

# 35kV及以下交联聚乙烯绝缘电力电缆

## 35 kV and below Power Cable with XLPE Insulation

本产品适用于固定敷设在交流50Hz，额定电压35kV及以下的电力输配电线路上作输送电能用。与聚氯乙烯绝缘电力电缆相比，交联电力电缆产品不仅具有优异的电气性能、机械性能、耐热老化性能、耐环境应力和耐化学腐蚀性能的能力，而且结构简单，重量轻，不受敷设落差限制，长期工作温度90°C等特点。

### 一、生产执行标准

GB/T12706.1-2008~GB/T12706.3-2008《额定电压1kV (Um=1.2kV) 到35kV (Um=40.5kV) 挤包绝缘电力电缆》，也可按用户需要，采用国际电工委员会IEC60502标准生产。

### 二、使用特点

- 1、电缆导体的允许长期最高工作温度为90°C；
- 2、短路时（最长持续时间不超过5秒）电缆导体的最高温度不超过250°C；
- 3、电缆敷设时的环境温度不得低于0°C；
- 4、电缆的最小弯曲半径：

多芯电缆无铠装不小于电缆外径的15倍，有铠装不小于电缆外径的12倍；

单芯电缆无铠装不小于电缆外径的20倍，有铠装不小于电缆外径的15倍；

- 5、电缆的工频额定电压U0/U为0.6/1kV~26/35kV。

U0：电缆设计用的导体对地或金属屏蔽之间的额定工频电压，称相电压；

U：电缆设计用的导体间的额定工频电压，称线电压；

Um：设备可承受的“最高系统电压”的最大值；

D：电缆外径。

### 三、电缆型号名称及适用场合

型号 Type		名称 Description	适用场合 Application occasion
铜 Cu	铝 Al		
YJV	YJLV	交联聚乙烯绝缘聚氯乙烯护套电力电缆 Power cable with XLPE insulation,PVC sheath.	敷设在室内、隧道、电缆沟及管道中，也可埋在松散的土壤中，电缆不能承受机械外力作用。单芯电缆不允许敷设在磁性管道中。 To be laid indoors,in the tunnel,cable furrow,pipe or under soft soil.The cable can not bear mechanical force from outside. Single core cable isn't permitted to be laid in the magnetic pipe.
YJY	YJLY	交联聚乙烯绝缘聚乙烯护套电力电缆 Power cable with XLPE insulation,PE sheath.	
YJV22	YJLV22	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Power cable with XLPE insulation,steel tape armored,PVC sheath.	直埋敷设在地下（埋设深度：距地面≥0.7m），电缆能承受一定机械外力作用，但不能承受大的拉力。 To be laid underground(depth of burying:more than 0.7m). The cable can bear certain mechanical force ,but it can not bear great pulling force.
YJV23	YJLV23	交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Power cable with XLPE insulation,steel tape armored,PE sheath.	
YJV32	YJLV32	交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 Power cable with XLPE insulation,steel wire armored,PVC sheath.	
YJV33	YJLV33	交联聚乙烯绝缘细钢丝铠装聚乙烯护套电力电缆 Power cable with XLPE insulation,steel wire armored,PE sheath.	

The cable is used to transmit power on the power transmission and distribution line of A.C.50Hz, rated voltage 35kV and below. By comparison with power cable with PVC insulation, it has not only excellent electric performance, mechanical performance, heat & aging resistant performance, weather resistant performance, chemical corrosion resistant performance, but also simple structure, light weight, no restriction by laying drop, and working temperature is 90°C for long term.

### Executive standard

GB/T12706.1-2008~ GB/T12706.3-2008《Rated voltage 1kV (Um=1.2kV) to 35kV(Um=40.5kV) extruded insulated power cable》,also can use the IEC60502 standard of the International Elestroteshnical Commission as required by the user.

### Working Condition

- 1、Long-term working temperature by cable conductor is 90°C.
- 2、Max. temperature of cable conductor shall be no more than 250°C during short circuit (the longest lasting time shall be no more than 5 seconds).
- 3、Environment temperature for installation is no less than 0°C.
- 4、Min bending radium of cable:

The multi core cable without armored is not less than 15 times of the outer diameter of the cable,the multi core with armored is not less than 12 times of the outer diameter of the cable.

The single core cable without armored is not less than 20 times of outer diameter of the cable,the single core cable with armor-dis is not less than 15 times of the outer diameter of the cable.

- 5、Power frequency rated voltage U0/U of cable is 0.6/1kV~26/35kV.

U0: Power frequency rated voltage of the conductor for cable designing to earth or between metallic, which is called phrase voltage.

U: Power frequency rated voltage between conductor for cable designing, which is called wire voltage.

Um: The max value of the"Maximum system voltage" which the equipment can bear.

D:outside diameter of cable.

