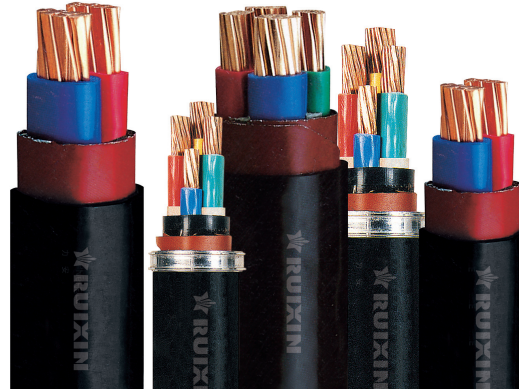


## 0.6/1kV 聚氯乙烯绝缘护套电力电缆 PVC insulated and PVC sheathed power cable



### ※用途 Application

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、阻燃电力电缆适用于要求阻燃的场合。耐火电力电缆适用于高层建筑、大型商场等人口密集地区。

It is used to transmit and distribute power on the power line of A.C rated voltage 0.6/1kV. The flame-retardant power cable is suitable for environment with demand on flame-retardant performance Fire-resistance power cable is used in the environment with high demand on fire-resisting performance such as high-rise building, the big market.

### ※型号、名称和使用范围(见表 1) Model, name and application(see table 1)

型号 Model		名称 Name	适用范围 Application
铜 Cu	铝 Al		
VV	VLV	聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulation PVC sheath power cable	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。阻燃电缆适用于要求阻燃的场合。耐火电缆适用于防火要求高的场合。 To be fixedly laid indoors in tunnel, cable tray or pipe, outside the cable couldn't bear mechanical force flame-retardant performance, the fire-resistance is used in the environment with high demand on fire-resisting performance.
VY	VLY	聚氯乙烯绝缘聚乙烯护套电力电缆 PVC insulation PE sheath power cable	
ZR-VV	ZR-VLV	聚氯乙烯绝缘聚氯乙烯护套阻燃电力电缆 PVC insulation PVC sheath flame-retardant power cable	
NH-VV	--	聚氯乙烯绝缘聚氯乙烯护套耐火电力电缆 PVC insulation PVC sheath fire-retardant power cable	
VV <sub>22</sub>	VLV <sub>22</sub>	聚氯乙烯绝缘聚氯乙烯护套钢带铠装电力电缆 PVC insulation steel tape armored PVC sheath power cable	敷设在地下，电缆能承受机械外力作用，但不能承受大的拉力。阻燃电缆适用于要求阻燃的场合。耐火电缆适用于防火要求高的场合。 To be laid underground, the cable could bear certain mechanical force, but it couldn't bear great pulling force, flame-retardant cable is suitable for environment with demand on flame-retardant performance, the fire-resistance is used in the environment with high demand on fire-resisting performance.
ZR-VV <sub>22</sub>	ZR-VLV <sub>22</sub>	聚氯乙烯绝缘聚氯乙烯护套钢带铠装阻燃电力电缆 PVC insulation steel tape armored PVC sheath flame-retardant power cable	
NH-VV <sub>22</sub>	--	聚氯乙烯绝缘聚氯乙烯护套钢带铠装耐火电力电缆 PVC insulation steel tape armored PVC sheath fire-resistance power cable	
VV <sub>23</sub>	VLV <sub>23</sub>	聚氯乙烯绝缘聚乙烯护套钢带铠装电力电缆 PVC insulation steel tape armored PE sheath power cable	
VV <sub>32</sub>	VLV <sub>32</sub>	聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装电力电缆 PVC insulation thin steel wire armored PVC sheath power cable	

## 电缆结构性 Structure and size

型号 Model		名称 Name	适用范围 Application
铜 Cu	铝 Al		
ZR-VV <sub>32</sub>	ZR-VLV <sub>32</sub>	聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装阻燃电力电缆 PVC insulation thin steel wire armored PVC sheath flame-retardant power cable	敷设在室内、矿井及水中，能承受机械外力作用的相当的拉力。阻燃电缆适用于要求阻燃的场合。耐火电缆适用于防火要求高的场合。 To be laid indoors, in mine shaft and in water, The cable COuld bear certain mechanical force and great pulling force, flame-retardant cable is suitable for environment with demand on flame-retardant performance, the fire-resistance, is used in the environment with high demand on fire resisting performance
NH-VV <sub>32</sub>	--	聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装耐火电力电缆 PVC insulation thin steel wire armored PVC sheath fire-resistance power cable	
VV <sub>33</sub>	VLV <sub>33</sub>	聚氯乙烯绝缘聚乙烯护套细钢丝铠装电力电缆 PVC insulation thin steel wire armored PE sheath power cable	
VV <sub>43</sub>	VLV <sub>43</sub>	聚氯乙烯绝缘聚氯乙烯护套粗钢丝铠装电力电缆 PVC insulation thick steel wire armored PVC sheath power cable	
ZR-VV <sub>22</sub>	ZR-VLV <sub>22</sub>	聚氯乙烯绝缘聚氯乙烯护套粗钢丝铠装阻燃电力电缆 PVC insulation thick steel wire armored PVC sheath flame-retardant power cable	
NH-VV <sub>22</sub>	--	聚氯乙烯绝缘聚氯乙烯护套粗钢丝铠装耐火电力电缆 PVC insulation thick steel wire armored PVC sheath fire-resistance power cable	

### ※使用特性 Using Features

- (1) 电缆导体长期允许工作温度不超过 70℃。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℃。
- (2) 敷设电缆时的环境温度应不低于 0℃，低于 0℃时应先预热。最小弯曲半径不小于电缆外径的 1.5 倍。
- (3) 导体直流电阻应符合 GB/T3956 的规定。
- (4) 1= 频耐电压试验: 3.5kV/5min 不击穿。
- (5) 阻燃特性:

阻燃电缆能经受 GB/T18380.3 规定的成束燃烧试验。  
低烟低卤阻燃电缆能经受 GB/T18380.3 规定的成束燃烧试验，且燃烧时烟浓度符合 GB/T17651.1 的规定、燃烧析出气体中 HCL 含量应 ≤ 100mg/g 低烟低卤阻燃电缆能经受 GB/T18380.3 规定的成束燃烧试验，且燃烧时的烟浓度符合 GB/T17651.1 的规定、燃烧析出气体水溶液的值 PH ≥ 4.3，导电率 ≤ 10us/mm。耐火电缆能经受 GB12666.6 规定耐火试验。

