

0.6/1kV及以下聚氯乙烯绝缘电力电缆

Power cable with PVC insulation for rated voltage of 0.6/1kV or Lower

本产品适用于交流额定电压0.6/1kV及以下的电力线路中作输送电能用。其中五芯电力电缆是为适应配电系统的发展和安全性需要，将低压配电系统工程的中性与零线分开，使系统运行更趋稳定，保障了操作人员的安全性。

一、生产执行标准

GB/T12706.1-2020，也可按照用户需要，采用国际电工委员会IEC60502生产。

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），电缆导体截面积 $\leq 300\text{mm}^2$ ，最高温度不超过160℃；导体截面积 $> 300\text{mm}^2$ ，最高温度不超过140℃。
- 3、敷设电缆时的环境温度应不低于0℃。

三、产品型号中各字母代表意义

- 1.材料代号
- 第1种和第2种铜导体.....省略
- 第5种铜导体.....R
- 铝导体.....L
- 聚氯乙烯.....V
- 聚乙烯.....Y
- 2、结构特征代号
- 双钢带铠装.....2
- 细圆钢丝铠装.....3
- 粗圆钢丝铠装.....4
- （双）非磁性金属带铠装.....6
- 非磁性金属丝铠装.....7
- 聚氯乙烯外护套.....2
- 聚乙烯外护套.....3

The cable is used to transmit power on the A.C.0.6/1KV or below power transmission line. The five cores power cable is designed to separate the neutral and lines of low-voltage distribution system in order to meet the needs of the development and safety of the distribution system,so that the operation of the system is more stable and the safety of the operator is ensured.

Executive standard

GB/T12706.1-2020,We can also produce cables according to the requirement of the customer or IEC60502 standard.

Working Condition

- 1.Long-term allowable working temperature of cable conductor allowed shall be no more than 70℃.
- 2.Short circuit(the longest duration is no more than 5 second),conductor cross-sectional area $\leq 300\text{mm}^2$,the highest temperature is no more than 160℃.Conductor cross-sectional area $> 300\text{mm}^2$,maximum temperature does not exceed 140℃.
- 3.Environment temperature for installation shall be no less than 0℃.

The meaning of each letter in the product model

- 1.Material Code
- Class 1 and Class 2 conductor.....Omitted
- Class 5 conductor.....R
- Aluminium.....L
- PVC.....V
- PE.....Y
- 2.Structure Code
- Double steel tape armor.....2
- Round steel wire armor.....3
- Thick round steel wire armor.....4
- (Double) non-magnetic metallic tape armor.....6
- Non-magnetic metallic wire armor.....7
- PVC Outer sheath.....2
- PE Outer sheath.....3

四、电缆基本型号名称

Type, Description and Application occasion

型号 Type		名称 Description	适用场合 Application
铜 Cu	铝 Al		
VV	VLV	铜（铝）芯聚氯乙烯绝缘聚氯乙烯护套电力电缆 Power cable with copper / AL conductor, 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	铜（铝）芯聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor PVC insulation, steel tape armored and PVC sheath	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.
VV32	VLV32	铜（铝）芯聚氯乙烯绝缘钢丝铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor PVC insulation, steel wire armored and PVC sheath	敷设在地下，电缆能承受一定机械外力作用，也可以承受一定的拉力。 To be laid underground, the cable can bear certain mechanical force, and also bear certain pulling force.
VV42	VLV42	铜（铝）芯聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 Power cable with copper / AL conductor, PVC insulation, thick steel wire armored, PVC sheath	敷设在地下，电缆能承受较大机械外力的场所。 To be laid underground, the cable can bear large mechanical tension.

