	73.9	6164	4426	80.1	8085	6347	88.4	11790	10053
3×120	8.0	76.9	6979	4794	84.5	9766	7581	91.4	12769	10583
3×150	8.0	80.5	7984	5270	88.1	10899	8185	95.0	14077	11363
3×185	8.0	84.2	9323	6009	92.0	12426	9127	98.9	15701	12456
3×240	8.0	89.6	11370	6928	97.8	14755	10305	104.7	18228	13783
3×300	8.0	96.7	13645	8074	104.9	17291	11720	111.8	21050	15478
3×400	8.0	102.5	16670	9583	111.1	20660	13590	119.7	26349	19371
3×500	8.0	111.3	20243	11126	120.1	24587	15495	128.7	30818	21710
3×630	8.0	119.9	24924	13074	128.9	29653	17820	137.9	36809	24966

XLPE insulated power cable for rated voltage from 26/35kV

Nominal cross-sectional area mm²	Insulation thickness mm	YJV、YJY、YJLV、YJLY			YJV62、YJV22、YJLV62、YJLV22			YJV72、YJV32、YJLV72、YJLV32		
		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable		Approx overall diameter mm	Calculated weight of cable	
			YJV YJY	YJLV YJLY		YJV62 YJV22	YJLV62 YJLLV22		YJV72 YJV32	YJLV72 YJLV32
1×50	10.5	37.4	1541	1247	42.2	2401	2104	46.6	2528	2233
1×70	10.5	39.0	1808	1386	44.0	2723	2301	48.4	2856	2434
1×95	10.5	40.9	2131	1555	45.7	3068	2491	50.1	3202	2626
1×120	10.5	42.1	2390	1665	47.1	3370	2645	51.5	3519	2795
1×150	10.5	43.9	2748	1848	48.9	3774	2874	53.3	3921	3021
1×185	10.5	45.5	3120	2021	50.7	4200	3107	55.1	4356	3260
1×240	10.5	48.1	3773	2298	53.1	4893	3416	57.5	5051	3576
1×300	10.5	51.4	4535	2687	56.6	5766	3918	61.0	5926	4078
1×400	10.5	54.1	5436	3087	59.3	6728	4384	63.7	6895	4547
1×500	10.5	60.0	6842	3819	65.6	8323	5307	70.0	8507	5500
1×630	10.5	63.9	8315	4385	69.7	9917	5992	74.1	10116	6189
1×800	10.5	68.0	10133	5087	74.0	11875	6828	79.9	12429	7383
1×1000	10.5	70.5	12119	5925	81.1	14334	13994	86.8	14912	8754
3×50	10.5	78.0	5427	4540	85.6	8268	7373	92.5	11298	10409
3×70	10.5	81.6	6323	5052	89.4	9335	8064	96.3	12537	11265
3×95	10.5	85.5	7372	5634	93.3	10521	8784	100.4	13875	12137
3×120	10.5	88.3	8374	6189	96.5	11695	9510	103.4	15145	12960
3×150	10.5	91.9	9567	6853	100.3	13085	10371	107.2	16696	13982
3×185	10.5	95.8	10884	7575	104.0	14478	11184	110.9	18211	14907
3×240	10.5	101.2	12973	8528	109.8	16881	12428	118.4	22519	18070
3×300	10.5	108.3	15342	9770	116.9	19550	13978	125.5	25521	19949
3×400	10.5	114.1	18278	11197	123.1	22814	15750	131.7	29176	22102
3×500	10.5	127.2	22833	13722	136.5	27907	18822	145.5	35466	26366
3×630	10.5	135.6	27483	15638	145.2	32997	21169	154.2	41062	29224

1) “62” is non-magnetic metal belt armor; “72” is non-magnetic metal wire armor

2)Nominal cross section of 500 square meters and above,copper wire loose winding structure,model with “S”,such as “YJSV”,“YJLSV22”

