电力电缆

选型样本

35kV及以下交联聚乙烯绝缘电力电缆
XLPE Insulation Power Cable of 35kv or Lower
0.6/1kV及以下聚氯乙烯绝缘及护套电力电缆
PVC Insulation & Sheath Power Cable of 0.6/1kv or Lower
通信电源用电力软电缆
Power Flexible Cable for Telecommunication Power supply Application
金属屏蔽电力电缆
Metal shielding Power Cable

电力电缆

35kV及以下交联聚乙烯绝缘电力电缆
35 kV or Lower 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，长期工作温度高（90℃）等特点。

The cable is used to transmit power on the power transmission and distribution line of A.C. 50Hz, rated voltage 35 KV or lower. 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 high temperature allowance for long term working(90℃) as well.

一、生产执行标准

GB/T12706.1-2002~ GB/T12706.3-2002《额定电压1kV（Um=1.2 kV）到35kV（Um=40.5 kV）挤包绝缘电力电缆》，也可按用户需要，采用国际电工委员会IEC60502-1997标准生产。

Executive standard

As section “extruded insulation power cable with rated voltage from 1kV（Um=1.2 kV）to 35kV（Um=40.5 kV）” stipulated in GB/T12706.1-2002~ GB/T12706.3-2002 or IEC60502-1997 according to the requirement of the customer.

二、使用特点

1、电缆导体的允许长期最高工作温度为90℃。

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℃。

3、电缆敷设时的环境温度不得低于0℃。

4、电缆的最小弯曲半径：三芯电缆不小于电缆外径的15倍；单芯电缆不小于电缆外径的20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。

Working Condition

1、Long-term working temperature by cable conductor is 90℃.

2、Max. temperature of cable conductor shall be no more than 250℃ during short circuit (the longest lasting time shall be no more than 5 seconds).

3、Environment temperature for installation is no less than 0℃.

4、Min bending radium of cable:

It is no less than 15 times that of cable outer diameter for cable with three cores.

It is no less than 20 times that of cable outer diameter for cable with single core.

5、A.C. rated voltage U0/U of cable is 0.6/1kV~26/35kV.

U0: rated A.C. voltage of conductor to earth OR between metallic shielding for cable designing, which is called phrase voltage.

U: rated A.C. voltage between conductors for cable designing, which is called wire voltage.

Um: Max endurable value of “Max system voltage” for cable

三、电缆型号名称及适用场合

Type, Description and Application Occasion

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 armor, 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: at least 0.7m above earth), 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	

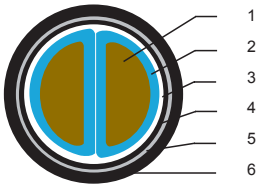
电力电缆

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“ZR-”表示。

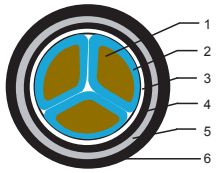
Note:1: We also produce steel wire armored cross-linked power cable such as YJV32、YJLV32、YJV33、YJLV33 according to the requirement of the customer.
2: Prefix “ZR” (flame retardant type) shall be added to the original type when flame retardant type cable is needed.

四、电缆结构示意图

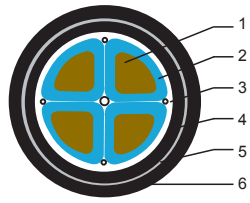
The Figure of Cable Structure



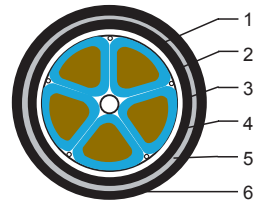
1kv 2芯铠装电缆（≥35mm²）
1kv 2 cores armored cable(≥35mm²)



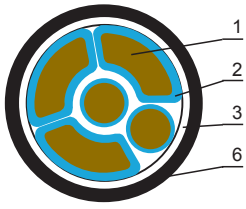
1kv 3芯铠装电缆（≥50mm²）
1kv 3 cores armored cable(≥50mm²)



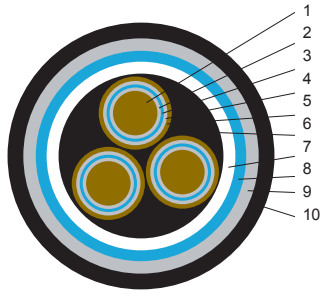
1kv 4芯铠装电缆（≥50mm²）
1kv 4 cores armored cable(≥50mm²)



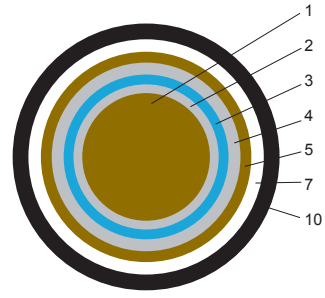
1kv 5芯铠装电缆（≥70mm²）
1kv 5 cores armored cable(≥70mm²)



1kv 3+2芯电缆（≥70mm²）
1kv 3+2 core cable（≥70mm²）



3.6/6kV及以上3芯铠装电缆
3.6/6kV or above armored cable with three cores



3.6/6kV及以上单芯电缆
3.6/6kV or above cable with single core

1-导体 2-绝缘 3-绕包层 4-内衬层 5-铠装层 6-外护套
1. conductor 2. insulation 3. wrapping layer 4. inner layer
5. armored layer 6. outer sheath

1-导体 2-内屏蔽3-绝缘4-外屏蔽5-金属屏蔽6-填充7-绕包层8-内衬层9-铠装层10-外护套
1.conductor 2.inner shielding 3.insulation 4.outer shielding
5.metallic shielding 6.filling 7.wrapped layer 8. inner layer
9.armored layer 10. outer sheath

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	1.5~500	10~400	25~500	25~500	25~500	35~500	50~500	50~500	50~500
		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	10~500	10~400	25~500	25~500	25~500	35~500	50~500	50~500	50~500
		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	/	/	/	/	/	/	/	/

电力电缆

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 mm² 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	2.2	37.8	4950	1845

YJV-0.6/1kV、YJLV-0.6/1kV Table 2

芯数*导体标称截面mm² 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	1.9	25.2	2017	830
2*120	1.2	2.0	28.0	2526	1026
2*150	1.4	2.1	31.2	3139	1286
2*185	1.6	2.3	34.2	3967	1773
2*240	1.7	2.4	38.0	5053	2207

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YJV-0.6/1kV、YJLV-0.6/1kV Table 3