### Type, Description and Application Occasion

备注：

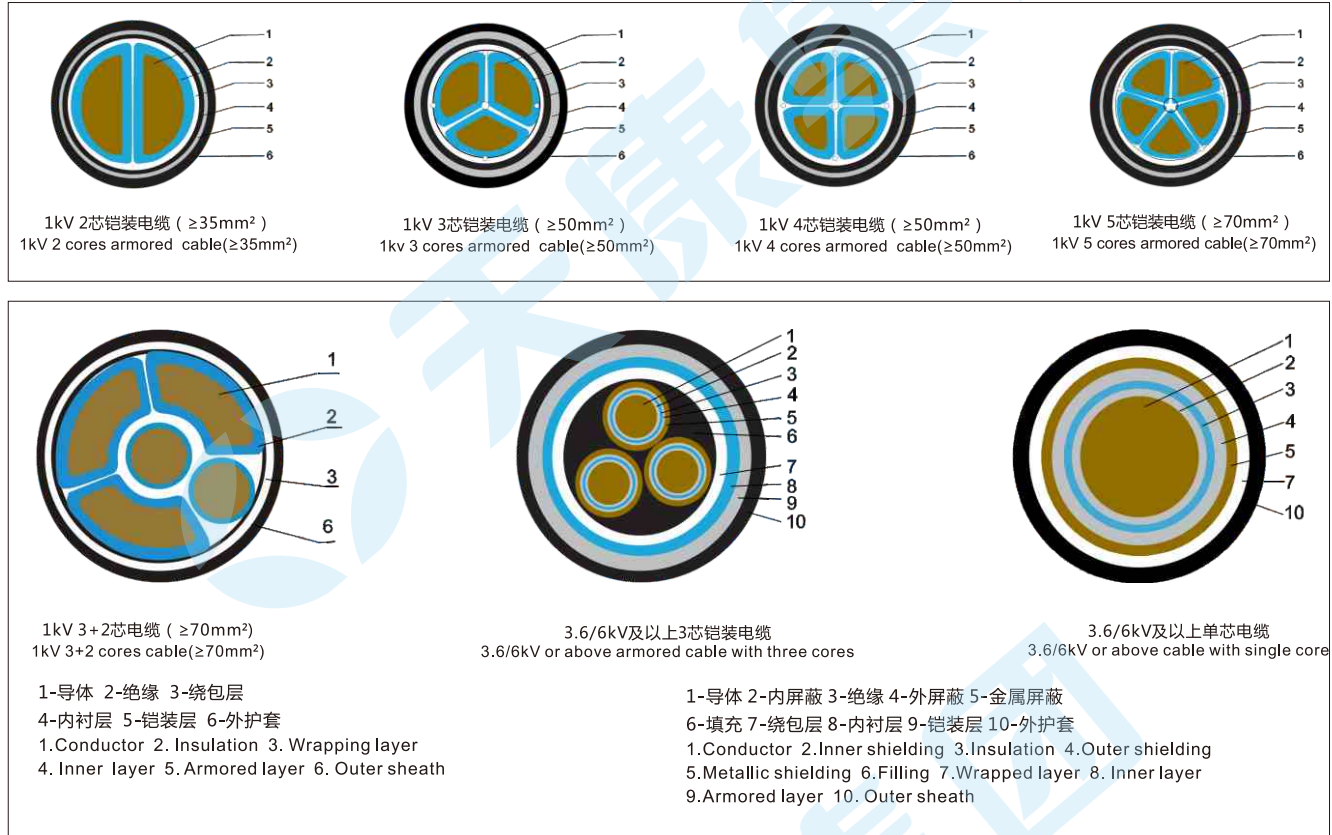
- 1、可根据用户需要，提供钢丝铠装型交联力缆，如：YJV32、YJLV32、YJV33、YJLV33；
- 2、需要阻燃型电缆，应在原型号前加“Z-、ZR-、ZA-、ZB-ZC-、ZD-”表示；
- 3、需要耐火型电缆，应在原型号前加“ZN-、ZAN-、ZBN-、ZCB-ZDN-、WDZN-、WDZAN-、WDZBN-、WDZCB-WDZDN-、ZD-”表示。

Note:

- 1、We also produce steel wire armored cross-linked power cable such as YJV32、YJLV32、YJV33、YJLV33 according to the requirement of the customer.
- 2、When need flame retardant cable, Prefix "Z-、ZR-、ZA-、ZB-、ZC-、ZD-" should be added before the prototype type.
- 3、when need fire resistant cable, Prefix "ZN-、ZAN-、ZBN-、ZCB-、ZDN-、WDZN-、WDZAN-、WDZBN-、WDZCB-、WDZDN-、ZD-" should be added before the prototype type.

#### 四、电缆结构示意图

#### The Figure of Cable Structure



#### 五、生产范围

#### Production Scope

型号 Type		芯数 Core No.	额定电压 (kV) Rated voltage									
铜 Cu	铝 Al		0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/20 18/30	21/35	26/35	
YJV YJY	YJLV YJLY	1	1.5~800	10~800	25~630	25~630	25~500	35~630	50~630	50~630	50~630	
		3	1.5~300	10~300	25~300	25~300	25~300	35~300	50~300	50~300	50~300	
		2	1.5~240	10~150	/	/	/	/	/	/	/	/
		3+1	4~300	10~300	/	/	/	/	/	/	/	/
		3+2 4+1	50~240	/	/	/	/	/	/	/	/	/
		5	1.5~150	/	/	/	/	/	/	/	/	/
YJV22 YJV23	YJLV22 YJLV23	1	10~800	10~800	25~630	25~630	25~630	35~630	50~630	50~630	50~630	
		3	2.5~300	10~240	25~300	25~300	25~300	35~300	50~300	50~300	50~300	
		2	4~150	10~150	/	/	/	/	/	/	/	/
		3+1	4~300	10~240	/	/	/	/	/	/	/	/
		3+2 4+1	50~240	/	/	/	/	/	/	/	/	/
		5	2.5~150	/	/	/	/	/	/	/	/	/

## 六、电缆外径尺寸

OD Size of Cable(OD:outer diameter)

YJV-0.6/1kV、YJLV-0.6/1kV Table 1

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*1.5	0.7	1.4	5.6	/	/
1*2.5	0.7	1.4	6.0	68	/
1*4	0.7	1.4	6.5	87	/
1*6	0.7	1.4	7.0	110	/
1*10	0.7	1.4	8.2	115	95
1*16	0.7	1.4	9.3	220	120
1*25	0.9	1.4	11.0	345	190
1*35	0.9	1.4	12.0	424	207
1*50	1.0	1.4	13.8	554	245
1*70	1.1	1.4	16.2	770	336
1*95	1.1	1.5	17.2	1040	455
1*120	1.2	1.5	19.1	1290	550
1*150	1.4	1.6	21.2	1575	642
1*185	1.6	1.7	23.1	1929	798
1*240	1.7	1.8	26.0	2500	1016
1*300	1.8	1.9	28.4	3056	1230
1*400	2.0	2.0	33.1	3622	1446
1*500	2.2	2.1	37.8	4950	1845