备注：
①阻燃电缆、耐火电缆及其组合型电缆的名称和型号应按GB/T 19666的规定在上述型号的基础上编制。
②比如阻燃型电缆，在原型号前加“Z-”、“ZA-”、“ZB-”、“ZC” “ZD-”。
③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN” “ZDN-”。
④低烟低卤阻燃电缆，在原型号前加“DDZ-”、“DDZA-”、“DDZB-”、“DDZC” “DDZD-”。

①The names and models of flame retardant cables, fire resistant cables and their combined type cables shall be compiled on the basis of the above models according to the provisions of GB/T 19666.
②For flame-retardant cable type, add "Z-", "ZA-", "ZB-", "ZC" and "ZD-" before the original model.
③For fire-resistant cable type, add "-", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model.
④For Low smoke and low halogen flame retardant cable type, add "DDZ-", "DDZA-", "DDZB-", "DDZC" and "DDZD-" before the original model.

五、生产范围

Production Range

型号 Type		芯数 Core Number	标称截面 mm ² Nominal cross section area
铜 Cu	铝 Al		
VV VV22 VV32	VLV VLV22 VLV32	1 2 3 3+1 4 4+1 3+2 5	1.5~800 1.5~400 1.5~500 4~400 2.5~300 4~400 4~400 4~400

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材料。

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

六、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标准中的导体的规定；

2、工频交流耐压试验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/5min；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/5min，绝缘均应无击穿。
- 1.The Maximum DC resistance value of conductor at 20℃ shall meet the requirement of conductor stipulated in GB/T3956 standard.

2.Power frequency AC Voltage withstand test for single core cable without shielding, impose test voltage 3.5kV/5min between conductor and water when be immersed in the water for one hour. For multi-core cable, between each insulated conductor and other conductor, impose test voltage 3.5kV/5min.

标称截面 mm ² 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 The maximum DC resistance value of conductor at 20℃	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524	0.387
标称截面 mm ² Nominal cross section area	70	95	120	150	185	240	300	400	500
20℃时导体最大直流电阻 Ω/km The maximum DC resistance value of conductor at 20℃	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366

七、电缆近似外径及近似重量（表1~表8）

Approximate outer diameter and weight of cable
(From table1 to table8)

Table1

芯数×标称截面 mm² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outer diameter of cable	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outer diameter of cable
		VV/VLV		VV62/VLV62	
1×1.5	0.8	1.4	5.8	/	/
1×2.5	0.8	1.4	6.2	/	/
1×4	1.0	1.4	7.1	/	/
1×6	1.0	1.4	7.6	/	/
1×10	1.0	1.4	8.9	1.4	12.4
1×16	1.0	1.4	9.9	1.4	13.4
1×25	1.2	1.4	11.7	1.4	15.2
1×35	1.2	1.4	12.6	1.4	16.2
1×50	1.4	1.4	14.6	1.5	18.1
1×70	1.4	1.4	16.3	1.5	19.8
1×95	1.6	1.5	18.5	1.6	22.0
1×120	1.6	1.5	20.2	1.6	23.7
1×150	1.8	1.6	22.5	1.7	26.0
1×185	2.0	1.7	24.8	1.8	28.3
1×240	2.2	1.8	27.8	1.9	31.5
1×300	2.4	1.9	30.7	1.9	34.2
1×400	2.6	2.0	34.7	2.1	38.0
1×500	2.8	2.1	39.0	2.2	43.0
1×630	2.8	2.2	41.0	2.3	46.0
1×800	2.8	2.3	45.0	2.5	50.6

Table2

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
2×1.5	0.8	1.8	10.4	/	1.8	/	/
2×2.5	0.8	1.8	11.3	/	1.8	/	/
2×4	1.0	1.8	13.0	/	1.8	16.0	/
2×6	1.0	1.8	13.9	/	1.8	17.1	/
2×10	1.0	1.8	16.5	/	1.8	19.8	/
2×16	1.0	1.8	18.6	/	1.8	21.8	/
2×25	1.2	1.8	22.0	/	1.8	25.3	/
2×35	1.2	1.8	24.2	/	1.8	27.5	/
2×50	1.4	1.8	26.0	20.3	1.8	28.8	23.6
2×70	1.4	1.9	30.2	22.7	1.9	33.0	26.0
2×95	1.6	2.0	35.0	26.2	2.1	39.2	29.1
2×120	1.6	2.1	39.0	28.8	2.2	43.2	32.6
2×150	1.8	2.2	42.6	32.2	2.4	47.0	36.2
2×185	2.0	2.4	46.6	35.8	2.5	50.8	39.5
2×240	2.2	2.6	51.0	41.0	2.7	56.0	45.0
2×300	2.4	2.7	58.0	48.0	2.9	64.0	63.0
2×400	2.6	3.0	63.0	53.0	3.1	70.0	68.0