芯数*导体标称截面mm² 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	1.8	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	2.2	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	2.7	50.6	8832	3218

YJV-0.6/1kV、YJLV-0.6/1kV Table 4

芯数*导体标称截面mm² 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	1.8	27.0	2148	1235
4*70	1.1	1.9	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	2.5	48.0	7562	4395
4*240	1.7	2.8	51.2	9660	5603
4*300	1.8	3.0	59.8	11758	6585

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YJV-0.6/1kV、YJLV-0.6/1kV Table 5

芯数*导体标称截面mm² 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	2.0	35.2	3718	2231
3*120+1*70	1.2	2.1	39.0	4443	2665
3*150+1*70	1.4	2.3	41.8	5326	3190
3*185+1*95	1.6	2.4	47.0	6628	3842
3*240+1*120	1.7	2.6	52.6	8501	5001
3*300+1*150	1.8	2.8	57.9	10320	5679

YJV-0.6/1kV、YJLV-0.6/1kV Table 6

芯数*导体标称截面 mm² core no. * nominal cross section area of conductor	绝缘厚度mm 相/副 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	1.8	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	2.1	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	2.5	48.0	7495	3019
3*240+2*120	1.7/1.2	2.7	53.4	9548	3781

YJV-0.6/1kV、YJLV-0.6/1kV Table 7

芯数*导体标称截面 mm² core no. * nominal cross section area of conductor	绝缘厚度mm 相/副 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+1*25	1.0/0.9	1.9	29.0	2406	1055
4*70+1*35	1.1/0.9	2.1	33.9	3312	1419
4*95+1*50	1.1/1.0	2.2	38.0	4410	1826
4*120+1*70	1.2/1.1	2.3	41.9	5569	2265
4*150+1*70	1.4/1.1	2.4	45.4	6755	2729
4*185+1*95	1.6/1.1	2.6	50.3	8379	3363
4*240+1*120	1.7/1.2	2.8	56.0	10726	4237

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YJV-0.6/1kV、YJLV-0.6/1kV Table 8

芯数*导体标称截面 mm² 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	26.0	1504	742
5*35	0.9	1.9	29.5	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	2.3	41.4	5155	2149
5*120	1.2	2.4	44.8	6400	2606
5*150	1.4	2.5	49.6	7967	3222

YJV22-0.6/1kV、YJLV22-0.6/1kV Table 9

芯数*导体标称截面 mm² 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	1.9	27.8	2223	1092
1*240	1.7	2.0	30.6	2790	1326
1*300	1.8	2.1	33.4	3400	1570
1*400	2.0	2.2	37.8	4445	1977
1*500	2.2	2.4	42.6	5605	2457

YJV22-0.6/1kV、YJLV22-0.6/1kV Table 10

芯数*导体标称截面 mm² 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	2.1	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

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YJV22-0.6/1kV、YJLV22-0.6/1kV Table 11

芯数*导体标称截面 mm² 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	1.9	26.1	2173	1262
3*70	1.1	2.0	30.0	3143	1869
3*95	1.1	2.1	33.3	3979	2237
3*120	1.2	2.2	36.5	4844	2622
3*150	1.4	2.4	40.6	5972	3172
3*185	1.6	2.5	45.6	6941	3595
3*240	1.7	2.7	50.4	8699	4362
3*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 mm² 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	298	/
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	1.9	28.7	2049	1232
4*50	1.0	2.0	30.5	2583	1443
4*70	1.1	2.1	34.5	3717	2136
4*95	1.1	2.3	38.6	4768	2592
4*120	1.2	2.4	43.0	5759	3029
4*150	1.4	2.5	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 mm² 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	2.4	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

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YJV22-0.6/1kV、YJLV22-0.6/1kV Table 14

芯数*导体标称截面 mm² core no. * nominal cross section area of conductor	绝缘厚度mm 相/副 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	2.0	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 mm² core no. * nominal cross section area of conductor	绝缘厚度mm 相/副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	2.4	42.0	5733	3116
4*120+1*70	1.2/1.1	2.4	45.9	7073	3723
4*150+1*70	1.4/1.1	2.5	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 mm² 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	1.9	29.5	2015	1252
5*35	0.9	2.0	33.0	2596	1527
5*50	1.0	2.1	34.9	3322	1815
5*70	1.1	2.2	40.8	4791	2686
5*95	1.1	2.4	45.4	6149	3293
5*120	1.2	2.5	49.3	7396	3820
5*150	1.4	2.6	54.1	9024	4560

YJV-3.6/6kV、YJLV-3.6/6kV Table 17

芯数*导体标称截面 mm² 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV	YJLV
1*25	2.5	1.6	18.1	565	392
1*35	2.5	1.6	19.0	687	483
1*50	2.5	1.6	20.3	869	555
1*70	2.5	1.7	22.1	1090	656
1*95	2.5	1.7	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	34.1	3528	1654
1*400	3.0	2.2	37.8	4640	2155
1*500	3.2	2.3	41.3	5735	2634

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YJV-3.6/6kV、YJLV-3.6/6kV Table 18

芯数*导体标称截面 mm² 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV	YJLV
3*25	2.5	2.1	36.0	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	2.8	55.5	6165	3300
3*185	2.5	2.9	58.9	7332	3867
3*240	2.6	3.0	64.7	9146	4628
3*300	2.8	3.2	70.6	11184	5540

YJV22-3.6/6kV、YJLV22-3.6/6kV Table 19

芯数*导体标称截面 mm² 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 approximate 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	38.7	3846	2001
1*400	3.0	2.3	42.7	4872	2435
1*500	3.2	2.4	46.2	5907	2845

YJV22-3.6/6kV、YJLV22-3.6/6kV Table 20

芯数*导体标称截面 mm² 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV22	YJLV22
3*25	2.5	2.3	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	3.3	76.2	13197	7645

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

芯数*导体标称截面 mm² 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV	YJLV
1*25	3.4	1.8	20.3	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	2.0	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 mm² 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 approximate 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	2.8	59.4	6395	3567
3*185	3.4	2.9	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 mm² 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 approximate 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