YJV-0.6/1kV、YJLV-0.6/1kV Table 2

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
2*1.5	0.7	1.8	9.7	103	/
2*2.5	0.7	1.8	10.6	131	/
2*4	0.7	1.8	11.5	168	118
2*6	0.7	1.8	12.6	216	142
2*10	0.7	1.8	15.2	328	189
2*16	0.7	1.8	17.3	461	245
2*25	0.9	1.8	20.0	659	329
2*35	0.9	1.8	22.0	868	413
2*50	1.0	1.8	19.8	1116	489
2*70	1.1	1.8	22.2	1514	644
2*95	1.1	2.0	25.2	2017	830
2*120	1.2	2.1	28.0	2526	1026
2*150	1.4	2.2	31.2	3139	1286
2*185	1.6	2.3	34.2	3967	1773
2*240	1.7	2.5	38.0	5053	2207

**YJV-0.6/1kV、YJLV-0.6/1kV Table 3**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*1.5	0.7	1.8	10.0	145	/
3*2.5	0.7	1.8	10.8	185	/
3*4	0.7	1.8	11.8	250	175
3*6	0.7	1.8	12.9	320	210
3*10	0.7	1.8	15.7	450	260
3*16	0.7	1.8	18.0	640	340
3*25	0.9	1.8	20.8	940	470
3*35	0.9	1.8	22.9	1260	600
3*50	1.0	1.8	22.6	1670	730
3*70	1.1	1.9	26.5	2280	970
3*95	1.1	2.0	29.8	3020	1240
3*120	1.2	2.1	33.0	3795	1540
3*150	1.4	2.3	36.6	4750	1940
3*185	1.6	2.4	41.6	5654	2248
3*240	1.7	2.6	46.4	7243	2723
3*300	1.8	2.8	50.6	8832	3218

**YJV-0.6/1kV、YJLV-0.6/1kV Table 4**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
4*1.5	0.7	1.8	10.6	139	84
4*2.5	0.7	1.8	11.5	150	107
4*4	0.7	1.8	12.8	253	151
4*6	0.7	1.8	14.0	337	198
4*10	0.7	1.8	17.0	501	291
4*16	0.7	1.8	19.6	778	455
4*25	0.9	1.8	22.8	1160	696
4*35	0.9	1.8	25.2	1554	905
4*50	1.0	1.9	27.0	2148	1235
4*70	1.1	2.0	31.0	2928	1640
4*95	1.1	2.1	34.6	3954	2294
4*120	1.2	2.3	39.0	4925	2865
4*150	1.4	2.4	42.4	6238	3618
4*185	1.6	2.6	48.0	7562	4395
4*240	1.7	2.9	51.2	9660	5603
4*300	1.8	3.1	59.8	11758	6585

**YJV-0.6/1kV、YJLV-0.6/1kV Table 5**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*4+1*2.5	0.7	1.8	12.3	236	180
3*6+1*4	0.7	1.8	13.5	316	210
3*10+1*6	0.7	1.8	16.6	460	380
3*16+1*10	0.7	1.8	19.2	679	375
3*25+1*16	0.9	1.8	22.4	1065	586
3*35+1*16	0.9	1.8	24.6	1368	821
3*50+1*25	1.0	1.8	27.0	1901	1141
3*70+1*35	1.1	1.9	31.0	2585	1463
3*95+1*50	1.1	2.1	35.2	3718	2231
3*120+1*70	1.2	2.2	39.0	4443	2665
3*150+1*70	1.4	2.3	41.8	5326	3190
3*185+1*95	1.6	2.5	47.0	6628	3842
3*240+1*120	1.7	2.7	52.6	8501	5001
3*300+1*150	1.8	2.9	57.9	10320	5679

**YJV-0.6/1kV、YJLV-0.6/1kV Table 6**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*50+2*25	1.0/0.9	1.9	27.7	2155	953
3*70+2*35	1.1/0.9	2.0	32.2	2960	1278
3*95+2*50	1.1/1.0	2.2	36.3	3967	1654
3*120+2*70	1.2/1.1	2.3	40.7	5106	2102
3*150+2*70	1.4/1.1	2.4	43.5	5990	2445
3*185+2*95	1.6/1.1	2.6	48.0	7495	3019
3*240+2*120	1.7/1.2	2.8	53.4	9548	3781

**YJV-0.6/1kV、YJLV-0.6/1kV Table 7**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
4*50+2*25	1.0/0.9	1.9	29.0	2406	1055
4*70+2*35	1.1/0.9	2.1	33.9	3312	1419
4*95+2*50	1.1/1.0	2.2	38.0	4410	1826
4*120+2*70	1.2/1.1	2.4	41.9	5569	2265
4*150+2*70	1.4/1.1	2.5	45.4	6755	2729
4*185+2*95	1.6/1.1	2.7	50.3	8379	3363
4*240+2*120	1.7/1.2	2.9	56.0	10726	4237

**YJV-0.6/1kV、YJLV-0.6/1kV Table 8**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
5*1.5	0.7	1.8	11.4	182	/
5*2.5	0.7	1.8	12.5	239	/
5*4	0.7	1.8	13.8	341	200
5*6	0.7	1.8	15.0	448	252
5*10	0.7	1.8	18.5	677	372
5*16	0.7	1.8	21.3	1000	512
5*25	0.9	1.8	24.0	1504	742
5*35	0.9	1.8	27.5	2027	958
5*50	1.0	1.9	31.4	2815	1233
5*70	1.1	2.1	36.8	3881	1667
5*95	1.1	2.2	40.5	5155	2149
5*120	1.2	2.4	41.0	6400	2606
5*150	1.4	2.5	49.2	7967	3222

**YJV22-0.6/1kV、YJLV22-0.6/1kV Table 9**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*10	0.7	1.8	12.0	290	230
1*16	0.7	1.8	13.1	366	270
1*25	0.9	1.8	14.8	487	335
1*35	0.9	1.8	15.9	600	388
1*50	1.0	1.8	18.3	768	465
1*70	1.1	1.8	20.0	993	566
1*95	1.1	1.8	21.5	1255	676
1*120	1.2	1.8	24.2	4003	788
1*150	1.4	1.8	25.6	1840	924
1*185	1.6	1.8	27.8	2223	1092
1*240	1.7	1.8	30.6	2790	1326
1*300	1.8	1.9	33.4	3400	1570
1*400	2.0	2.0	37.8	4445	1977
1*500	2.2	2.2	42.6	5605	2457