- (1) The max. long-term operating temperature of conductor is no more than 70℃  
In short-circuit (The Max. long-term is continue no more than 5 seconds) The highest temperature of conductor is no more than 160℃
- (2) Environment temperature should be no lower than 0℃, The min. bending radius should be no smaller than 15 times of cable outer diameter.
- (3) D.C conductor resistance complies with the stipulations GB/T3956.
- (4) Working frequency Voltage Test: 3.5kV/5min with out puncture
- (5) Flame-retardant character:  
Flame-retardant cable could endure firing test in bundle stipulated in GB/T18380.3 Low smoke low halogen flame-retardant cable could endure firing test in bundle stipulated in GB/T18380.3, and smoke density in firing should comply with stipulations of GB/T17651.1  
HCL content of gas separated out in firing should be no more than 100mg/g.  
Low smoke & halogen-free flame-retardant cable could endure firing test in bundle as GB/T18380.3 Smoke density in firing should comply with stipulations of GB/T17651.1/PH value of solution water of gas separated out should be less than 4.3, and electric conductivity rate should be no more than 10us/mm  
Fire-resistance cable could endure fire rating test in GB 12666.6

### ※生产范围 The scope of production

型号 Type	芯数 Core Number	标称截面 Normal cross-section Area mm <sup>2</sup>	
		铜 Cu	铝 Al
VV, VLV, NH-VV, ZR-VV, ZR-VLV, VV <sub>22</sub>	1	1.5~400	6~300
	2		
	3		
VV <sub>32</sub> , VV <sub>42</sub> , VLV <sub>32</sub> , VLV <sub>42</sub> , VLV <sub>32</sub> , NH-VV <sub>32</sub>	3+1	2.5~300	6~300
	4		
NH-VV <sub>32</sub> , NH-VV <sub>42</sub> , ZR-VV <sub>22</sub> , ZR-VV <sub>32</sub>	5	1.5~400	6~300
	4+1		
	3+2		
ZR-VV <sub>42</sub> , ZR-VLV <sub>22</sub> , ZR-VLV <sub>32</sub> , ZR-VLV <sub>42</sub>	4+1	2.5~300	6~300
	3+2		

※电缆的结构尺寸及重量 Cable structure and weight

VV、VLV、ZRVV、ZRVLV

表1 单芯电缆 Table: single-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω /km)	
				VV	VLV	Cu	Al
1 × 1.5	0.8	1.5	6.1	50.7	-	12.1	-
1 × 2.5	0.8	1.5	6.5	63.5	47.9	7.41	12.1
1 × 4	1.0	1.5	7.4	87.7	63.0	4.61	7.41
1 × 6	1.0	1.5	7.9	111.0	75.9	3.08	4.61
1 × 10	1.0	1.5	9.2	166.6	93.0	1.83	3.08
1 × 16	1.0	1.5	10.3	233.3	132.2	1.15	1.91
1 × 25	1.2	1.5	12.0	344.9	185.4	0.727	1.20
1 × 35	1.2	1.5	13.2	449.8	228.7	0.524	0.868
1 × 50	1.4	1.5	14.9	590.5	289.8	0.387	0.641
1 × 70	1.4	1.5	16.7	807.3	374.2	0.268	0.443
1 × 95	1.6	1.7	19.3	1102.0	501.4	0.193	0.320
1 × 120	1.6	1.7	20.9	1349.0	590.3	0.153	0.253
1 × 150	1.8	1.8	23.1	1654.0	721.3	0.124	0.206
1 × 185	2.0	1.9	25.6	2060.0	891.6	0.0991	0.164
1 × 240	2.2	2.0	28.8	2651.0	1114.0	0.0754	0.125
1 × 300	2.4	2.1	31.9	3323.0	1396.0	0.0601	0.100
1 × 400	2.6	2.2	35.5	4205.0	1742.0	0.0470	0.0778
1 × 500	2.8	2.3	39.7	5359.0	2128.0	0.0366	0.0605
1 × 630	2.8	2.4	43.7	6707.0	2605.0	0.0283	0.0469

表2 二芯电缆 Table: two-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω /km)	
				VV	VLV	Cu	Al
2 × 1.5	0.8	1.8	10.5	119.0	-	12.1	-
2 × 2.5	0.8	1.8	11.3	150.0	118.0	7.41	12.1
2 × 4	1.0	1.8	13.1	210.0	160.0	4.61	7.41
2 × 6	1.0	1.8	14.1	264.0	192.0	3.08	4.61
2 × 10	1.0	1.8	16.7	393.0	242.0	1.83	3.08
2 × 16	1.0	1.8	18.8	541.0	334.0	1.15	1.91
2 × 25	1.2	1.8	22.2	794.0	469.0	0.727	1.20
2 × 35	1.2	1.8	24.5	1037.0	585.0	0.524	0.868
2 × 50	1.4	1.8	21.8	1227.0	620.0	0.387	0.641
2 × 70	1.4	1.8	24.7	1650.0	747.0	0.268	0.443
2 × 95	2.4	2.0	29.2	2213.0	988.0	0.193	0.320
2 × 120	2.6	2.1	31.3	2733.0	1186.0	0.153	0.253
2 × 150	2.8	2.2	34.7	3396.0	1462.0	0.124	0.206
2 × 185	2.8	2.4	37.9	3943.0	1598.0	0.0991	0.164