Table3

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
3×1.5	0.8	1.8	10.6	/	1.8	/	/
3×2.5	0.8	1.8	11.7	/	1.8	/	/
3×4	1.0	1.8	13.6	/	1.8	16.6	/
3×6	1.0	1.8	14.7	/	1.8	17.7	/
3×10	1.0	1.8	17.4	/	1.8	20.4	/
3×16	1.0	1.8	19.7	/	1.8	22.7	/
3×25	1.2	1.8	23.4	/	1.8	26.4	/
3×35	1.2	1.8	25.8	/	1.8	28.8	/
3×50	1.4	1.8	27.7	25.5	1.9	30.7	28.5
3×70	1.4	2.0	32.4	28.4	2.0	35.2	31.7
3×95	1.6	2.1	37.5	32.8	2.2	41.7	36.7
3×120	1.6	2.2	41.8	35.7	2.3	46.0	39.6
3×150	1.8	2.3	45.7	40.0	2.5	50.1	44.0
3×185	2.0	2.5	50.0	44.4	2.6	54.6	48.6
3×240	2.2	2.7	57.0	49.7	2.8	61.6	53.9
3×300	2.4	2.9	62.6	54.3	3.0	67.2	58.7
3×400	2.6	3.1	70.0	62.0	3.3	75.0	70.0
3×500	2.8	3.2	79.0	71.0	3.4	83.0	75.0

Table4

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
4×2.5	0.8	1.8	12.2	/	1.8	/	/
4×4	1.0	1.8	15.0	/	1.8	18.0	/
4×6	1.0	1.8	16.2	/	1.8	19.2	/
4×10	1.0	1.8	19.7	/	1.8	22.7	/
4×16	1.0	1.8	22.0	/	1.8	25.0	/
4×25	1.2	1.8	26.0	/	1.8	29.0	/
4×35	1.2	1.8	28.7	/	1.9	31.7	/
4×50	1.4	1.9	30.7	30.4	2.0	33.7	33.4
4×70	1.4	2.1	35.9	33.8	2.2	40.1	37.0
4×95	1.6	2.2	41.7	38.2	2.4	46.1	41.5
4×120	1.6	2.4	46.6	42.0	2.5	50.8	45.5
4×150	1.8	2.5	50.9	46.4	2.6	55.5	49.9
4×185	2.0	2.7	55.7	51.2	2.8	60.3	54.9
4×240	2.2	2.9	63.5	55.3	3.0	68.1	59.0
4×300	2.4	3.1	69.5	64.5	3.2	74.3	68.2

Table5

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
3×4+1×2.5	1.0/0.8	1.8	14.5	/	1.8	17.5	/
3×6+1×4	1.0/1.0	1.8	16.1	/	1.8	19.1	/
3×10+1×6	1.0/1.0	1.8	18.9	/	1.8	21.9	/
3×16+1×10	1.0/1.0	1.8	21.6	/	1.8	24.6	/
3×25+1×16	1.2/1.0	1.8	25.0	/	1.8	28.0	/
3×35+1×16	1.2/1.0	1.8	27.6	/	1.8	30.6	/
3×50+1×25	1.4/1.2	1.9	29.6	29.6	1.9	32.2	32.6
3×70+1×50	1.4/1.4	2.1	33.9	33.2	2.1	36.9	36.2
3×95+1×50	1.6/1.4	2.2	39.1	38.0	2.3	43.3	42.1
3×120+1×70	1.6/1.4	2.4	44.0	41.5	2.4	48.2	45.5
3×150+1×70	1.8/1.4	2.5	47.2	44.6	2.5	51.4	48.4
3×185+1×95	2.0/1.6	2.7	52.3	49.7	2.7	56.9	54.2
3×240+1×120	2.2/1.6	2.9	59.4	55.9	2.9	64.0	60.3
3×300+1×150	2.4/1.8	3.1	65.2	61.6	3.1	69.8	66.0