**YJV22-0.6/1kV、YJLV22-0.6/1kV Table 10**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
2*4	0.7	1.8	14.5	366	/
2*6	0.7	1.8	15.6	432	/
2*10	0.7	1.8	18.2	590	472
2*16	0.7	1.8	20.3	763	574
2*25	0.9	1.8	23.0	1001	721
2*35	0.9	1.8	25.0	1250	854
2*50	1.0	1.8	21.8	1535	1002
2*70	1.1	1.9	25.7	1985	1282
2*95	1.1	2.0	28.7	2838	1872
2*120	1.2	2.2	31.5	3445	2203
2*150	1.4	2.3	34.7	4165	2637
2*185	1.6	2.4	38.2	5202	3187
2*240	1.7	2.6	42.0	6445	3932

**YJV22-0.6/1kV、YJLV22-0.6/1kV Table 11**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*2.5	0.7	1.8	13.8	408	/
3*4	0.7	1.8	14.8	505	420
3*6	0.7	1.8	15.9	597	473
3*10	0.7	1.8	18.7	756	571
3*16	0.7	1.8	21.0	983	691
3*25	0.9	1.8	23.8	1343	895
3*35	0.9	1.8	25.9	1721	1086
3*50	1.0	1.8	26.1	2173	1262
3*70	1.1	2.0	30.0	3143	1869
3*95	1.1	2.2	33.3	3979	2237
3*120	1.2	2.3	36.5	4844	2622
3*150	1.4	2.4	40.6	5972	3172
3*185	1.6	2.6	45.6	6941	3595
3*240	1.7	2.7	50.4	8699	4362
*300	1.8	2.9	55.1	10422	5210

**YJV22-0.6/1kV、YJLV22-0.6/1kV Table 12**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
4*1.5	0.7	1.8	13.6	268	/
4*2.5	0.7	1.8	14.5	311	/
4*4	0.7	1.8	15.8	479	383
4*6	0.7	1.8	17.0	586	444
4*10	0.7	1.8	20.0	800	579
4*16	0.7	1.8	22.6	1138	764
4*25	0.9	1.8	25.8	1598	1015
4*35	0.9	1.8	28.7	2049	1232
4*50	1.0	1.9	30.5	2583	1443
4*70	1.1	2.1	34.5	3717	2136
4*95	1.1	2.3	38.6	4767	2592
4*120	1.2	2.4	43.0	5759	3029
4*150	1.4	2.6	46.4	7173	3694
4*185	1.6	2.7	52.5	8513	4292
4*240	1.7	2.9	55.7	10641	5208
4*300	1.8	3.1	64.8	12699	6047

YJV22-0.6/1kV、YJLV22-0.6/1kV Table 13

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*4+1*2.5	0.7	1.8	15.3	472	/
3*6+1*4	0.7	1.8	16.5	579	/
3*10+1*6	0.7	1.8	19.6	762	548
3*16+1*10	0.7	1.8	22.2	1034	705
3*25+1*16	0.9	1.8	25.4	1510	970
3*35+1*16	0.9	1.8	27.6	1865	1139
3*50+1*25	1.0	1.9	30.5	2431	1377
3*70+1*35	1.1	2.0	34.5	3502	2037
3*95+1*50	1.1	2.2	39.2	4823	2656
3*120+1*70	1.2	2.3	43.0	5625	3009
3*150+1*70	1.4	2.5	45.8	6592	3441
3*185+1*95	1.6	2.6	51.5	8045	4087
3*240+1*120	1.7	2.8	57.1	10120	4991
3*300+1*150	1.8	3.0	62.9	11971	5700

YJV22-0.6/1kV、YJLV22-0.6/1kV Table 14

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*50+2*25	1.0/0.9	1.9	31.2	2758	1558
3*70+2*35	1.1/0.9	2.1	35.7	3996	2323
3*95+2*50	1.1/1.0	2.3	40.3	5157	2834
3*120+2*70	1.2/1.1	2.4	44.7	6485	3468
3*150+2*70	1.4/1.1	2.5	47.5	7428	3869
3*185+2*95	1.6/1.1	2.7	52.5	9069	4604
3*240+2*120	1.7/1.2	2.9	57.9	11362	5597

YJV22-0.6/1kV、YJLV22-0.6/1kV Table 15

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
4*50+1*25	1.0/0.9	2.0	32.5	3080	1721
4*70+1*35	1.1/0.9	2.2	37.9	4471	2570
4*95+1*50	1.1/1.0	2.3	42.0	5733	3116
4*120+1*70	1.2/1.1	2.5	45.9	7073	3723
4*150+1*70	1.4/1.1	2.6	49.9	8376	4318
4*185+1*95	1.6/1.1	2.8	54.8	10139	5121
4*240+1*120	1.7/1.2	3.0	61.0	12764	6257



**YJV22-0.6/1kV、YJLV22-0.6/1kV Table 16**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
5*2.5	0.7	1.8	15.5	485	/
5*4	0.7	1.8	16.8	610	469
5*6	0.7	1.8	18.0	744	550
5*10	0.7	1.8	21.5	1036	731
5*16	0.7	1.8	24.3	1410	922
5*25	0.9	1.8	26.5	2015	1252
5*35	0.9	1.8	33.0	2596	1527
5*50	1.0	2.0	34.0	3322	1815
5*70	1.1	2.2	39.3	4791	2686
5*95	1.1	2.4	44.5	6149	3293
5*120	1.2	2.5	49.3	7396	3820
5*150	1.4	2.7	54.1	9024	4560

**YJV-3.6/6kV、YJLV-3.6/6kV Table 17**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*25	2.5	1.8	18.1	565	392
1*35	2.5	1.8	19.0	687	483
1*50	2.5	1.8	20.3	869	555
1*70	2.5	1.8	22.1	1090	656
1*95	2.5	1.8	23.7	1364	767
1*120	2.5	1.8	25.3	1625	879
1*150	2.5	1.8	27.1	1940	1000
1*185	2.5	1.9	28.8	2313	1151
1*240	2.6	2.0	31.3	2885	1382
1*300	2.8	2.1	34.5	3528	1654
1*400	3.0	2.2	38.5	4640	2155
1*500	3.2	2.3	42.3	5735	2634