表3 三芯电缆 Table:three-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20℃ ≤(Ω/km)	
				VV	VLV	Cu	Al
3 × 1.5	0.8	1.8	10.9	142.0	-	12.1	-
3 × 2.5	0.8	1.8	11.8	187.0	139.0	7.41	12.1
3 × 4	1.0	1.8	13.7	265.0	189.0	4.61	7.41
3 × 6	1.0	1.8	14.8	335.0	227.0	3.08	4.61
3 × 10	1.0	1.8	17.6	514.0	290.0	1.83	3.08
3 × 16	1.0	1.8	19.9	728.0	419.0	1.15	1.91
3 × 25	1.2	1.8	23.6	1084.0	596.0	0.727	1.20
3 × 35	1.2	1.8	26.1	1422.0	745.0	0.524	0.868
3 × 50	1.4	1.8	26.5	1801.0	834.0	0.387	0.641
3 × 70	1.4	1.9	28.8	2415.0	1061.0	0.268	0.443
3 × 95	1.6	2.1	33.6	3205.0	1418.0	0.193	0.320
3 × 120	1.6	2.2	37.1	4037.0	1716.0	0.153	0.253
3 × 150	1.8	2.3	41.9	5028.0	2127.0	0.124	0.206
3 × 185	2.0	2.5	45.9	6180.0	2602.0	0.0991	0.164
3 × 240	2.2	2.7	51.8	7949.0	3308.0	0.0754	0.125
3 × 300	2.4	2.8	55.3	9780.0	3979.0	0.0601	0.100

表4 四芯电缆 Table:four-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20℃ ≤(Ω/km)	
				VV	VLV	Cu	Al
4 × 1.5	0.8	1.8	12.7	232.0	-	7.41	12.1
4 × 2.5	0.8	1.8	14.9	322.0	221.0	4.61	7.41
4 × 4	1.0	1.8	16.1	422.0	271.0	3.08	4.61
4 × 6	1.0	1.8	19.2	649.0	388.0	1.83	3.08
4 × 10	1.0	1.8	21.7	920.0	509.0	1.15	1.91
4 × 25	1.2	1.8	25.9	1373.0	722.0	0.727	1.20
4 × 35	1.2	1.8	28.7	1802.0	899.0	0.524	0.868
4 × 50	1.4	1.8	30.4	2380.0	1091.0	0.387	0.641
4 × 70	1.4	1.8	33.9	3202.0	1398.0	0.268	0.443
4 × 95	1.6	1.8	39.7	4315.0	1866.0	0.193	0.320
4 × 120	1.6	2.3	44.2	5359.0	2265.0	0.153	0.253
4 × 150	1.8	2.5	48.7	6679.0	2811.0	0.124	0.206
4 × 185	2.0	2.6	53.5	8190	3420.0	0.0991	0.164
4 × 240	2.2	2.9	55.4	10494.0	4305.0	0.0754	0.125
4 × 300	2.4	3.1	60.2	12948.0	5215.0	0.0601	0.100

表5 三+一芯电缆 Table5:(3+1)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω /km)			
	相线 Phasewire	地线 Groundwire			VV	VLV	Cu		Al	
3 × 1 × 2.5	1.0	0.8	1.8	14.3	354.0	211.0	4.61	7.41	7.41	12.1
3 × 1 × 4	1.0	1.0	1.8	15.8	400.0	265.0	3.08	4.61	4.61	7.41
3 × 1 × 6	1.0	1.0	1.8	18.5	595.0	334.0	1.83	3.08	3.08	4.61
3 × 1 × 10	1.0	1.0	1.8	21.1	853.0	467.0	1.15	1.83	1.91	3.08
3 × 1 × 16	1.2	1.0	1.8	24.9	1267.0	671.0	0.727	1.150	1.20	1.20
3 × 1 × 16	1.2	1.0	1.8	27.1	1591.0	806.0	0.524	1.150	0.868	0.868
3 × 1 × 25	1.2	1.2	1.9	30.4	2124.0	996.0	0.387	0.727	0.641	0.641
3 × 1 × 35	1.4	1.2	2.0	33.9	2851.0	1271.0	0.268	0.524	0.443	0.443
3 × 1 × 50	1.4	1.4	2.1	39.5	3844.0	1684.0	0.193	0.387	0.320	0.320
3 × 1 × 70	1.6	1.4	2.2	44.0	4833.0	2060.0	0.153	0.268	0.253	0.253
3 × 1 × 70	1.8	1.4	2.4	48.5	5841.0	2488.0	0.124	0.268	0.206	0.206
3 × 1 × 95	2.0	1.6	2.5	53.3	7246.0	3056.0	0.0991	0.1930	0.164	0.164
3 × 1 × 120	2.2	1.6	2.7	55.0	9216.0	3801.0	0.0754	0.1530	0.125	0.125
3 × 1 × 150	2.4	1.8	2.9	59.8	11388.0	4620.0	0.0601	0.1240	0.100	0.100

表6 五芯电缆 Table6:five-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω /km)	
				VV	VLV	Cu	Al
3 × 2.5	0.8	1.8	13.6	272.0	193.0	7.41	12.1
3 × 4	1.0	1.8	16.1	394.0	268.0	4.61	7.41
3 × 6	1.0	1.8	17.7	509.0	324.0	3.08	4.61
3 × 10	1.0	1.8	21.0	792.0	461.0	1.83	3.08
3 × 16	1.0	1.8	23.8	1124.0	608.0	1.15	1.91
3 × 25	1.2	1.9	28.7	1696.0	881.0	0.727	1.20
3 × 35	1.2	2.0	32.0	2241.0	1113.0	0.524	0.868
3 × 50	1.4	2.1	37.4	3158.0	1541.0	0.387	0.641
3 × 70	1.4	2.3	41.7	4236.0	11973.0	0.268	0.443
3 × 95	1.6	2.5	48.1	5685.0	2614.0	0.193	0.320
3 × 120	1.6	2.6	53.0	7662.0	3183.0	0.153	0.253
3 × 150	1.8	2.8	58.6	8743.0	3850.0	0.124	0.206
3 × 185	2.0	3.0	65.1	10801.0	4767.0	0.0991	0.164
3 × 240	2.2	3.3	72.1	13194.0	5461.0	0.0754	0.125
3 × 300	2.4	3.6	80.1	16414.0	6745.0	0.0601	0.100