Table6

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable
			紧压圆形导体 Compact circular conductor		紧压圆形导体 Compact circular conductor
		VV/VLV			VV22/VLV22
5×4	1.0	1.8	16.0	1.8	19.0
5×6	1.0	1.8	17.0	1.8	20.0
5×10	1.0	1.8	20.0	1.8	24.0
5×16	1.0	1.8	23.0	1.8	27.0
5×25	1.2	1.8	27.0	1.8	31.0
5×35	1.2	1.9	30.0	2.0	33.0
5×50	1.4	2.1	35.0	2.2	40.0
5×70	1.4	2.2	40.0	2.3	45.0
5×95	1.6	2.4	46.0	2.5	52.0
5×120	1.6	2.5	50.0	2.6	56.0
5×150	1.8	2.7	55.0	2.8	61.0
5×185	2.0	2.9	62.0	3.0	67.0
5×240	2.2	3.1	70.0	3.2	76.0
5×300	2.4	3.3	77.0	3.5	84.0

Table7

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
4×4+1×2.5	1.0/0.8	1.8	15.0	/	1.8	19.0	/
4×6+1×4	1.0/1.0	1.8	17.0	/	1.8	20.0	/
4×10+1×6	1.0/1.0	1.8	20.0	/	1.8	23.0	/
4×16+1×10	1.0/1.0	1.8	23.0	/	1.8	26.0	/

4×25+1×16	1.2/1.0	1.8	26.0	/	1.8	30.0	/
4×35+1×16	1.2/1.0	1.8	28.0	/	1.9	32.0	/
4×50+1×25	1.4/1.2	2.0	34.0	32.0	2.1	39.0	35.0
4×70+1×50	1.4/1.4	2.1	39.0	35.0	2.2	44.0	40.0
4×95+1×50	1.6/1.4	2.3	44.0	41.0	2.4	49.0	45.0
4×120+1×70	1.6/1.4	2.5	48.0	45.5	2.6	54.0	50.0
4×150+1×70	1.8/1.4	2.6	53.0	49.3	2.7	58.0	54.0
4×185+1×95	2.0/1.6	2.8	59.0	55.2	2.9	65.0	60.0
4×240+1×120	2.2/1.6	3.0	66.0	62.0	3.1	72.0	67.0
4×300+1×150	2.4/1.8	3.2	73.0	68.5	3.3	80.0	73.0

Table8

芯数×标称截面 mm ² Core number×nominal cross section area	绝缘厚度 mm Insulation thickness	护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable		护套厚度 mm Sheath thickness	电缆近似外径 mm Approximate outerdiameter of cable	
			紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor		紧压圆形导体 Compact circular conductor	成型导体 Shaped conductor
		VV/VLV			VV22/VLV22		
3×4+2×2.5	1.0/0.8	1.8	15.0	/	1.8	18.0	/
3×6+2×4	1.0/1.0	1.8	16.0	/	1.8	20.0	/
3×10+2×6	1.0/1.0	1.8	19.0	/	1.8	23.0	/
3×16+2×10	1.0/1.0	1.8	22.0	/	1.8	26.0	/
3×25+2×16	1.2/1.0	1.8	25.0	/	1.8	29.0	/
3×35+2×16	1.2/1.0	1.8	27.0	/	1.9	31.0	/
3×50+2×25	1.4/1.2	1.9	32.0	/	2.0	37.0	/
3×70+2×35	1.4/1.4	2.1	37.0	35.0	2.2	42.0	40.0
3×95+2×50	1.6/1.4	2.2	42.0	40.0	2.4	47.0	46.0
3×120+2×70	1.6/1.4	2.4	46.0	45.0	2.5	52.0	50.0
3×150+2×70	1.8/1.4	2.5	50.0	49.0	2.6	56.0	53.0
3×185+2×95	2.0/1.6	2.7	56.0	55.0	2.8	62.0	59.5
3×240+2×120	2.2/1.6	2.9	63.0	62.0	3.0	69.0	66.0
3×300+2×150	2.4/1.8	3.1	69.0	68.0	3.2	76.0	73.0