Nominal cross sectional area of conductor mm²	Max.D.C.resistance at of conductor at 20℃		Conductor maximum short circuit current (is) at 90℃(kA)	
	Copper conductor	Aluminium conductor	Copper conductor	Aluminium conductor
25	0.727	1.20	3.58	2.36
35	0.524	0.868	5.01	3.31
50	0.387	0.641	7.15	4.72
70	0.268	0.443	10.02	6.61
95	0.193	0.320	13.59	8.98
120	0.153	0.253	17.17	11.34
150	0.124	0.206	21.46	14.17
185	0.0991	0.164	26.47	17.48
240	0.0754	0.125	24.34	22.68
300	0.0601	0.100	42.93	28.35
400	0.0470	0.0778	57.23	37.79
500	0.0366	0.0605	71.54	47.24
630	0.0283	0.0469	90.14	59.53

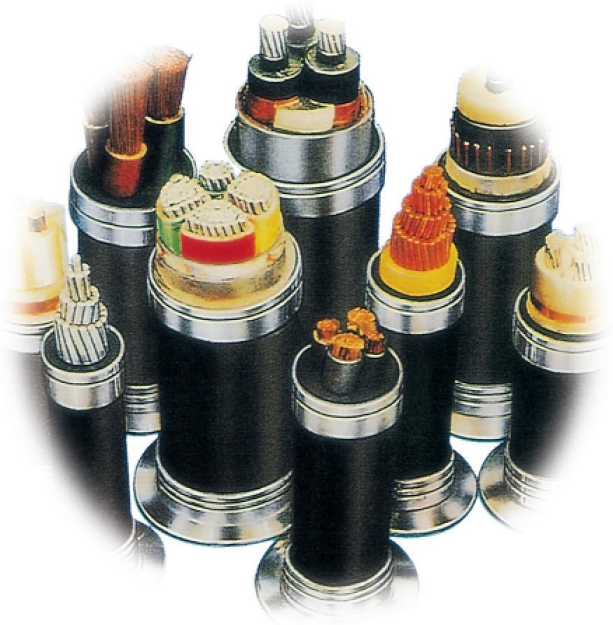
Voltage test and Partial discharge test

No	Test items	Rated voltage kV						
		3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
1	Power frequency A.C.voltage test KV/5min	12.5	21	30.5	42	63	73.5 (53)*	91 (65)*
2	A.C.Voltage test for 4 hours KV	14.4	24	34.8	48	72	84	104
3	Impulse voltage test kV	60	75	95	125	170	200	250
4	Partial discharge test Maximum discharge at 1.73Uo pC	5	5	5	5	5	5	5

The power-frequency Voltage test of cables for rated voltage 21/35kV to 26/35kV shall be done upon request according to 2.5 UoX30min or 3.5UoX5min

Capacitance of cable (reference value)

Nominal cross sectional area of conductor mm²	Rated voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
	Capacitance/phase μF/km						
25	0.2662	0.2110	0.1729	—	—	—	—
35	0.2974	0.2342	0.1907	0.1659	—	—	—
50	0.3313	0.2594	0.2100	0.1819	0.1416	0.1289	0.1198
70	0.3763	0.2927	0.2355	0.2030	0.1565	0.1419	0.1315
95	0.4240	0.3280	0.2624	0.2252	0.1722	0.1556	0.1437
120	0.4576	0.3529	0.2813	0.2408	0.1831	0.1651	0.1523
150	0.5024	0.3860	0.3065	0.2616	0.1977	0.1777	0.1636
185	0.5471	0.4190	0.3316	0.2822	0.2121	0.1903	0.1748
240	0.5929	0.4684	0.3691	0.3131	0.2336	0.2089	0.1914
300	0.6125	0.5157	0.4112	0.3425	0.2577	0.2267	0.2100
400	0.6340	0.5670	0.4501	0.3745	0.2799	0.2459	0.2271
500	0.6878	0.6511	0.5107	0.4268	0.3143	0.2788	0.2536
630	0.7683	0.7270	0.5682	0.4739	0.3469	0.3069	0.2786