**YJV-3.6/6kV、YJLV-3.6/6kV Table 18**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*25	2.5	2.1	35.5	1763	1284
3*35	2.5	2.2	38.0	2150	1526
3*50	2.5	2.3	41.2	2720	1754
3*70	2.5	2.4	44.7	3423	2112
3*95	2.5	2.5	48.7	4297	2490
3*120	2.5	2.6	51.7	5135	2883
3*150	2.5	2.7	55.5	6165	3300
3*185	2.5	2.9	58.9	7332	3867
3*240	2.5	3.0	64.7	9146	4628
3*300	2.5	3.3	72.6	11184	5540

YJV22-3.6/6kV、YJLV22-3.6/6kV Table 19

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*25	2.5	1.8	21.9	706	553
1*35	2.5	1.8	22.7	831	613
1*50	2.5	1.8	24.0	999	694
1*70	2.5	1.8	25.8	1232	800
1*95	2.5	1.8	27.4	1500	928
1*120	2.5	1.9	29.0	1788	1055
1*150	2.5	2.0	31.6	2270	1340
1*185	2.5	2.0	33.4	2637	1496
1*240	2.6	2.1	36.0	3202	1741
1*300	2.8	2.2	39.5	3846	2001
1*400	3.0	2.3	43.5	4872	2435
1*500	3.2	2.5	47.5	5907	2845
1*630	3.2	2.6	51.0	7560	3500

YJV22-3.6/6kV、YJLV22-3.6/6kV Table 20

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*25	2.5	2.2	40.5	2767	2273
3*35	2.5	2.3	42.7	3226	2638
3*50	2.5	2.4	46.0	4690	2912
3*70	2.5	2.6	49.7	4518	3358
3*95	2.5	2.7	53.7	5500	3860
3*120	2.5	2.8	56.8	6419	4353
3*150	2.5	2.9	60.6	7521	4818
3*185	2.5	3.0	64.4	8725	5490
3*240	2.6	3.2	70.2	10883	6387
3*300	2.8	3.5	78.5	13197	7645

YJV-6/6kV、6/10kV、YJLV-6/6kV、6/10kV Table 21

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*25	3.4	1.8	20.5	644	482
1*35	3.4	1.8	21.4	769	541
1*50	3.4	1.8	22.7	926	614
1*70	3.4	1.8	24.3	1158	717
1*95	3.4	1.8	25.9	1456	839
1*120	3.4	1.8	27.4	1684	940
1*150	3.4	1.8	29.0	2020	1082
1*185	3.4	1.9	30.8	2391	1228
1*240	3.4	2.0	33.2	2940	1450
1*300	3.4	2.1	36.2	3678	1769
1*400	3.4	2.2	37.9	4565	2119
1*500	3.4	2.3	41.9	5680	2537

**YJV-6/6kV、6/10kV, YJLV-6/6kV、6/10kV Table 22**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*25	3.4	2.2	39.4	1967	1479
3*35	3.4	2.3	42.0	2381	1693
3*50	3.4	2.4	45.0	2892	1951
3*70	3.4	2.5	48.7	3632	2303
3*95	3.4	2.6	52.3	4615	2755
3*120	3.4	2.7	55.7	5361	3118
3*150	3.4	2.9	59.4	6395	3567
3*185	3.4	3.0	63.0	7634	4128
3*240	3.4	3.1	68.2	9342	4850
3*300	3.4	3.3	75.0	11600	5844

**YJV22-6/6kV、6/10kV, YJLV22-6/6kV、6/10kV Table 23**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*25	3.4	1.8	23.3	966	805
1*35	3.4	1.8	24.5	1107	882
1*50	3.4	1.8	25.8	1287	970
1*70	3.4	1.8	28.4	1540	1097
1*95	3.4	1.9	29.4	1863	1242
1*120	3.4	1.9	30.9	2355	1617
1*150	3.4	2.0	33.2	2727	1807
1*185	3.4	2.1	35.0	3156	2002
1*240	3.4	2.2	38.7	3733	2277
1*300	3.4	2.3	41.9	4524	2654
1*400	3.4	2.4	45.3	5432	3030
1*500	3.4	2.5	48.7	6588	3500

**YJV22-6/6kV、6/10kV, YJLV22-6/6kV、6/10kV Table 24**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*25	3.4	2.3	44.7	3097	2609
3*35	3.4	2.4	47.5	3576	2888
3*50	3.4	2.5	50.6	4191	3250
3*70	3.4	2.6	54.3	5056	3727
3*95	3.4	2.8	58.2	6112	4252
3*120	3.4	2.9	61.3	6979	4736
3*150	3.4	3.0	65.5	8175	5347
3*185	3.4	3.1	69.0	9513	6007
3*240	3.4	3.3	74.3	11368	6876
3*300	3.4	3.5	81.0	13888	8132

**YJV-8.7/10kV、8.7/15kV, YJLV-8.7/10kV、8.7/15kV Table 25**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*25	4.5	1.8	22.7	730	568
1*35	4.5	1.8	23.8	858	630
1*50	4.5	1.8	25.0	1020	708
1*70	4.5	1.8	26.6	1256	815
1*95	4.5	1.8	28.5	1561	944
1*120	4.5	1.9	30.0	1805	1061
1*150	4.5	1.9	31.4	2136	1198
1*185	4.5	2.0	33.4	2526	1363
1*240	4.5	2.1	35.8	3084	1596
1*300	4.5	2.2	38.6	3817	1908
1*400	4.5	2.3	42.0	4735	2289
1*500	4.5	2.4	44.6	5850	2720

**YJV-8.7/10kV、8.7/15kV, YJLV-8.7/10kV、8.7/15kV Table 26**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*25	4.5	2.4	45.4	2276	1788
3*35	4.5	2.4	47.8	2703	2015
3*50	4.5	2.5	50.7	3239	2298
3*70	4.5	2.7	54.3	4008	2679
3*95	4.5	2.8	57.6	4989	3129
3*120	4.5	2.9	61.3	5744	3501
3*150	4.5	3.0	64.6	6868	4040
3*185	4.5	3.1	68.3	8094	4588
3*240	4.5	3.3	73.5	9877	5269
3*300	4.5	3.5	80.2	12184	6428