表 15 三 + 二芯电缆 Table15:(3+2)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		内护套厚度 Innter theath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer theath thick mm	电缆近似外 径 Approx. diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20℃ ≤(Ω/km)			
	相线 Phasewire	地线 Groundwire					VV <sub>22</sub>	VLV <sub>22</sub>	Cu		Al	
3 × 4+2 × 2.5	1.0	0.8	1.2	0.2	1.8	18.8	580.0	491.0	4.61	7.41	7.41	12.1
3 × 6+2 × 4	1.0	1.0	1.2	0.2	1.8	20.8	728.0	570.0	3.08	4.61	4.61	7.41
3 × 10+2 × 6	1.0	1.0	1.2	0.2	1.8	23.3	973.0	702.0	1.83	3.08	3.08	4.61
3 × 16+2 × 10	1.0	1.0	1.2	0.2	1.8	26.3	1323.0	853.0	1.15	1.83	1.91	3.08
3 × 25+2 × 16	1.2	1.0	1.2	0.2	2.0	31.5	2053.0	1287.0	0.727	1.150	1.20	1.91
3 × 35+2 × 16	1.2	1.0	1.2	0.2	2.2	33.6	2406.0	1402.0	0.524	1.150	0.868	1.91
3 × 50+2 × 25	1.2	1.2	1.2	0.5	2.2	38.4	3371.0	2080.0	0.387	0.727	0.641	1.20
3 × 70+2 × 35	1.4	1.2	1.4	0.5	2.3	42.6	4350.0	2542.0	0.268	0.524	0.443	0.868
3 × 95+2 × 50	1.4	1.4	1.4	0.5	2.5	48.5	5736.0	3248.0	0.193	0.387	0.320	0.641
3 × 120+2 × 70	1.6	1.4	1.6	0.5	2.7	53.4	7126.0	3897.0	0.153	0.268	0.253	0.443
3 × 150+2 × 70	1.8	1.4	1.6	0.5	2.8	57.5	8249.0	4438.0	0.124	0.268	0.206	0.443
3 × 185+2 × 95	2.0	1.6	1.8	0.5	3.0	63.9	10254.0	5441.0	0.0991	0.1930	0.164	0.320
3 × 240+2 × 120	2.2	1.6	1.8	0.5	3.3	71.4	12888.0	6689.0	0.0754	0.1530	0.125	0.253
3 × 300+2 × 150	2.4	1.8	2.0	0.5	3.5	77.3	14843.0	7334.0	0.0601	0.1240	0.100	0.206

表 16 四 + 一芯电缆 Table16:(4+1)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		内护套厚度 Innter theath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer theath thick mm	电缆近似外 径 Approx. diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20℃ ≤(Ω/km)			
	相线 Phasewire	地线 Groundwire					VV <sub>22</sub>	VLV <sub>22</sub>	Cu		Al	
4 × 4+1 × 2.5	1.0	0.8	1.2	0.2	1.8	19.2	605.0	498.0	4.61	7.41	7.41	12.1
4 × 6+1 × 4	1.0	1.0	1.2	0.2	1.8	20.8	765.0	589.0	3.08	4.61	4.61	7.41
4 × 10+1 × 6	1.0	1.0	1.2	0.2	1.8	23.9	1052.0	756.0	1.83	3.08	3.08	4.61
4 × 16+1 × 10	1.0	1.0	1.2	0.2	1.8	26.9	1482.0	952.0	1.15	1.83	1.91	3.08
4 × 25+1 × 16	1.2	1.0	1.2	0.2	2.0	32.4	2312.0	1477.0	0.727	1.150	1.20	1.91
4 × 35+1 × 16	1.2	1.0	1.2	0.2	2.1	35.1	2756.0	1731.0	0.524	1.150	0.868	1.91
4 × 50+1 × 25	1.2	1.2	1.2	0.5	2.2	39.7	3680.0	1827.0	0.387	0.727	0.641	1.20
4 × 70+1 × 35	1.4	1.2	1.4	0.5	2.4	44.0	4768.0	2734.0	0.268	0.524	0.443	0.868
4 × 95+1 × 50	1.4	1.4	1.4	0.5	2.6	50.2	6267.0	3491.0	0.193	0.387	0.320	0.641
4 × 120+1 × 70	1.6	1.4	1.6	0.5	2.7	55.1	7689.0	4145.0	0.153	0.268	0.253	0.443
4 × 150+1 × 70	1.8	1.4	1.6	0.5	2.9	59.9	9216.0	4882.0	0.124	0.268	0.206	0.443
4 × 185+1 × 95	2.0	1.6	1.8	0.5	3.1	66.5	11293.0	5899.0	0.0991	0.1930	0.164	0.320
4 × 240+1 × 120	2.2	1.6	1.8	0.5	3.4	74.3	14371.0	7395.0	0.0754	0.1530	0.125	0.253
4 × 300+1 × 150	2.4	1.8	2.0	0.5	3.6	81.9	17385.0	9016.0	0.0601	0.1240	0.100	0.206

表7 三+二芯电缆 Table7:(3+2)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω/km)			
	相线 Phase wire	地线 Ground wire			VV	VLV	Cu		Al	
3 × 4+2 × 2.5	1.0	0.8	1.8	14.3	345.0	238.0	4.61	7.41	7.41	12.1
3 × 6+2 × 4	1.0	1.0	1.8	15.8	463.0	288.0	3.08	4.61	4.61	7.41
3 × 10+2 × 6	1.0	1.0	1.8	18.5	680.0	407.0	1.83	3.08	3.08	4.61
3 × 16+2 × 10	1.0	1.0	1.8	21.1	990.0	552.0	0.15	1.83	1.91	3.08
3 × 25+2 × 16	1.2	1.0	1.8	24.9	1468.0	773.0	0.727	1.150	1.20	1.20
3 × 35+2 × 16	1.2	1.0	1.9	27.1	1791.0	907.0	0.524	1.150	0.868	0.868
3 × 50+2 × 25	1.2	1.2	2.0	30.4	2573.0	1284.0	0.387	0.727	0.641	0.641
3 × 70+2 × 35	1.4	1.2	2.2	33.9	3464.0	1637.0	0.268	0.524	0.443	0.443
3 × 95+2 × 50	1.4	1.4	2.4	39.5	4697.0	2207.0	0.193	0.387	0.320	0.320
3 × 120+2 × 70	1.6	1.4	2.5	44.0	5935.0	2673.0	0.153	0.268	0.253	0.253
3 × 150+2 × 70	1.8	1.4	2.6	48.5	6968.0	3153.0	0.124	0.268	0.206	0.206
3 × 185+2 × 95	2.0	1.6	2.8	53.3	8759.0	3942.0	0.0991	0.1930	0.164	0.164
3 × 240+2 × 120	2.2	1.6	3.1	55.0	11184.0	4978.0	0.0754	0.1530	0.125	0.125
3 × 300+2 × 150	2.4	1.8	3.3	59.8	13719.0	5984.0	0.0601	0.1240	0.100	0.100