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

芯数*导体标称截面 mm^2 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV22	YJLV22
3*25	3.4	2.4	44.7	3097	2609
3*35	3.4	2.5	47.5	3576	2888
3*50	3.4	2.5	50.6	4191	3250
3*70	3.4	2.7	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^2 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 approximate 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	1.8	30.0	1805	1061
1*150	4.5	1.8	31.4	2136	1198
1*185	4.5	1.9	33.4	2526	1363
1*240	4.5	2.0	35.8	3084	1594
1*300	4.5	2.1	38.6	3817	1908
1*400	4.5	2.2	42.0	4735	2289
1*500	4.5	2.3	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^2 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 approximate 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	2.5	47.8	2703	2015
3*50	4.5	2.6	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	3.4	80.2	12184	6428

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

芯数*导体标称截面 mm² 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 approximate 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 mm² 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 approximate 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	4713	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	3.1	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	3.4	79.5	12064	7572
3*300	4.5	3.6	86.8	15628	9872

YJV-12/20kV、YJLV-12/20kV　Table 29

芯数*导体标称截面 mm² 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 approximate 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	1.9	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	2.1	37.6	3216	1726
1*300	5.5	2.2	40.8	3977	2068
1*400	5.5	2.3	44.0	4888	2442
1*500	5.5	2.4	47.2	5914	2880

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YJV-12/20kV、YJLV-12/20kV Table 30

芯数*导体标称截面 mm² 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 approximate 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	3.1	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 mm² 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 approximate 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 mm² 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 approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV22	YJLV22
3*25	5.5	2.7	54.1	4035	3547
3*35	5.5	2.8	57.2	4524	3836
3*50	5.5	2.9	60.2	5196	4255
3*70	5.5	3.0	63.7	6082	4753
3*95	5.5	3.1	67.5	7242	5382
3*120	5.5	3.2	70.9	8208	5965
3*150	5.5	3.3	74.8	9392	6564
3*185	5.5	3.4	78.5	10760	7254
3*240	5.5	3.6	85.0	13713	9221

YJV-18/30kV、YJLV-18/30kV Table 33

芯数*导体标称截面 mm² 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 approximate 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	2.6	52.6	6328	3370

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YJV22-18/30kV、YJLV22-18/30kV Table 34

芯数*导体标称截面 mm² 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 approximate 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 mm² 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 approximate 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	2.3	44.7	3274	2111
1*240	9.3	2.4	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	2.7	56.0	6700	3580

YJV22-21/35kV、YJLV22-21/35kV Table 36

芯数*导体标称截面 mm² 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 approximate 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 mm² 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 approximate 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	2.4	45.1	3077	2139
1*185	10.5	2.4	46.7	3487	2324
1*240	10.5	2.5	49.1	4100	2610
1*300	10.5	2.6	51.5	4843	2934
1*400	10.5	2.7	54.8	5810	3364
1*500	10.5	2.8	59.4	7138	4009

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YJV22-26/35kV、YJLV22-26/35kV Table 38

芯数*导体标称截面 mm² Core no.* nominal cross section area of cable	绝缘厚度 mm Insulated thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm approximate outer diameter of cable	电缆近似重量kg/km approximated weight of cable	
				YJV22*	YJLV22*
1*50	10.5	2.3	43.5	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℃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：

Max value of conductor DC resistance at 20℃ shall meet the requirement of category 2 conductor stipulated in GB/T3956 standard.

导体标称截面mm² nominal cross section area of conductor	20℃时导体最大直流电阻Ω/km conductor max DC resistance at 20℃		导体标称截面mm² nominal cross section area of conductor	20℃时导体最大直流电阻Ω/km conductor max DC resistance at 20℃	
	铜芯导体 Cu conductor	铝芯导体 Al conductor		铜芯导体 Cu conductor	铝芯导体 Al conductor
1.5	12.1	/	70	0.268	0.443
2.5	7.41	/	95	0.193	0.320
4	4.61	7.41	120	0.153	0.253
6	3.08	4.61	150	0.124	0.206
10	1.83	3.02	185	0.0991	0.164
16	1.15	1.91	240	0.0754	0.125
25	0.727	1.20	300	0.0601	0.100
35	0.524	0.868	400	0.0470	0.078
50	0.387	0.641	500	0.0366	0.0605

2、工频交流耐压试验

A.C. Voltage Test under Power Frequency

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 Partial Discharging Capacity

应在1.73U0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 1.73U0, 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 Partial discharging capacity	10						

电力电缆

4、电缆载流量　　Current-loading Capacity of Cable

不同土壤热阻系数下的载流量修正系数
Current-loading capacity correcting coefficient under different heat-resistant coefficient of soil

电压KV Voltage	导体标称截面mm² Nominal cross section area of conductor	土壤热阻系数 ℃.m/w Heat-resistant coefficient of soil				
		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℃ Working temperature	土壤温度℃ Soil temperature					
90	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）　　Low voltage XLPE Power Cable（0.6/1kV）

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	1.18	1.13	1.09	1.04	1.00	0.95	0.90	0.84

电力电缆

导体材质 Conductor material	导体截面mm² cross section area of conductor	非铠装型电缆 inarmored cable				铠装型电缆armored cable			
		单芯 single core		三芯 3cores		单芯 single core		三芯 3cores	
		空气air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil	空气 air	土壤 soil
铜导体 Cu conductor	1.5	30	43	21	25	—	—	—	—
	2.5	40	57	28	33	—	—	28	33
	4	53	74	37	44	—	—	37	43
	6	67	94	46	54	—	—	47	54
	10	93	127	63	73	105	125	63	71
	16	124	165	84	94	136	162	84	92
	25	168	213	109	120	180	210	110	118
	35	207	256	132	144	220	253	134	141
	50	252	304	159	169	265	299	161	167
	70	308	372	195	205	322	366	197	203
	95	384	449	237	245	398	442	239	242
	120	439	512	273	278	465	505	275	274
	150	507	575	310	309	521	567	314	305
	185	591	650	355	347	604	639	354	341
	240	694	757	416	399	706	744	414	392
	300	810	855	473	446	819	842	—	—
	400	937	976	—	—	949	962	—	—
	500	1078	1110	—	—	1094	1094	—	—
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 burying is 100cm.

4.2 中压交联电力电缆（3.6kV~35kV）

Middle voltage cross-linked Power Cable （3.6kV~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

电力电缆

空气中 In the air

导体截面mm² cross section area of conductor	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 3cores	单芯 Single core		单芯 single core		三芯 3cores	单芯 single core	
	○○○	品		○○○	品	○○○	品		○○○	品
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.