**YJV22-8.7/10kV、8.7/15kV, YJLV22-8.7/10kV、8.7/15kV Table 27**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*25	4.5	1.8	25.9	964	795
1*35	4.5	1.8	27.0	1098	875
1*50	4.5	1.8	28.2	1275	962
1*70	4.5	1.8	29.8	1532	1092
1*95	4.5	1.9	31.7	1857	1236
1*120	4.5	1.9	33.6	2364	1623
1*150	4.5	2.0	35.2	2734	1797
1*185	4.5	2.1	38.4	3157	2004
1*240	4.5	2.2	40.8	3731	2263
1*300	4.5	2.2	44.0	4504	2613
1*400	4.5	2.4	47.6	5445	3044
1*500	4.5	2.4	50.7	6610	3508

**YJV22-8.7/10kV、8.7/15kV, YJLV22-8.7/10kV、8.7/15kV Table 28**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*25	4.5	2.5	50.2	3575	3087
3*35	4.5	2.6	52.6	4096	3408
3*50	4.5	2.7	55.4	4712	3772
3*70	4.5	2.8	59.3	5608	4279
3*95	4.5	2.9	63.0	6692	4832
3*120	4.5	3.0	67.0	7572	5329
3*150	4.5	3.2	70.7	8834	6006
3*185	4.5	3.3	74.3	10166	6660
3*240	4.5	3.5	79.5	12064	7572
3*300	4.5	3.8	86.8	15628	9872

**YJV-12/20kV、YJLV-12/20kV Table 29**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*25	5.5	1.8	24.5	820	658
1*35	5.5	1.8	25.6	951	723
1*50	5.5	1.8	26.9	1118	806
1*70	5.5	1.8	28.5	1372	931
1*95	5.5	1.9	30.3	1683	1066
1*120	5.5	2.0	31.8	1934	1190
1*150	5.5	2.0	33.6	2269	1331
1*185	5.5	2.0	35.2	2667	1504
1*240	5.5	2.2	37.6	3216	1726
1*300	5.5	2.3	40.8	3977	2068
1*400	5.5	2.4	44.0	4888	2442
1*500	5.5	2.5	47.2	5914	2880

**YJV-12/20kV、YJLV-12/20kV Table 30**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
3*25	5.5	2.5	49.2	2615	2127
3*35	5.5	2.6	51.8	3029	2341
3*50	5.5	2.7	54.9	3592	2651
3*70	5.5	2.8	58.4	4378	3049
3*95	5.5	2.9	62.2	5376	3516
3*120	5.5	3.0	65.6	6243	4000
3*150	5.5	3.2	69.3	7324	4496
3*185	5.5	3.3	73.2	8586	5080
3*240	5.5	3.4	78.0	10368	5876

YJV22-12/20kV, YJLV22-12/20kV Table 31

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*25	5.5	1.8	27.3	1279	1132
1*35	5.5	1.9	28.7	1436	1200
1*50	5.5	1.9	30.0	1565	1249
1*70	5.5	2.0	32.0	1838	1387
1*95	5.5	2.1	34.2	2188	1567
1*120	5.5	2.1	35.5	2436	1702
1*150	5.5	2.2	38.6	2813	1876
1*185	5.5	2.2	40.2	3227	2076
1*240	5.5	2.2	42.4	3795	2330
1*300	5.5	2.3	46.0	4653	2792
1*400	5.5	2.4	49.3	5475	3101
1*500	5.5	2.5	52.4	6505	3542

YJV22-12/20kV, YJLV22-12/20kV Table 32

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22	YJLV22
3*25	5.5	2.6	49.2	2615	2127
3*35	5.5	2.7	51.8	3029	2341
3*50	5.5	2.8	54.9	3592	2651
3*70	5.5	2.9	58.4	4378	3049
3*95	5.5	3.0	62.2	5376	3516
3*120	5.5	3.2	65.6	6243	4000
3*150	5.5	3.3	69.3	7324	4496
3*185	5.5	3.4	73.2	8586	5080
3*240	5.5	3.6	78.0	10368	5876

YJV-18/30kV, YJLV-18/30kV Table 33

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*50	8.0	2.0	33.0	1498	1185
1*70	8.0	2.1	34.9	1784	1322
1*95	8.0	2.1	36.5	2121	1482
1*120	8.0	2.2	38.1	2379	1630
1*150	8.0	2.2	40.1	2723	1784
1*185	8.0	2.3	41.5	3147	1985
1*240	8.0	2.3	43.7	3698	2209
1*300	8.0	2.4	46.1	4534	2606
1*400	8.0	2.5	49.4	5377	2930
1*500	8.0	2.7	52.6	6328	3370

**YJV22-18/30kV、YJLV22-18/30kV Table 34**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*50	8.0	2.2	38.3	1972	1661
1*70	8.0	2.2	40.0	2261	1803
1*95	8.0	2.3	41.8	2647	2006
1*120	8.0	2.3	43.2	2923	2179
1*150	8.0	2.4	45.0	3319	2364
1*185	8.0	2.5	47.2	3743	2595
1*240	8.0	2.5	49.4	4364	2889
1*300	8.0	2.6	51.8	5211	3322
1*400	8.0	2.7	55.1	6077	3690
1*500	8.0	2.8	58.7	7156	4144

**YJV-21/35kV、YJLV-21/35kV Table 35**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*50	9.3	2.1	36.4	1625	1313
1*70	9.3	2.1	38.0	1888	1447
1*95	9.3	2.2	39.8	2236	1619
1*120	9.3	2.2	41.3	2494	1750
1*150	9.3	2.3	43.1	2870	1932
1*185	9.3	2.4	44.7	3274	2111
1*240	9.3	2.5	47.1	3876	2386
1*300	9.3	2.5	49.5	4611	2702
1*400	9.3	2.6	52.8	5563	3117
1*500	9.3	2.9	56.0	6700	3580