表8 四+一芯电缆 Table8:(4+1)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		护套厚度 Sheath thickness mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 < Conductor resistance at 20℃ < (Ω/km)			
	相线 Phase wire	地线 Ground wire			VV	VLV	Cu		Al	
4 × 4+1 × 2.5	1.0	0.8	1.8	15.6	358.0	251.0	4.61	7.41	7.41	12.1
4 × 6+1 × 4	1.0	1.0	1.8	17.4	493.0	317.0	3.08	4.61	4.61	7.41
4 × 10+1 × 6	1.0	1.0	1.8	20.3	733.0	347.0	1.83	3.08	3.08	4.61
4 × 16+1 × 10	1.0	1.0	1.8	23.3	1118.0	588.0	0.15	1.83	1.91	3.08
4 × 25+1 × 16	1.2	1.0	1.8	27.6	1662.0	827.0	0.727	1.150	1.20	1.20
4 × 35+1 × 16	1.2	1.0	1.9	30.3	2046.0	1021.0	0.524	1.150	0.868	0.868
4 × 50+1 × 25	1.2	1.2	2.0	35.8	2820.0	1395.0	0.387	0.727	0.641	0.641
4 × 70+1 × 35	1.4	1.2	2.2	39.9	3782.0	1787.0	0.268	0.524	0.443	0.443
4 × 95+1 × 50	1.4	1.4	2.4	46.0	5088.0	2356.0	0.193	0.387	0.320	0.320
4 × 120+1 × 70	1.6	1.4	2.6	51.0	6394.0	2911.0	0.153	0.268	0.253	0.253
4 × 150+1 × 70	1.8	1.4	2.7	55.4	7725.0	3482.0	0.124	0.268	0.206	0.206
4 × 185+1 × 95	2.0	1.6	2.9	61.9	9894.0	4607.0	0.0991	0.1930	0.164	0.164
4 × 240+1 × 120	2.2	1.6	3.2	69.7	12306.0	5466.0	0.0754	0.1530	0.125	0.125
4 × 300+1 × 150	2.4	1.8	3.4	74.3	15397.0	7118.0	0.0601	0.1240	0.100	0.100

※电缆的结构尺寸及重量 Cable structure and weight

VV<sub>22</sub>、VLV<sub>22</sub>、ZRVV<sub>22</sub>、ZRVLV<sub>22</sub>

表9 单芯电缆 Table9:single-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20℃ ≤ (Ω /km)	
					VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al
1 × 10	1.0	0.2	1.8	13.6	348	265	1.83	3.08
1 × 16	1.0	0.2	1.8	14.6	432.0	331.0	1.15	1.91
1 × 25	1.2	0.2	1.8	16.4	574.0	415.0	0.272	1.20
1 × 35	1.2	0.2	1.8	17.5	699.0	478.0	0.524	0.868
1 × 50	1.4	0.2	1.8	19.3	870.0	569.0	0.387	0.641
1 × 70	1.4	0.2	1.8	21.1	1118.0	685.0	0.268	0.443
1 × 95	1.6	0.2	1.8	23.4	1444.0	844.0	0.193	0.320
1 × 120	1.6	0.2	1.8	25.0	1719.0	960.0	0.153	0.253
1 × 150	1.8	0.2	1.8	27.0	2046.0	1113.0	0.124	0.206
1 × 185	2.0	0.2	1.8	30.7	2672	1503.0	0.0991	0.164
1 × 240	2.0	0.2	1.9	33.3	3353.0	1816.0	0.0754	0.125
1 × 300	2.0	0.5	2.0	36.4	4072.0	2145.0	0.0601	0.100
1 × 400	2.0	0.5	2.1	40.1	5033.0	2570.0	0.0470	0.0778
1 × 500	2.0	0.5	2.2	44.1	6277.0	3099.0	0.0366	0.0605
1 × 630	2.0	0.5	2.5	48.7	7746.0	3674.0	0.0283	0.0469

表10 二芯电缆 Table10:two-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer sheath thick mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻 ≤ Conductor resistance at 20 ℃	
						VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al
2 × 4	1.0	1.2	0.2	1.8	13.1	210.0	160.0	4.61	7.41
2 × 6	1.0	1.2	0.2	1.8	14.1	264.0	192.0	3.08	4.61
2 × 10	1.0	1.2	0.2	1.8	16.7	393.0	242.0	1.83	3.08
2 × 16	1.0	1.2	0.2	1.8	18.8	51.0	334.0	1.15	1.91
2 × 25	1.2	1.2	0.2	1.8	22.2	791.0	469.0	0.272	1.20
2 × 35	1.2	1.2	0.2	1.8	24.5	1037.0	585.0	0.524	0.868
2 × 50	1.4	1.2	0.2	1.8	21.8	1227.0	610.0	0.387	0.641
2 × 70	1.4	1.2	0.2	1.9	24.7	1650.0	747.0	0.268	0.443
2 × 95	1.6	1.2	0.2	2.0	29.2	2213.0	988.0	0.193	0.320
2 × 120	1.6	1.2	0.2	2.1	31.3	2733.0	1186.0	0.153	0.253
2 × 150	1.8	1.4	0.2	2.2	34.7	3396.0	1462.0	0.124	0.206
2 × 185	2.0	1.4	0.2	2.2	39.2	4112.0	1726.0	0.0991	0.164