Nominal cross sectional area of conductor mm²	Rated voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
	Inductance mH/km						
1×25	0.4431	0.4613	0.4795	—	—	—	—
1×35	0.4191	0.4364	0.4553	0.4712	—	—	—
1×50	0.3997	0.4160	0.4325	0.4478	0.4809	0.5024	0.5161
1×70	0.3772	0.3925	0.4094	0.4238	0.4616	0.4756	0.4888
1×95	0.3598	0.3740	0.3886	0.4022	0.4382	0.4527	0.4644
1×120	0.3486	0.3623	0.3775	0.3906	0.4253	0.4392	0.4506
1×150	0.3372	0.3501	0.3634	0.3823	0.4100	0.4226	0.4344
1×185	0.3264	0.3386	0.3589	0.3704	0.3970	0.4099	0.4204
1×240	0.3152	0.3319	0.3443	0.3551	0.3801	0.3923	0.4015
1×300	0.3150	0.3211	0.3366	0.3438	0.3698	0.3775	0.3906
1×400	0.3075	0.3123	0.3267	0.3326	0.3572	0.3652	0.3770
1×500	0.3038	0.3055	0.3178	0.3248	0.3459	0.3600	0.3707
1×630	0.2943	0.2959	0.3065	0.3137	0.3340	0.3466	0.3566
3×25	0.3615	0.3856	0.4117	—	—	—	—
3×35	0.3424	0.3649	0.3894	0.4093	—	—	—
3×50	0.3260	0.3470	0.3699	0.3887	0.4292	0.4474	0.4628
3×70	0.3091	0.3283	0.3495	0.3669	0.4049	0.4222	0.4368
3×95	0.2953	0.3128	0.3324	0.3487	0.3844	0.4007	0.4146
3×120	0.2873	0.3039	0.3225	0.3380	0.3722	0.3879	0.4014
3×150	0.2784	0.2938	0.3113	0.3259	0.3583	0.3733	0.3862
3×185	0.2710	0.2854	0.3018	0.3156	0.3464	0.3608	0.3731
3×240	0.2634	0.2751	0.2901	0.3029	0.3316	0.3450	0.3567
3×300	0.2591	0.2671	0.2859	0.2929	0.3238	0.3325	0.3471
3×400	0.2551	0.2600	0.2774	0.2839	0.3129	0.3211	0.3349
3×500	0.2556	0.2578	0.2712	0.2791	0.3036	0.3187	0.3311
3×630	0.2485	0.2504	0.2627	0.2699	0.2925	0.3066	0.3182

Inductance cable

Nominal cross sectional area of conductor mm²	Rated voltage kV						
	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35
	Short circuit current (1 Second) (kA)						
1×25	0.769	0.870	0.992	—	—	—	—
1×35	0.831	0.931	1.053	1.165	—	—	—
1×50	0.898	0.998	1.120	1.232	1.510	1.655	1.788
1×70	0.987	1.087	1.198	1.321	1.599	1.744	1.877
1×95	1.081	1.181	1.282	1.415	1.694	1.838	1.972
1×120	1.148	1.248	1.348	1.482	1.749	1.905	2.028
1×150	1.237	1.337	1.460	1.571	1.838	1.994	2.128
1×185	1.326	1.426	1.527	1.660	1.939	2.083	2.206
1×240	1.482	1.549	1.671	1.794	2.072	2.217	2.351
1×300	1.621	1.677	1.877	1.922	2.245	2.345	2.545
1×400	1.783	1.827	2.017	2.061	2.406	2.484	2.685
1×500	2.044	2.067	2.211	2.300	2.601	4.657	4.657
1×630	2.250	2.273	2.406	2.507	2.807	4.657	4.657
3×25	1.930	2.182	2.490	—	—	—	—
3×35	2.084	2.336	2.644	2.924	—	—	—
3×50	2.252	2.504	2.812	3.091	3.791	4.155	4.490
3×70	2.476	2.728	3.007	3.315	4.015	4.378	4.714
3×95	2.714	2.966	3.217	3.553	4.252	4.616	4.952
3×120	2.882	3.133	3.385	3.721	4.392	4.784	5.092
3×150	3.105	3.357	3.665	3.945	4.616	5.008	5.344
3×185	3.329	3.581	3.833	4.168	4.868	5.232	5.539
3×240	3.721	3.889	4.196	4.504	5.204	5.567	5.903
3×300	4.071	4.211	4.714	4.826	5.637	5.889	6.393
3×400	4.476	4.588	5.064	5.176	6.043	6.239	6.742
3×500	5.134	5.190	5.553	5.777	6.532	14.039	14.039
3×630	5.651	5.707	6.043	6.295	7.050	14.039	14.039