**YJV22-21/35kV、YJLV22-21/35kV Table 36**

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*50	9.3	2.3	41.1	2421	2101
1*70	9.3	2.3	42.8	2737	2286
1*95	9.3	2.4	44.6	3130	2509
1*120	9.3	2.4	46.4	3392	2660
1*150	9.3	2.5	48.2	3817	2898
1*185	9.3	2.5	49.8	4289	3103
1*240	9.3	2.6	52.2	4923	3436
1*300	9.3	2.7	54.6	5764	3837
1*400	9.3	2.8	58.3	6731	4333
1*500	9.3	2.9	61.5	7973	4869

YJV-26/35kV、YJLV-26/35kV Table 37

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV	YJLV
1*50	10.5	2.2	38.4	1803	1491
1*70	10.5	2.2	40.1	2071	1630
1*95	10.5	2.3	41.9	2419	1802
1*120	10.5	2.3	43.3	2692	1948
1*150	10.5	2.3	45.1	3077	2139
1*185	10.5	2.5	46.7	3487	2324
1*240	10.5	2.5	49.1	4100	2610
1*300	10.5	2.5	51.5	4843	2934
1*400	10.5	2.7	54.8	5810	3364
1*500	10.5	2.9	69.4	7138	4009

YJV22-26/35kV、YJLV22-26/35kV Table 38

芯数*导体标称截面 mm <sup>2</sup> Core no. * nominal cross section area of conductor	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximated outer diameter of cable	电缆近似重量 kg/km Approximated weight of cable	
				YJV22*	YJLV22*
1*50	10.5	2.3	43.05	2705	2400
1*70	10.5	2.4	45.4	3023	2575
1*95	10.5	2.5	47.6	3387	2757
1*120	10.5	2.5	49.0	3661	2902
1*150	10.5	2.6	50.8	4092	3144
1*185	10.5	2.6	52.4	4533	3369
1*240	10.5	2.7	54.8	5248	3732
1*300	10.5	2.8	57.6	6005	4107
1*400	10.5	2.9	60.9	6449	4575
1*500	10.5	3.0	65.2	8423	5332

\* 用于交流系统的单芯铠装电缆的铠装层应采用非磁性金属带绕包；  
单芯钢丝铠装电缆应采用隔磁措施。

Non-magnetic metallic tape wrapping should be adopted as armored layer of single core armored cable for A.C. system. Magnetism-separated measure shall be adopted by single core steel wire armored cable.

## 七、电缆主要技术参数

## Main Technical Parameter of Cable

1、20°C时导体最大直流电阻值应满足GB/T3956标准中的2类导体的规定：

The maximum DC resistance value of conductor at 20°C shall meet the requirement of category 2 conductor stipulated in GB/T3956 standard.

导体标称截面 mm <sup>2</sup> Nominal cross section area of conductor	20°C时导体最大直流电阻 Ω/km Conductor max DC resistance at 20°C			导体标称截面 mm <sup>2</sup> Nominal cross section area of conductor	20°C时导体最大直流电阻 Ω/km Conductor max DC resistance at 20°C		
	铜芯导体 Cu conductor	镀锡导体 Tinned conductor	铝芯导体 Al conductor		铜芯导体 Cu conductor	镀锡导体 Tinned conductor	铝芯导体 Al conductor
1.5	12.1	12.2	/	70	0.268	0.270	0.443
2.5	7.41	7.56	/	95	0.193	0.195	0.320
4	4.61	4.70	/	120	0.153	0.154	0.253
6	3.08	3.11	/	150	0.124	0.126	0.206
10	1.83	1.84	3.08	185	0.0991	0.100	0.164
16	1.15	1.16	1.91	240	0.0754	0.0762	0.125
25	0.727	0.734	1.20	300	0.0601	0.0607	0.100
35	0.524	0.529	0.868	400	0.0470	0.0475	0.078
50	0.387	0.391	0.387	500	0.0366	0.0369	0.0605



2、工频交流耐压试验；

Power Frequency AC voltage withstand test

额定电压 kV Rated voltage kv	0.6/1	1.8/3	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
试验电压 kV Tested voltage kv	3.5	6.5	12.5	21	30.5	42	63	73.5	91
试验条件：环境温度下，5min。 Testing condition: under environment temperature for 5min 试验要求：绝缘应无击穿。 Testing requirement: insulation without puncture									

3、局部放电量应在1.73U<sub>0</sub>电压下测量局部放电量，其数值应不高于以下规定：

Partial discharging capacity shall be tested at the voltage of 1.73U<sub>0</sub>, and its value shall be no more than that stipulated in the following table:

额定电压 kV Rated voltage	3.6/6	6/6 6/10	8.7/10 8.7/15	12/20	18/30	21/35	26/35
放电量 PC	10						

4、电缆载流量(参考值)

Current-loading Capacity of Cable (Reference value)

不同土壤热阻系数下的载流量修正系数

Current-loading capacity correcting coefficient under the heat-resistant coefficient of different soil

电压 kV Voltage	导体标称截面mm <sup>2</sup> Nominal cross section conductor	土壤热阻系数 °C.m/w Soil heat-resitant coefficient				
		0.8	1.0	1.2	1.5	2.0
0.6/1~6/6	≤35	1.06	1.00	0.95	0.88	0.80
	50~150	1.08	1.00	0.94	0.87	0.77
	≥185	1.09	1.00	0.93	0.85	0.76
6/10~12/15	≤35	1.05	1.00	0.95	0.89	0.80
	50~150	1.06	1.00	0.94	0.88	0.79
	≥185	1.07	1.00	0.93	0.86	0.77
12/20~26/35	≤95	1.05	1.00	0.95	0.90	0.82
	≥120	1.06	1.02	0.94	0.83	0.80

不同土壤温度下的载流量修正系数

Current-loading capacity correcting coefficient under different soil temperature

工作温度°C Working temperature	土壤温度°C Soil temperature					
90°C	10	15	20	25	30	35
修正系数 Correcting coefficient	1.11	1.07	1.04	1.00	0.96	0.92

4.1、低压交联电力电缆 (0.6/1kV)

XLPE Power Cable (0.6/1kV)

工作温度°C Working temperature	空气温度°C Air temperature							
90°C	10	15	20	25	30	35	40	45
修正系数 Correcting coefficient	1.18	1.13	1.09	1.04	1.00	0.95	0.90	0.84