表11 三芯电缆 Table11:three-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer sheath thick mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻< Conductor resistance at 20 ℃	
						VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al
3 × 4	1.0	1.2	0.2	1.8	17.3	489.0	414.0	4.61	7.41
3 × 6	1.0	1.2	0.2	1.8	18.4	577.0	472.0	3.08	4.61
3 × 10	1.0	1.2	0.2	1.8	21.2	800.0	559.0	1.83	3.08
3 × 16	1.0	1.2	0.2	1.8	23.5	1050.0	740.0	1.15	1.91
3 × 25	1.2	1.2	0.2	1.8	27.2	1465.0	976.0	0.272	1.20
3 × 35	1.2	1.2	0.2	1.9	30.7	2149.0	1372.0	0.524	0.868
3 × 50	1.4	1.2	0.2	2.0	31.3	2453.0	1486.0	0.387	0.641
3 × 70	1.4	1.2	0.2	2.1	33.6	3116.0	1763.0	0.268	0.443
3 × 95	1.6	1.2	0.5	2.2	38.3	4053.0	2216.0	0.193	0.320
3 × 120	1.6	1.2	0.5	2.3	41.9	4930.0	2609.0	0.153	0.253
3 × 150	1.8	1.4	0.5	2.5	47.1	6075.0	3174.0	0.124	0.206
3 × 185	2.0	1.4	0.5	2.6	50.9	7299.0	3721.0	0.0991	0.164
3 × 240	2.2	1.6	0.5	2.8	57.0	9213.0	4590.0	0.0751	0.125
3 × 300	2.4	1.8	0.5	3.0	61.1	11185.0	5438.0	0.0601	0.100

表12 四芯电缆 Table12:four-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer sheath thick mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻< Conductor resistance at 20 ℃	
						VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al
4 × 4	1.0	1.2	0.2	1.8	13.1	210.0	160.0	4.61	7.41
4 × 6	1.0	1.2	0.2	1.8	14.1	264.0	192.0	3.08	4.61
4 × 10	1.0	1.2	0.2	1.8	16.7	393.0	242.0	1.83	3.08
4 × 16	1.0	1.2	0.2	1.8	18.8	541.0	334.0	1.15	1.914
4 × 25	1.2	1.2	0.2	1.8	22.2	794.0	469.0	0.272	1.20
4 × 35	1.2	1.2	0.2	1.8	24.5	1037.0	585.0	0.524	0.868
4 × 50	1.4	1.2	0.2	1.8	21.8	1227.0	610.0	0.387	0.641
4 × 70	1.4	1.2	0.2	1.9	24.7	1650.0	747.0	0.268	0.443
4 × 95	1.6	1.2	0.2	2.0	29.2	2213.0	988.0	0.193	0.320
4 × 120	1.6	1.2	0.2	2.1	31.3	2733.0	1186.0	0.153	0.253
4 × 150	1.8	1.4	0.5	2.6	53.7	7866.0	3998.0	0.124	0.206
4 × 185	2.0	1.6	0.5	2.8	58.9	9542.0	4772.0	0.0991	0.164
4 × 240	2.2	1.8	0.5	3.0	61.0	11916.0	5727.0	0.0751	0.125
4 × 300	2.4	1.8	0.5	3.3	66.2	14501.0	6767.0	0.0601	0.100

表 13 五芯电缆 Table13:five-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm	内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer sheath thick mm	电缆近似外径 Approx.diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻≤ Conductor resistance at 20 ℃	
						VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al
5 × 2.5	0.8	1.2	0.2	1.8	17.3	788.0	409.0	7.41	12.4
5 × 4	1.0	1.2	0.2	1.8	19.7	644.0	518.0	4.61	7.41
5 × 6	1.0	1.2	0.2	1.8	21.3	790.0	605.0	3.08	4.61
5 × 10	1.0	1.2	0.2	1.8	24.6	1110.0	779.0	1.83	3.08
5 × 16	1.0	1.2	0.2	1.8	27.4	1485.0	970.0	1.15	1.91
5 × 25	1.2	1.2	0.2	2.0	33.3	2339.0	1525.0	0.272	1.20
5 × 35	1.4	1.2	0.5	2.1	36.6	2953.0	1822.0	0.524	0.868
5 × 50	1.4	1.2	0.5	2.3	41.6	3975.0	2392.0	0.387	0.641
5 × 70	1.6	1.2	0.5	2.4	45.5	5125.0	2909.0	0.268	0.443
5 × 95	1.6	1.2	0.5	2.6	52.1	6798.0	3790.0	0.193	0.320
5 × 120	1.8	1.6	0.5	2.8	57.3	8217.0	4418.0	0.153	0.253
5 × 150	1.8	1.6	0.5	3.0	63.1	10030.0	5280.0	0.124	0.206
5 × 185	2.0	1.8	0.5	3.2	69.9	12275.0	6418.0	0.0991	0.164
5 × 240	2.2	2.0	0.5	3.5	77.1	15077.0	7343.0	0.0751	0.125
5 × 300	2.4	2.0	0.5	3.8	86.5	19395.0	9726.0	0.0601	0.100

表 14 三+一芯电缆 Table14:(3+1)-core cable

导线标称截面 Nom.cross sectional areas of conductor mm <sup>2</sup>	绝缘厚度 Insulation thickness mm		内护套厚度 Innter sheath thick mm	钢带厚度 Steel tape thick mm	外护套厚度 Outer sheath thick mm	电缆近似外径 Approx. diameter of cable mm	电缆近似重量 Cable approx.weight		20℃导体直流电阻≤ Conductor resistance at 20 ℃			
	相线 Phasewire	地线 Groundwire					VV <sub>22</sub>	VLV <sub>22</sub>	Cu	Al	Al	Al
3 × 4+1 × 2.5	1.0	0.8	1.2	0.2	1.8	17.9	538.0	446.0	4.61	7.41	7.41	12.1
3 × 6+1 × 4	1.0	1.0	1.2	0.2	1.8	19.5	657.0	524.0	3.08	4.61	4.61	7.41
3 × 10+1 × 6	1.0	1.0	1.2	0.2	1.8	22.1	894.0	619.0	1.83	3.08	3.08	4.61
3 × 16+1 × 10	1.0	1.0	1.2	0.2	1.8	24.7	1194.0	804.0	0.15	1.83	1.91	3.08
3 × 25+1 × 16	1.2	1.0	1.2	0.2	1.8	28.5	1668.0	1072.0	0.727	1.150	1.20	1.20
3 × 35+1 × 16	1.2	1.0	1.2	0.2	1.8	31.7	2243.0	1458.0	0.524	1.150	0.868	0.868
3 × 50+1 × 25	1.2	1.2	1.2	0.2	1.9	35.0	2852.0	1723.0	0.387	0.727	0.641	0.641
3 × 70+1 × 35	1.4	1.2	1.2	0.5	2.0	38.5	3657.0	2077.0	0.268	0.524	0.443	0.443
3 × 95+1 × 50	1.4	1.4	1.2	0.5	2.2	44.3	4796.0	2636.0	0.193	0.387	0.320	0.320
3 × 120+1 × 70	1.6	1.4	1.4	0.5	2.4	49.0	5912.0	3139.0	0.153	0.268	0.253	0.253
3 × 150+1 × 70	1.8	1.4	1.4	0.5	2.5	53.5	7025.0	3673.0	0.124	0.268	0.206	0.206
3 × 185+1 × 95	2.0	1.6	1.6	0.5	2.6	58.9	8598.0	4408.0	0.0991	0.1930	0.164	0.164
3 × 240+1 × 120	2.2	1.6	1.6	0.5	2.8	60.6	10631.0	5216.0	0.0754	0.1530	0.125	0.125
3 × 300+1 × 150	2.4	1.8	1.8	0.5	3.1	65.6	12913.0	6145.0	0.0601	0.1240	0.100	0.100