Short circuit current of mechanic-screen

XLPE insulated power cable for rated voltage from 3.6/6~6/10kV

Conductor	Nominal cross Sectional area of conductor mm²	In the air			Under the ground		
		Air temperature:40℃			Air temperature:25℃		
		Single-core		Three-core	Single-core		Three-core
		O OO	OOO		O OO	OOO	
Copper Conductor	25	147	176	128	119	122	112
	35	178	215	147	141	146	132
	50	215	257	182	165	171	152
	70	266	321	223	202	208	191
	95	326	391	270	242	248	230
	120	375	450	317	270	277	258
	150	426	504	357	302	306	286
	185	489	574	417	340	343	325
	240	577	671	488	392	393	381
	300	662	762	557	440	439	430
	400	761	845	651	493	478	477
	500	867	929	753	548	538	544
	630	988	1021	—	610	560	—
	800	1147	1143	—	690	618	—
	1000	1344	1292	—	788	687	—
Aluminium Conductor	50	165	200	141	129	133	118
	70	207	250	173	157	162	148
	95	252	305	209	187	194	178
	120	292	352	246	211	218	200
	150	332	396	277	235	241	222
	185	382	454	323	265	271	252
	240	452	535	378	307	312	295
	300	520	610	432	347	350	333
	400	606	693	505	393	390	370
	500	701	784	584	446	434	422
	630	804	883	—	508	482	—
	800	914	990	—	577	536	—
	1000	1030	1100	—	655	595	—

XLPE insulated power cable for rated voltage from 8.7/10 (15) ~12/20kV

Conductor	Nominal cross Sectional area of conductor mm²	In the air			Under the ground		
		Air temperature:40℃			Air temperature:25℃		
		Single-core		Three-core	Single-core		Three-core
		O OO	OOO		O OO	OOO	
Copper Conductor	25	148	178	129	120	123	116
	35	180	217	159	142	147	135
	50	217	260	188	167	173	155
	70	269	324	230	204	210	196
	95	329	395	283	244	250	235
	120	379	455	324	273	280	264
	150	430	509	365	305	309	283
	185	494	580	418	343	346	319
	240	583	678	488	396	397	377
	300	669	770	559	444	443	423
	400	769	854	653	498	483	482
	500	876	938	747	554	543	547
	630	998	1031	_	616	566	_
	800	1159	1155	_	697	624	_
	1000	1358	1305	_	796	694	_
Aluminium Conductor	50	167	202	146	130	134	120
	70	209	253	178	159	164	152
	95	255	308	219	189	196	182
	120	295	356	251	213	220	205
	150	335	400	283	237	243	219
	185	386	459	324	268	274	247
	240	457	540	378	310	315	292
	BOO	525	616	433	350	354	328
	400	612	700	506	397	394	374
	500	708	792	579	451	438	424
	630	812	892	_	513	487	_
	800	923	1000	_	583	541	_
	1000	1040	1111	_	662	601	_

XLPE insulated power cable for rated voltage from 18/30~26/35kV

Conductor	Nominal cross Sectional area of conductor mm²	In the air			Under the ground		
		Air temperature:40℃			Air temperature:25℃		
		Single-core		Three-core	Single-core		Three-core
		O OO	OOO		O OO	OOO	
Copper Conductor	25	—	—	—	—	—	—
	35	—	—	—	—	—	—
	50	219	262	188	168	174	158
	70	271	326	234	205	211	193
	95	331	398	281	246	252	231
	120	382	458	323	275	282	261
	150	433	513	368	307	311	289
	185	497	584	420	345	348	328
	240	587	683	490	399	400	377
	300	674	775	559	447	446	422
	400	774	860	643	501	486	474
	500	882	945	737	558	547	531
	630	1005	1038	—	620	570	—
	800	1167	1163	—	702	628	—
	1000	1368	1314	—	802	699	—
Aluminium Conductor	50	168	203	146	131	135	123
	70	210	255	180	160	165	150
	95	257	310	218	190	197	178
	120	297	358	251	214	222	203
	150	337	403	285	239	245	221
	185	389	462	328	270	276	251
	240	460	544	383	312	317	297
	300	529	620	439	352	356	333
	400	616	705	509	400	397	378
	500	713	798	587	454	441	427
	630	818	898	—	517	490	—
	800	929	1007	—	587	545	—
	1000	1047	1119	—	667	605	—