土壤中 In the soil

导体截面mm² cross section area of conductor	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 3cores	单芯 single core		单芯 single core		三芯 3cores	单芯 single core	
	○○○	品		○○○	品	○○○	品		○○○	品
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℃.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. You can refer to that of inarmored cable about current-loading capacity of armored cable, which is relevantly smaller compared with that of inarmored cable.

电力电缆

0.6/1kV及以下聚氯乙烯绝缘及护套电力电缆
PVC Insulation & Sheath Power Cable of 0.6/1kv or Lower

本产品适用于交流额定电压0.6/1KV的线路中，供输配电能用。

It is used to transmit and distribute power on the power line of A.C. rated voltage 0.6/1kv.

一、生产执行标准

GB/T12706.1等同采用国际电工委员会IEC60502。

Executive standard:

Executive standard:GB/T12706.1（equal to the standard of IEC60502）

二、使用特点

1、电缆导体长期允许工作温度不超过70℃；
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160℃；
3、敷设电缆时的环境温度应不低于0℃。

Working Condition

Long-term working temperature allowed by cable conductor shall be no more than 70℃.

Max. temperature of cable conductor shall be no more than 160℃ during short circuit (the longest lasting time shall be no more than 5 seconds).

Environment temperature for installation shall be no less than 0℃.

三、电缆基本型号名称

Type, Description and Application occasion

型号Type		名称 Description	适用场合 Application occasion
铜Cu	铝Al		
VV	VLV	聚氯乙烯绝缘聚氯乙烯护套电力电缆 Power cable with PVC insulation and sheath	敷设在室内、隧道、电缆沟及管道中，电缆不能承受机械外力作用。 To be laid indoors, in the tunnel, cable furrow or pipe. The cable can not bear mechanical force from outside.
VV22	VLV22	聚氯乙烯绝缘聚氯乙烯护套钢带铠装电力电缆 Power cable with PVC insulation, PVC sheath and steel tape armored	敷设在地下，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, the cable can bear certain mechanical force, but it can not bear great pulling force.

注：1、本公司可根据用户的需要提供阻燃型、耐火型电力电缆产品，订货时在原型号前加“ZR-”表示阻燃型，加“NH-”表示耐火型。
2、本公司也可根据用户的需要，提供VV32型、VLV32型钢丝铠装电力电缆，单芯钢丝铠装电缆应采用隔磁措施。

Note:
1: We also produce flame-retardant fire resistant type power cable according to the requirement of the customer. Prefix “ZR” should be added to the original type of cable in ordering flame retardant cable; prefix “NH-” for fire resistant cable.
2: We also produce VV32, VLV32 type steel wire armored power cable according to the requirement of the customer. Magnetism–separated measure shall be adopted by single core steel wire armored cable.

四、生产范围

Production Scope

型号 Type		芯数 Core number	标称截面mm² Nominal cross section area
铜Cu	铝Al		
VV — VV22	— VLV VLV22	1	1.5~500 2.5~500 10~500
VV — VV22	— VLV VLV22	2	1.5~185 2.5~185 4~185
VV — VV22	— VLV VLV22	3	1.5~300 2.5~300 4~300
VV — VV22	— VLV VLV22	4	2.5~300 2.5~300 4~300
VV VV22	VLV VLV22	3+1	4~300 4~300

注：①本公司可根据用户需要，提供五芯结构电缆产品。
②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。

Note:
1: We also produce cable with five cores according to the requirement of the customer.
2: Non-magnetic metal tape wrapping should be adopted as armored layer for single core armored cable for A.C. system.

电力电缆

五、电缆主要技术参数

1、20℃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。

2、工频交流耐压试验 A.C. Voltage Test

单芯无屏蔽电缆应将其浸入水中1h，在导体和水之间施加试验电压3.5kV/5 min；多芯电缆应依次在每一根绝缘导体对其余导体之间施加试验电压3.5kV/5 min，绝缘均应无击穿。

Main Technical parameter of cable

Max value of conductor DC resistance shall meet the requirement of conductor of category 2 stipulated in GB/T3956 standard at 20℃.

For single core cable without shielding, voltage test of 3.5kV under power frequency is put on for 5 minutes between conductor and water when be immersed in the water for one hour. For multi-core cable, between each insulated conductor and other conductor, voltage test of 3.5kV under power frequency is put on for 5 minutes without puncture of insulation.

六、电缆近似外径及近似重量(表1~表5) Table 1

Approximate outer diameter and weight of cable (from table 1 to table 5) table 1

芯数×标称截面mm² core number x nominal cross section area	电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable		电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable	
		VV	VLV		VV22*	VLV22*
1×1.5	5.8	50	/	/	/	/
1×2.5	6.2	62	47	/	/	/
1×4	7.1	87	63	/	/	/
1×6	7.6	110	75	/	/	/
1×10	8.9	166	96	12.4	346	270
1×16	9.9	234	133	13.4	432	331
1×25	11.7	345	186	15.2	574	414
1×35	12.6	450	229	16.2	692	475
1×50	14.6	585	276	18.1	863	553
1×70	16.3	800	366	19.8	1133	700
1×95	18.5	1065	475	22.0	1432	844
1×120	20.2	1328	586	23.7	1705	962
1×150	22.5	1600	702	26.0	2044	1120
1×185	24.8	1990	850	28.3	2438	1296
1×240	27.8	2546	1060	31.5	3057	1570
1×300	30.7	3140	1292	34.2	3926	2070
1×400	34.7	4127	1651	38.0	5084	2608
1×500	39.0	5259	2016	43.0	6295	2936

*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 metal tape wrapping should be adopted as armored layer for single core armored cable for A.C. system. Magnetic separation measure should be adopted for cable with single conductor and steel wire armor.