导体材质 Conductor material	导体截面 mm <sup>2</sup> Cross section area of conductor	非铠装型电缆 Unarmoured Cable						铠装型电缆 Armoured Cable					
		单芯 Single core			三芯 3cores			三芯 3cores					
		空气 Air		土壤 Oil		空气 Air		土壤 Oil		空气 Air		土壤 Oil	
		○○○	○○	自然土壤	一般土壤	2.0	1.0	二芯 2 cores	三~五芯 3~5 cores	二芯 2 cores	三~五芯 3~5 cores		
铜导体 Copper Conductor	1.5	-	-	-	-	-	-	-	-	-	-		
	2.5	41	31	42	39	-	39	-	-	45	35		
	4	54	41	55	50	37	51	-	-	59	50		
	6	58	52	69	62	47	64	-	-	74	60		
	10	93	71	92	82	65	86	75	64	100	85		
	16	120	92	115	105	84	110	97	83	135	110		
	25	155	120	150	135	110	140	125	110	165	140		
	35	195	150	180	160	135	170	155	135	200	170		
	50	235	180	215	190	170	205	190	165	240	200		
	70	295	230	265	230	215	250	245	210	295	245		
	95	370	285	320	275	265	300	300	260	355	300		
	120	430	335	360	315	310	345	350	305	405	335		
150	495	385	410	355	350	385	400	345	455	380			
185	570	450	460	400	405	435	460	395	515	430			
240	680	535	535	460	480	500	-	465	-	500			
300	790	620	605	520	555	565	-	535	-	565			
400	920	720	685	590	640	640	-	395	-	650			
500	1080	835	775	665	-	-	-	-	-	-			
铝导体 Al Conductor	10	71	97	48	56	81	96	49	55				
	16	121	162	82	92	133	159	82	90				
	25	130	165	85	93	140	163	85	92				
	35	160	199	102	111	170	196	104	110				
	50	195	235	123	131	205	272	124	129				
	70	239	289	152	159	250	284	153	158				
	95	298	348	184	190	308	343	185	188				
	120	340	398	213	216	361	392	214	213				
	150	392	445	241	240	404	439	242	237				
	185	459	505	277	271	469	497	277	267				
	240	539	589	326	312	549	578	325	308				
	300	629	664	372	351	636	654	-	-				
400	731	762	-	-	741	751	-	-					
500	845	870	-	-	858	858	-	-					

\* 直埋深度 : 100cm

Depth of direct burning is 100cm

#### 4.2 中压交联电力电缆 (6kV~35kV)

#### XLPE Power Cable (6kV~35kV)

不同空气温度下的载流量修正系数

Current-loading capacity correcting coefficient under different air temperature

工作温度℃ Working temperature	空气温度℃ Air temperature							
90℃	10	15	20	25	30	35	40	45
修正系数 Correcting coefficient	1.26	1.22	1.18	1.13	1.09	1.04	1.00	0.94

(空气中)

(In the air)

导体截面 mm <sup>2</sup> Conductor cross section	YJV、YJY					YJLV、YJLY				
	3.6/6kV~12/20kV			18/20kV~26/35kV		3.6/6kV~12/20kV			18/20kV~26/35kV	
	单芯 Single core		三芯 3 cores	单芯 Single core		单芯 Single core		三芯 3 cores	单芯 Single core	
	○○○	⊗		○○○	⊗	○○○	⊗		○○○	⊗
25	165	140	133	-	-	130	110	101	-	-
35	205	170	161	-	-	155	135	120	-	-
50	245	205	190	245	220	190	160	147	190	170
70	305	260	240	305	270	235	200	180	235	210
95	370	315	285	370	330	290	245	221	285	255
120	430	360	322	425	375	335	280	253	330	290
150	490	410	367	485	425	380	320	285	3756	330
185	560	470	418	555	485	435	365	326	430	380
240	665	555	490	650	560	515	435	382	505	435
300	765	640	555	745	650	595	500	440	580	510
400	890	745	-	870	760	695	585	-	680	595
500	1030	855	-	1000	875	810	680	-	790	690

注：1、空气温度为 40℃；

2、单芯电缆平型排列时，相邻电缆间的距离等于电缆外径。

Note：1. Air temperature is 40℃.

2. Distance between two close cables amount to outer diameter of cable when being arrayed in parallel for cable with single core.

(空气中)

(In the air)

导体截面 mm <sup>2</sup> Conductor cross section	YJV、YJY					YJLV、YJLY				
	3.6/6kV~12/20kV			18/20kV~26/35kV		3.6/6kV~12/20kV			18/20kV~26/35kV	
	单芯 Single core		三芯 3 cores	单芯 Single core		单芯 Single core		三芯 3 cores	单芯 Single core	
	○○○	⊗		○○○	⊗	○○○	⊗		○○○	⊗
25	160	150	147	-	-	120	115	114	-	-
35	190	180	180	-	-	145	135	132	-	-
50	225	215	212	225	215	175	160	158	175	165
70	275	265	262	275	265	215	200	198	215	200
95	330	315	312	330	315	255	240	237	255	240
120	375	360	358	375	360	290	270	267	290	270
150	425	405	400	420	400	330	305	300	325	305
185	480	455	451	475	455	370	345	341	370	345
240	555	530	528	555	525	435	400	396	430	400
300	630	595	590	630	595	490	455	450	490	455
400	725	680	-	720	680	565	520	-	565	525
500	825	765	-	825	775	650	595	-	645	600

注：1、土壤温度为 25℃，土壤热阻系数为 1.0℃·m/w；

2、单芯电缆平型排列时，相邻电缆间的距离等于电缆外径；

3、铠装型电缆的载流量值可参照非铠装电缆，比非铠装电缆略小。

Note：1. Soil temperature is 25℃. Heat-resistant coefficient of soil is 1.0 C.m/w.

2. Distance between two close cables amount to outer diameter of cable when being arrayed in parallel for cable with single core.

3. Current-loading capacity of armoured cable please refer to that of unarmoured cable, which is relevant smaller compared with that of unarmoured cable.