## 电缆载流量 Current Carrying Capacity

### VV,ZRVV

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

0.6/1kV Copper Conductor PVC Insulated PVC sheathed Flame Retardant & Non-Flame Retardant Power Cable Installed in Air for Long Term and Continuously Load

导线标称截面 Nom.cross sectional area of conductor	长期连续负荷允许载 Current Carrying Capacity(A)											
	无铠装 Unarmoured						铠装 Armoured					
	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores
	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯 (4+1)cores	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯 (4+1)cores
	○○	○○○	○○○		(3+1)芯(3+1) cores	(3+2)芯 (3+2)cores	○○	○○○	○○○		(3+1)芯 (3+1)cores	(3+2)芯 (3+2)cores
1.5	28	23	26	20	-	-	28	23	26	-	-	-
2.5	36	30	33	26	-	-	36	30	33	-	-	-
4	47	39	44	37	30	31	46	39	44	38	31	32
6	60	49	56	44	37	38	60	49	56	45	38	39
10	83	68	77	61	53	54	83	68	77	62	54	55
16	109	89	101	82	69	70	109	89	101	84	70	71
25	138	113	128	104	89	91	138	113	128	106	91	91
35	173	142	161	127	109	111	173	142	161	130	111	112
50	207	170	193	155	132	135	207	170	193	158	135	137
70	264	216	246	190	167	170	264	216	246	194	170	173
95	322	264	299	242	213	217	322	264	299	247	217	221
120	374	307	348	282	242	247	374	307	348	288	246	250
150	431	353	401	322	282	288	431	353	401	328	287	290
185	495	406	460	368	322	328	495	406	460	375	327	330
240	587	481	546	-	385	393	587	481	546	-	392	398
300	673	552	626	-	431	440	673	552	626	-	439	445
400	794	652	738	-	-	-	794	652	738	-	-	-
500	920	754	856	-	-	-	920	754	856	-	-	-
630	1058	868	984	-	-	-	1058	868	984	-	-	-
800	1219	1001	1134	-	-	-	1219	1001	1134	-	-	-

**VLV,ZRVLV**

0.6/1kV 铝导体 PVC 绝缘 PVC 护套阻燃和非阻燃电力电缆在空气中敷设长期连续负荷允许载流量

0.6/1kV Aluminum Conductor PVC Insulated PVC sheathed Flame Retardant or Non-flame Retardant Power Cable Installed in Air for Long Term and Continuously Load

导线标称截面 Nom.cross sectional area of conductor	长期连续负荷允许载 Current Carrying Capacity(A)											
	无铠装 Unarmoured						铠装 Armoured					
	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores
	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯 (4+1)cores	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯 (4+1)cores
	○○	○○○	○○○		(3+1)芯(3+1) cores	(3+2)芯 (3+2)cores	○○	○○○	○○○		(3+1)芯 (3+1)cores	(3+2)芯 (3+2)cores
2.5	28	23	26	21	17	17	28	23	26	-	-	-
4	36	30	34	28	23	23	37	30	34	28	23	23
6	47	40	45	37	30	31	48	40	45	37	30	31
10	60	52	59	48	40	41	63	52	59	48	40	41
16	84	69	78	63	54	55	84	69	78	63	54	55
25	110	90	102	81	69	70	110	90	102	81	69	70
35	132	108	123	99	85	87	132	108	123	99	85	87
50	161	132	150	121	104	106	161	132	150	121	104	106
70	201	165	187	150	132	135	201	165	187	150	132	135
95	247	203	230	190	161	164	247	203	230	190	161	164
120	288	236	268	219	190	194	288	236	268	219	190	194
150	334	274	311	247	219	223	334	274	311	247	219	223
185	385	316	358	288	247	252	385	316	358	288	247	252
240	454	372	422	-	299	305	454	372	422	-	299	305
300	523	429	486	-	339	346	523	429	486	-	339	346
400	621	509	578	-	-	-	621	509	578	-	-	-
500	725	595	674	-	-	-	725	595	674	-	-	-
630	851	698	791	-	-	-	851	698	791	-	-	-
800	989	811	920	-	-	-	989	811	920	-	-	-

## 电缆运行敷设条件 Installation

### 电缆敷设

- 1、敷设时电缆温度不低于0℃，环境温度低于0℃时，应对电缆进行预热。
- 2、敷设的弯曲半径不小于电缆外径的15倍。
- 3、电缆敷设后，应经受以直流耐压试验，时间15分，试验电压3.5kv。

### 在空气中敷设

- 1、单芯电缆平行敷设时中心距离：185mm<sup>2</sup>及以下为电缆直径的2倍 240mm<sup>2</sup>及以上为90mm。
- 2、周围环境温度：30℃。
- 3、导电线芯最高允许温度：70℃。
- 4、不同环境温度下载流量的校正系数：

环境温度	20℃	25℃	35℃	40℃	45℃
校正系数	1.12	1.06	0.94	0.87	0.79

### 直埋敷设

- 1、单芯电缆不接触敷设时，中心距离为电缆直径的2倍。
- 2、周围环境温度：25℃。
- 3、导电线芯最高允许温度：70℃。
- 4、土壤热阻系数：1.0℃.m/w。
- 5、直埋深度：0.7m。
- 6、不同环境温度下载流量校正系数：

环境温度	15℃	20℃	30℃	35℃
校正系数	1.11	1.05	0.94	0.88

### 短路容量

导电线芯短路时允许最高温度	最高允许的短路电流
160℃	$I=94S/\sqrt{t}$ A

### Installation

- 1.The installation temperature should not over 20℃, If the ambient temperature is lower than 0℃,the cable should be preheated.
- 2.The bending radius of cable should not less than 5 times.
- 3.After installation, the cable should have voltage test for 15min. 3.5kv d.c.