Table 2

芯数×标称截面mm² core number x nominal cross section area	电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable		电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable	
		VV	VLV		VV22	VLV22
2×1.5	10.4	118	/	/	/	/
2×2.5	11.3	151	118	/	/	/
2×4	13.0	210	159	16.0	424	374
2×6	13.9	263	192	17.1	494	425
2×10	16.5	394	242	19.8	665	497
2×16	18.6	541	334	21.8	845	638
2×25	22.0	794	468	25.3	1154	827
2×35	24.2	1037	585	27.5	1436	982
2×50	20.3	1236	592	23.6	1580	940
2×70	22.7	1647	745	26.0	2210	1302
2×95	26.2	2189	966	29.1	2800	1530
2×120	28.8	2640	1144	32.6	3400	1850
2×150	32.2	3280	1410	36.2	4150	2198
2×185	35.8	4006	1703	39.5	5025	2592

电力电缆

Table 3

芯数×标称截面mm² core number x nominal cross section area	电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable		电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable	
		VV	VLV		VV22	VLV22
3×1.5	10.6	142	/	/	/	/
3×2.5	11.7	187	139	/	/	/
3×4	13.6	264	189	16.6	489	413
3×6	14.7	335	226	17.7	578	472
3×10	17.4	514	290	20.4	801	560
3×16	19.7	729	418	22.7	1058	743
3×25	23.4	1085	596	26.4	1470	979
3×35	25.8	1430	748	28.8	2148	1370
3×50	25.5	1820	839	28.5	2457	1489
3×70	28.4	2400	1080	31.7	3122	1768
3×95	32.8	3155	1418	36.7	4055	2218
3×120	35.7	3982	1747	39.6	4925	2606
3×150	40.0	4950	2135	44.0	6050	3154
3×185	44.4	6156	2610	48.6	7299	3721
3×240	49.7	7886	3308	53.9	9223	4584
3×300	54.3	9647	4059	58.7	11022	5423

Table 4

芯数×标称截面mm² core number x nominal cross section area	电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable		电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable	
		VV	VLV		VV22	VLV22
4×2.5	12.2	225	166	/	/	/
4×4	15.0	332	231	18.0	581	480
4×6	16.2	430	270	19.2	703	551
4×10	19.7	641	393	22.7	891	637
4×16	22.0	902	499	25.0	1175	771
4×25	26.0	1438	766	29.0	1998	1347
4×35	28.7	1815	919	31.7	2585	1660
4×50	30.4	2380	1091	33.4	3100	1819
4×70	33.8	3202	1398	37.0	4039	2228
4×95	38.2	4300	1860	41.5	5200	2800
4×120	42.0	5269	2186	45.5	6400	3320
4×150	46.4	6554	2748	49.9	7806	3958
4×185	51.2	8090	3325	54.9	9442	4700
4×240	55.3	10355	4056	59.0	11887	5734
4×300	64.5	12776	4950	68.2	14356	6995

Table 5

芯数×标称截面 mm² core number x nominal cross section area	电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable		电缆近似外径mm approximate outer diameter of cable	电缆近似重量kg/km approximate weight of cable	
		VV	VLV		VV22	VLV22
3×4+1×2.5	14.5	310	215	17.5	543	447
3×6+1×4	16.1	403	268	19.1	661	526
3×10+1×6	18.9	600	363	21.9	894	625
3×16+1×10	21.6	858	505	24.6	1195	807
3×25+1×16	25.0	1315	693	28.0	1679	1082
3×35+1×16	27.6	1645	834	30.6	2243	1458
3×50+1×25	29.6	2124	996	32.6	2867	1736
3×70+1×50	33.2	2867	1285	36.2	3698	2099
3×95+1×50	38.0	3824	1664	42.1	4796	2636
3×120+1×70	41.5	4784	2060	45.5	5900	3129
3×150+1×70	44.6	5790	2473	48.4	6921	3623
3×185+1×95	49.7	7164	3050	54.2	8437	4369
3×240+1×120	55.9	9414	3842	60.3	11163	5586
3×300+1×150	61.6	11749	4920	66.0	13465	6445

电力电缆

七、电缆载流量（0.6/1kV）

Current-loading capacity of cable

在空气中敷设

To be laid in the air

1、单芯电缆平行敷设时中心距离：185mm²及以下为电缆直径的2倍；240mm²及以上为90mm。

2、导电线芯最高允许工作温度：70℃，周围环境温度：30℃。

Center distance for laying single core cable in parallel:

185mm² or lower: 2 times that of cable diameter;

240mm² or higher: 90mm

Max working temperature of conductive core is 70℃; Environment temperature is 30℃.

不同空气温度下的载流量修正系数

Current-loading capacity correcting coefficient under different air temperature

空气温度℃ Air temperature	20	25	30	35	40	45
修正系数 Correcting coefficient	1.12	1.06	1.00	0.94	0.87	0.79

0.6/1KV铜导体PVC绝缘PVC护套阻燃或非阻燃电力电缆在空气中敷设长期连续负荷允许载流量

Long-term and continual current-loading capacity in the air for 0.6/1kv flame retardant OR non-flame retardant power cable with Cu conductor, PVC insulation and PVC sheath

在空气中敷设长期连续负荷允许载流量

Long-term and continual current-loading capacity in the air

标称截面 mm² nominal cross section area	长期连续负荷载流量（A） Long-term and continual current-loading capacity											
	无铠装inarmored						铠装armored					
	单芯single core			2 cores	3cores 4cores (3+1)core	5cores (4+1)core (3+2)core	单芯single core			2cores	3cores 4cores (3+1)core	5cores (4+1)core (3+2)core
	2pieces oo	3 pieces ooo	3 pieces 品				2pieces oo	3pieces ooo	3pieces 品			
1.5	28	26	23	20	—	—	28	26	23	—	—	—
2.5	36	33	30	26	—	—	36	33	30	—	—	—
4	47	44	39	37	30		46	44	39	38	31	32
6	60	56	49	44	37	31	60	56	49	45	38	39
10	83	77	68	61	53	38	83	77	68	62	54	55
16	109	101	89	82	69	54	109	101	89	84	70	71
25	138	128	113	104	89	70	138	128	113	106	91	91
35	173	161	142	127	109	91	173	161	142	130	111	112
50	207	193	170	155	132	111	207	193	170	158	135	137
70	264	246	216	190	167	135	264	246	216	194	170	173
95	322	299	264	242	213	170	322	299	264	247	217	221
120	374	348	307	282	242	217	374	348	307	288	247	250
150	431	401	353	322	282	247	431	401	353	328	287	290
185	495	460	406	368	322	288	495	460	406	375	327	330
240	587	546	481	—	385	328	587	546	481	—	392	398
300	673	626	552	—	431	393	673	626	552	—	439	445
400	794	738	652	—	—	440	794	738	652	—	—	—
500	920	854	754	—	—	—	920	854	754	—	—	—

0.6/1KV铝导体PVC绝缘PVC护套阻燃或非阻燃电力电缆在空气中敷设长期连续负荷允许流量

Long-term and continual current-loading capacity in the air for 0.6/1kv flame retardant OR non-flame retardant power cable with Al conductor, PVC insulation and PVC sheath