### In air laying

- 1.As the single core cable laying in parallel, the distance between the cable:center is 2 times(for cables,which cross sectional area of conductor  $\leq 185\text{mm}^2$ )and 90mm(for cables,which cross sectional area of conductor  $\leq 240\text{mm}^2$ ).
- 2.Ambient temperature: 30℃.
- 3.Max.temperature of conductor: 70℃.
- 4.Modified coefficient of current carrying capacity for ambient temperature:

Air temperature	20℃	25℃	35℃	40℃	45℃
Mod. coefficient	1.12	1.06	0.94	0.87	0.79

### Direct in ground laying

- 1.When the single core cables are installed separately, the distance between the cable: center is 2 times of the cable diameter.
- 2.Ambient temperature: 25℃.
- 3.Max.temperature of conductor: 70℃.
- 4.Soil thermour resistivity: 1.0℃.m/w
- 5.Depth: 0.7m.
- 6.Modified coefficient of current carrying capacity for ambient temperature

Air temperature	15℃	20℃	30℃	35℃
Mod. coefficient	1.11	1.05	0.94	0.88

### Short circuit ratings

Max.temperature at short circuit	Max,t short circuit rating
160℃	$I=94S/\sqrt{t}$ A

**VV22,ZRVV22**

0.6/1kV 铜导体 PVC 绝缘 PVC 护套阻燃和非阻燃电力电缆在直埋敷设长期连续负荷允许载流量

0.6/1kV Copper Conductor PVC Insulated PVC Sheathed Flame Retardant & Non-flame Retardant Power Cable Installed Direct in Ground for Long Term Continuously Load

表 20 Table 20

导线标称 截面 Nom.cross sec.areas of conductor	长期连续负荷允许载 Current Carrying Capacity(A)											
	无铠装 Unarmoured						铠装 Armoured					
	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores	单芯 Single core			双芯 2 cores	三芯 3 cores	五芯 5 cores
	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯(4+1) cores	双芯 2 cores	三芯 3 cores			四芯 4 cores	(4+1)芯 (4+1)cores
○○		⊗	○○○	(3+1)芯 (3+1)cores	(3+2)芯(3+2) cores	○○		⊗	○○○	(3+1)芯 (3+1)cores	(3+2)芯 (3+2)cores	
1.5	29	24	27	26	22	22	29	24	27	26	22	22
2.5	38	31	35	34	29	30	38	31	35	34	29	30
4	49	40	46	44	38	39	49	40	46	44	38	39
6	61	50	57	56	47	48	61	50	57	56	47	48
10	83	68	77	76	65	66	83	68	77	76	65	66
16	105	86	98	100	84	86	105	86	98	100	84	86
25	135	111	126	125	110	112	135	111	126	125	110	112
35	160	131	149	155	130	133	160	131	149	155	130	133
50	195	160	181	185	155	158	195	160	181	185	155	158
70	240	197	223	230	192	199	240	197	223	230	195	199
95	285	234	265	275	230	235	285	234	265	275	230	235
120	325	267	302	310	260	265	325	267	302	310	260	265
150	365	299	339	350	300	306	365	299	339	350	300	306
185	415	340	386	395	335	341	415	340	386	395	335	341
240	480	394	446	-	390	398	480	394	446	-	390	398
300	545	447	507	-	435	444	545	447	507	-	435	444
400	625	513	581	-	-	-	625	513	581	-	-	-
500	710	582	660	-	-	-	710	582	660	-	-	-
630	810	664	753	-	-	-	810	664	753	-	-	-
800	910	746	846	-	-	-	910	746	846	-	-	-

**VLV22, ZRVLV22**

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

0.6/1kV Aluminum Conductor PVC Insulated PVC Sheathed Flame Retardant & Non-flame Retardant power Cable Installed Direct in Ground for Long Term and Continuously Load

表 21 Table 21

导线标称截面 Nom.cross sectional area of conductor	长期连续负荷允许载 Current Carrying Capacity(A)														
	无铠装 Unarmoured						铠装 Armoured								
	单芯 Single core			三芯 3 cores	四芯 4 cores	五芯 5 cores	单芯 Single core			三芯 3 cores	四芯 4 cores	五芯 5 cores			
	双芯 2 cores	三芯 3 cores					双芯 2 cores	三芯 3 cores					双芯 2 cores	三芯 3 cores	四芯 4 cores
○○		⊗	○○○					○○	⊗						
2.5	30	25	28	26	23	23	30	25	28	26	23	23			
4	39	32	36	35	30	31	39	32	36	35	30	31			
6	50	41	47	45	39	40	50	41	47	45	39	40			
10	64	52	60	59	50	51	64	52	60	59	50	51			
16	83	68	77	77	65	66	83	68	77	77	65	66			
25	105	86	98	100	84	85	105	86	98	100	84	85			
35	125	103	116	120	100	102	125	103	116	120	100	102			
50	150	123	140	145	120	122	150	123	140	145	120	122			
70	185	152	172	175	150	153	185	152	172	175	150	153			
95	220	180	205	210	185	189	220	180	205	210	185	189			
120	250	205	233	245	205	209	250	205	233	245	205	209			
150	285	234	265	275	230	235	285	234	265	275	230	235			
185	320	262	298	310	260	265	320	262	298	310	260	265			
240	375	308	349	-	300	306	375	308	349	-	300	306			
300	425	349	395	-	340	347	425	349	395	-	340	347			
400	490	402	456	-	-	-	490	402	456	-	-	-			
500	560	459	521	-	-	-	560	459	521	-	-	-			
630	645	529	560	-	-	-	645	529	560	-	-	-			
800	735	603	684	-	-	-	735	603	684	-	-	-			
1000	825	676	683	-	-	-	825	676	683	-	-	-			