电力电缆

在空气中敷设长期连续负荷允许载流量
Long-term and continual current-loading capacity in the air

标称截面 mm² nominal cross section area	长期连续负荷载流量（A） Long-term and continual current-loading capacity											
	无铠装inarmored						铠装armored					
	单芯single core			2cores	3cores 4cores (3+1)core	5cores (4+1)core (3+2)core	单芯single core			2cores	3cores 4cores (3+1)core	5cores (4+1)core (3+2)core
	2pieces oo	3pieces ooo	品				2pieces oo	3pieces ooo	品			
2.5	28	26	23	21	17	17	28	26	23	—	—	—
4	37	34	30	28	23	23	37	34	30	28	23	23
6	48	45	40	37	30	31	48	45	40	37	30	31
10	63	59	52	48	40	41	63	59	52	48	40	41
16	84	78	69	63	54	55	84	78	69	63	54	55
25	110	102	90	81	69	70	110	102	90	81	69	70
35	132	123	108	99	85	87	132	123	108	99	85	87
50	161	150	132	121	104	106	161	150	132	121	104	106
70	201	187	165	150	132	135	201	187	165	150	132	135
95	247	230	203	190	161	164	247	230	203	190	161	164
120	288	268	236	219	190	194	288	268	236	219	190	194
150	334	311	274	247	219	223	334	311	274	247	219	223
185	385	358	316	288	247	252	385	358	316	288	247	252
240	454	422	372	—	299	305	454	422	372	—	299	305
300	523	486	429	—	339	346	523	486	429	—	339	346
400	621	578	509	—	—	—	621	578	509	—	—	—
500	725	674	595	—	—	—	725	674	595	—	—	—

直埋敷设

1、单芯电缆非接触敷设时，中心距离为电缆直径的2倍。

2、导电线芯最高允许工作温度：70℃，土壤温度：25℃。

3、土壤热阻系数：1.0℃.m/w，直埋深度：0.8m。

To be laid underground

Center distance shall be 2 times that of cable diameter for contactless installation of single core cable.

Max working temperature of conductive core is 70℃; Soil temperature is 25℃.

Heat-resistant coefficient of soil is 1.0℃.m/w; Depth of direct burying is 0.8m.

不同土壤温度下的载流量修正系数
Current-loading capacity correcting coefficient under different soil temperature

土壤温度℃ Soil temperature	15	20	25	30	35
修正系数 Correcting coefficient	1.11	1.05	1.00	0.94	0.88

0.6/1KV铜导体PVC绝缘PVC护套阻燃或非阻燃电力电缆在土壤中直埋敷设长期连续负荷许载流量

Long-term and continual current-loading capacity for laying underground for 0.6/1kv flame retardant OR non-flame retardant power cable with Cu conductor, PVC insulation and PVC sheath

电力电缆

在土壤中直埋敷设长期连续负荷允许载流量
Long-term and continual current-loading capacity for laying underground directly

标称截面 mm² nominal cross section area	长期连续负荷载流量（A）Long-term and continual current-loading capacity											
	无铠装inarmored						铠装armored					
	单芯single core			2 cores	3 cores 4 cores (3+1)core	5cores (4+1)core (3+2)core	单芯single core			2cores	3cores 4cores (3+1)core	5cores (4+1)core (3+2)core
	2pieces ○○	3pieces ○○○	品				2pieces ○○	3pieces ○○○	品			
1.5	29	27	24	26	22	22	29	27	24	26	22	22
2.5	38	35	31	34	29	30	38	35	31	34	29	30
4	49	46	40	44	38	39	49	46	40	44	38	39
6	61	57	50	56	47	48	61	57	50	56	47	48
10	83	77	68	76	65	66	83	77	68	76	65	66
16	105	98	86	100	84	86	105	98	86	100	84	86
25	135	126	111	125	110	112	135	126	111	125	110	112
35	160	149	131	155	130	133	160	149	131	155	130	133
50	195	181	160	185	155	158	195	181	160	185	155	158
70	240	223	197	230	195	199	240	223	197	230	195	199
95	285	265	234	275	230	235	285	265	234	275	230	235
120	325	302	267	310	260	265	325	302	267	310	260	265
150	365	339	299	350	300	306	365	339	299	350	300	306
185	415	386	340	395	335	341	415	386	340	395	335	341
240	480	446	394	—	390	398	480	446	394	—	390	398
300	545	507	447	—	435	444	545	507	447	—	435	444
400	625	581	513	—	—	—	625	581	513	—	—	—
500	710	660	582	—	—	—	710	660	582	—	—	—

0.6/1KV铝导体PVC绝缘PVC护套阻燃或非阻燃电力电缆在土壤中直埋敷设长期连续负荷允许载流量

Long-term and continual current-loading capacity for laying underground for 0.6/1kv flame retardant OR non-flame retardant power cable with Al conductor, PVC insulation and PVC sheath

在土壤中直埋敷设长期连续负荷允许载流量
Long-term and continual current-loading capacity for laying underground directly

标称截面 mm² nominal cross section area	长期连续负荷载流量（A） Long-term and continual current-loading capacity											
	无铠装inarmored						铠装armored					
	单芯single core			双芯 2 cores	三芯 3 cores 四芯 4cores (3+1)core	五芯5cores (4+1)core (3+2)core	单芯			双芯 2 cores	3 cores 4cores (3+1)core	5cores (4+1)core (3+2)core
	2 pieces ○○	3 pieces ○○○	品				2 pieces ○○	3 pieces ○○○	品			
2.5	30	28	25	26	23	23	30	28	25	26	23	23
4	39	36	32	35	30	31	39	36	32	35	30	31
6	50	47	41	45	39	40	50	47	41	45	39	40
10	64	60	52	59	50	51	64	60	52	59	50	51
16	83	77	68	77	65	66	83	77	68	77	65	66
25	105	98	86	100	84	85	105	98	86	100	84	85
35	125	116	103	120	100	102	125	116	103	120	100	102
50	150	140	123	145	120	122	150	140	123	145	120	122
70	185	172	152	175	150	153	185	172	152	175	150	153
95	220	205	180	210	185	189	220	205	180	210	185	189
120	250	233	205	245	205	209	250	233	205	245	205	209
150	285	265	234	275	230	235	285	265	234	275	230	235
185	320	298	262	310	260	265	320	298	262	310	260	265
240	375	349	308	--	300	306	375	349	308	--	300	306
300	425	395	349	--	340	347	425	395	349	--	340	347
400	490	456	402	--	--	--	490	456	402	--	--	--
500	560	521	459	--	--	--	560	521	459	--	--	--

八、交货长度

按合同要求长度交货，长度计量误差为±0.5%。

Delivery Length

The goods will be delivered according to the contract with length error of ±0.5%.

电力电缆

通信电源用电力软电缆
Power Flexible Cable for telecommunication Power Spply Application

本产品适用于交流额定电压0.6/1KV及以下的电力系统中，作输配电能用。产品除具有聚氯乙烯绝缘电缆已有的优良性能外，还具有柔软、易弯曲等特点。

It is used to transmit and distribute power of A.C rated voltage 0.6/1KV or lower for power system. It has not only better performance of PVC insulation power cable, but also advantages of softness and flexibility as well.

一、生产执行标准 YD/T1173-2001

Executive standard: YD/T1173-2001

二、型号及名称

Type and Description

型号Type	名称Description
RV	铜芯聚氯乙烯绝缘电力软电缆 Soft power cable with Cu core, PVC insulation
RVZ	铜芯聚氯乙烯绝缘阻燃型电力软电缆 Soft power cable with Cu core, PVC insulation, flame retardance
RVV	铜芯聚氯乙烯绝缘聚氯乙烯护套电力软电缆 Soft power cable with Cu core, PVC insulation and sheath
RVVZ	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃型电力软电缆 Soft power cable with Cu core, PVC insulation & sheath, flame retardance
RVV22	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力软电缆 Soft power cable with Cu core, PVC insulation & sheath, steel tape armor
RVVZ22	铜芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套阻燃型软电缆 Soft power cable with Cu core, PVC insulation & sheath, steel tape armor, flame retardance

三、生产范围

Production Scope

型号 Type	芯数 Core number	标称截面mm² Nominal cross section area
RV RVZ RVV RVVZ	1	1.5~400
RVV RVVZ RVV22 RVVZ22	2	1.5~185
RVV RVVZ RVV22 RVVZ22	3	1.5~300 4~300
RVV RVVZ RVV22 RVVZ22	4	4~185
RVV RVVZ RVV22 RVVZ22	3+1	4~300 4~240
RVV RVVZ RVV22 RVVZ22	3+2	4~240 10~240

四、使用条件

1、电缆的导体长期允许最高工作温度为70℃；

2、电缆敷设时最低环境温度为0℃；

3、电缆允许弯曲半径：非铠装电缆不小于电缆外径的8倍；铠装型电缆不小于电缆外径的20倍；

4、短路时（最长持续时间不超过5S），电缆导体的最高工作温度为160℃；

Working Condition

1: Max temperature of cable conductor for Long-term working is 70℃.

2: Min. environment temperature for installing cable is 0℃.

3: Bending radium allowed by cable:

It will be no less than 8 times that of cable O.D for inarmored cable and 20 times that of cable O.D for armored cable.

4: Max. working temperature of cable conductor is 160℃ during short circuit(the longest lasting time shall be no more than 5 seconds).

五、主要技术参数

1、20℃时导体最大直流电阻值应满足下面的规定：

Main Technical Parameter

Max DC resistance value of conductor at 20℃ shall meet the requirements of the following table:

电力电缆

标称截面mm² Nominal cross section area	1.5	2.5	4	6	10	16	25	35	50
20℃时导体最大直流电阻Ω/km Max. DC resistance of conductor at 20℃	13.3	7.98	4.91	3.30	1.91	1.21	0.780	0.554	0.389
标称截面mm² Nominal cross section area	70	95	120	150	185	240	300	400	
20℃时导体最大直流电阻Ω/km Max. DC resistance of conductor at 20℃	0.272	0.206	0.161	0.129	0.106	0.0801	0.0641	0.0495	

2、70℃时最小绝缘电阻　　Min insulation resistance at 70℃

标称截面mm² Nominal cross section area	70℃时最小绝缘电阻MΩ.km Min insulation resistance at 70℃	标称截面mm² Nominal cross section area	70℃时最小绝缘电阻MΩ.km Min insulation resistance at 70℃
1.5	0.010	70	0.0032
2.5	0.009	95	0.0032
4	0.007	120	0.0029
6	0.006	150	0.0029
10	0.0056	185	0.0029
16	0.0046	240	0.0028
25	0.0044	300	0.0028
35	0.0038	400	0.0026
50	0.0037	/	/
试验条件：Testing condition ①验长度：5m。 ②浸水时间：1h。 ③水温：70℃。 1: Testing length: 5m. 2: Time for immersion in the water is one hour. 3: Temperature of water is 70℃			

3、工频交流耐压试验 成品电缆应经受下表规定的交流50Hz耐电压试验而不应击穿。

A.C. voltage test under power frequency
The finished cable shall bear A.C. voltage test of 50Hz listed in the following table without puncture.

电缆芯数 Core No.	试验方法 Testing method	试样长度m Sample length	电压V Voltage		持续时间 Lasting time
			额定电压 Rated voltage	试验电压 Testing voltage	
单芯* Single core	浸水1h Immersing in the water for 1h	制造长度 Manufacturing length	450/750	2500	5min
多芯及铠装 Multi-core and armoring	相间 interphase		600/1000	3500	

* 适用于RV型及RVZ型。

*Suitable for RV type and RVZ type

六、电缆近似外径及载流量

与同规格的普通聚氯乙烯绝缘聚氯乙烯护套电力电缆相比，电缆的外径一般增加：导体截面为95mm2及以下，外径增加2~10mm；导体截面为120mm2及以上，外径增加12~20mm；电缆的重量一般增加4%~10%。软电力电缆允许的载流量可参照同规格VV系列电力电缆的载流量值，下降6%~10%。

Approximate outer diameter and current-loading capacity of cable

By comparing with common power cable of the same specification with PVC insulation and sheath, cable outer diameter is bigger by 2~10mm for cable with cross section of 95 95mm2 or lower and by 12~20mm for cable with cross section of 120 mm2 or higher. And cable weight generally remains heavier by 4%~10%.About current-loading capacity allowed by soft power cable, you can refer to that of VV series power cable of the same specification with a drop of 6%~10%.

七、交货长度

根据双方协议，允许任何长度的电缆交货。长度计量误差不超过±0.5%。

Delivery Length

Delivery length of cable depends on both agreements with length error allowance of ±0.5%.

电力电缆

金属屏蔽电力电缆
Metallic Shielding Power Cable

本产品适用于额定电压0.6/1KV及以下的电力线路中作输送电能用。产品具有较强的电磁干扰、抗雷击及均衡电位，改善供电品质的特性，特别适宜计算机中心、航空航天监控中心，智能大楼等精密电子装置场所。

It is used for power transmission on power lines of rated voltage 0.6/1KV or lower. It has strong resistant characters against electromagnetic interference, thunder strike and even electric potential, improving power supply quality. It is especially suitable to place with precision electronic devices such as computer center, space & aviation supervision center and intellectual buildings etc.

一、生产执行标准　GB/T12706.1-2002

Executive standard:　GB/T12706.1-2002

二、型号名称

Type and Description

型号 Type		名称 Description
铜 Cu	铝Al	
VVP VVP22	VLVP VLVP22	铜、铝芯聚氯乙烯绝缘金属屏蔽（钢带铠装）聚氯乙烯护套电力电缆 Power cable with Cu/Al core, PVC insulation, metallic shielding(steel tape armor), PVC sheath
YJVP YJVP22	YJLVP YJLVP22	铜、铝芯交联聚乙烯绝缘金属屏蔽（钢带铠装）聚氯乙烯护套电力电缆 Power cable with Cu/Al core, XLPE insulation, metallic shielding(steel tape armor), PVC sheath

注：1、该产品可按用户的使用要求，设计成具有阻燃性能或耐火性能的产品。订货时只需在原型号前加“ZR-”表示阻燃型，加“NH-”表示耐火型；
2、电缆的金属屏蔽可按用户要求有两种形式：金属丝编织或金属带绕包。
3、如需软芯导体的电缆，应在原型号后加字母“R”。

Note: 1: We also produce cable with flame resistant performance or fire resistant performance according to the requirement of customer. Prefix “ZR-” should be added to the original type for flame retardant cable and “NH-” added for fire-resistant cable.
2: There are two kinds of metallic shielding. One is metallic wire braiding shielding. The other is metallic tape wrapped shielding.
3: Prefix “R” should be added to the original type for ordering cable with soft conductor.

三、规格

Specification

型号Type		芯数 Core number	标称截面 Nominal cross section area
铜Cu	铝Al		
VVP YJVP	VLVP YJLVP	1	4~300
VVP VV22P YJVP YJV22P	VLVP VLV22P YJLVP YJLV22P	2	4~185
		3	4~300
		3+1	
		4	4~185

四、使用条件

Working Condition

1、导体最高长期允许工作温度：聚氯乙烯绝缘为70℃；交联聚乙烯绝缘为90℃。

2、电缆短路时（最长持续时间不超过5S），导体的最高温度不超过：聚氯乙烯绝缘为160℃；交联聚乙烯绝缘为250℃。

3、敷设时环境温度应不低于0℃。

4、电缆允许弯曲半径为：铠装电缆不小于电缆外径的20倍；非铠装电缆不小于电缆外径的15倍；软芯导体电缆不小于电缆外径的10倍。

1: Max long-term working temperature allowed by conductor is 70℃ for cable with PVC insulation, 90℃ for cable with XLPE insulation.

2: Max temperature of conductor is no higher than 160℃ for cable with PVC insulation, 250℃ for cable with XLPE insulation during short circuit (The longest lasting time is no more than 5s).

3: Environment temperature for installation is not lower than 0℃.

4: Bending radius allowed by cable is no less than 20 times that of cable outer diameter for armored cable, 15 times that for inarmored cable, 10times that for cable with soft conductor.

五、电缆近似外径

Approximate Outer Diameter of Cable

电力电缆

VVP型 、VLVP型电缆外径分别在VV型、VLV型电缆外径的基础上增加1~1.5mm。

YJVP型 、YJLVP型电缆外径分别在YJV型、YJLV型电缆外径的基础上增加1~1.5mm。

VV22P型 、VLV22P型电缆外径分别在VV22型、VLV22型电缆外径的基础上增加1~1.5mm。

YJV22P型 、YJLV22P型电缆外径分别在YJV22型、YJLV22型电缆外径的基础上增加1~1.5mm。

Outer diameter value of VVP type and VLVP type cable should be added by 1~1.5mm on the basis of that of VV type and VLV type cable.

Outer diameter value of YJVP type and YJLVP type cable should be added by 1~1.5mm on the basis of that of YJV type and YJLV type cable.

Outer diameter value of VV22P type and VLV22P type cable should be added by 1~1.5mm on the basis of that of VV22 type and VLV22 type cable.

Outer diameter value of YJV22P type and YJLV22P type cable should be added by 1~1.5mm on the basis of that of YJV22 type and YJLV22 type cable.

六、主要技术参数

1、20℃时导体直流电阻

参见0.6/1KV聚氯乙烯绝缘及护套电力电缆。

2、绝缘电阻

Main Technical Parameter

1: DC resistance of conductor at 20℃

2: Insulated resistance

序号 No.	性能 Performance	聚氯乙烯绝缘 PVC insulation	交联聚乙烯绝缘 XLPE insulation
1	体积电阻率(20℃) 电缆工作温度时 Volume resistance ratio(20℃) under cable working temperature	10^{13} 10^{10}	-- 10^{10}
2	绝缘电阻常数(20℃) 电缆工作温度时 Insulation resistance constant (20℃) under cable working temperature	36.7 0.037	-- 3.67

3、交流电压试验成品电缆经受交流50Hz、5min、3.5kV的电压试验绝缘应无击穿。

4、耐火型电缆的耐火特性应符合IEC60331或GB12666.6中的A类或B类耐火试验要求。

5、阻燃型电缆的阻燃性能应符合IEC60332或GB/T18380.3 标准中规定的A、B或C三类中任一类别阻燃性能要求。

3: Finished cable should endure A.C voltage test of 3.5kV, AC 50Hz for 5min without puncture.

4: Fire resistant performance of fire resistance cable should meet testing requirement of category A or B stipulated in IEC60331 or GB12666.6 standard.

5: Flame retardant performance of Flame retardant cable should meet testing requirement of category A or B or C stipulated in IEC60332 or GB/T18380.3standard.

七、交货长度

1、根据双方协议，允许任何长度的电缆交货。

2、长度计量误差不超过±0.5%。

Delivery Length

Delivery length of cable depends on both agreements with length error allowance of ±0.5%.