八、电缆载流量 (0.6/1kV)

在空气中敷设

- 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℃，
- 3、不同敷设方式下载流量修正系数表。

Current-loading capacity of cable

To be laid in the air

- 1.Center distance for laying single core cable in parallel 185mm² or lower: 2 times that of cable diameter.240mm² or higher 90mm.
- 2.Max.working temperature of conductive core is 70℃.
- 3.Current-loading capacity correcting coefficient table for different laying methods.

环境温度不同时的载流量修正系数表

Current-loading capacity correcting coefficient under different environment temperature

导体工作温度 (°C) Working temperature	环境温度 (°C) Environment temperature(°C) (in the Air)									敷设方式 Laying method
	10	15	20	25	30	35	40	45	50	
70	1.30	1.30	1.29	1.22	1.15	1.08	1.00	0.91	0.81	空气中 In the air
	1.15	1.11	1.05	1.00	0.94	0.88	/	/	/	土壤中 In the soil

不同土壤热阻系数的载流量修正系数

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

电压 (kV) Voltage	土壤热阻系数ρW = (K.m/W) Heat-resistant coefficient of soil			
	0.8	1.0	1.2	1.5
0.6/1~6/6	1.08	1.0	0.95	0.77

4、0.6/1kV铜导体PVC绝缘PVC护套阻燃或非阻燃电力
电缆载流量

0.6/1kV Cu conductor, PVC insulation, PVC sheath, flame
retardant or non-flame retardant power cable carrying capacity.

4.1 PVC绝缘电缆载流量（空气中）

Current-loading capacity of PVC insulation cable（in the air）

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量（A） Current-loading capacity（A）							
2.5	24	19	31	24	25	19	21	17
4	32	25	41	32	33	26	28	22
6	40	33	52	43	42	34	36	29
10	55	42	70	55	58	44	49	38
16	74	58	97	75	76	59	66	51
25	95	74	120	96	98	76	84	65
35	115	90	150	115	120	93	100	80
50	140	110	180	140	145	115	125	98
70	180	140	230	180	185	145	160	120
95	220	170	280	215	230	170	195	150
120	255	200	325	255	265	205	235	180
150	295	230	375	290	305	235	260	200
185	340	265	430	335	350	275	305	235
240	405	320	515	400	-	-	360	280
300	470	370	595	465	-	-	410	320
400	550	435	700	550	-	-	485	380
500	635	510	810	640	-	-	-	-
630	735	600	950	760	-	-	-	-
800	830	695	1090	880	-	-	-	-
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				40℃				

备注：

1) 三角形排列时电缆彼此相互接触。

2) 平面排列时电缆中心间距为2倍的电缆外径。

3) 单根电缆分离敷设（即临近电缆对该电缆没有效应）。

4) 指电缆周围环境的土壤，或者说指电缆周围土壤发生水分迁移前的土壤。

5) 发生水分迁移时，当电缆周围土壤呈现干燥域时，应按该栏目下选择载流量。根据土壤类型不同土壤热阻系数大致分为：一般性土壤取2.0，沙（砂）质土壤取2.5，粘土取3.0（K.m/W）。

6) 试验表明：VV32，VV33，VLV32，VLV33型号单芯电缆应按本表相应规格下的载流量70%-60%（载流量下降率随着导体截面增加呈递减趋势选取）。

Note:1.The cables are in contact with each other when arranged in triangles.

2.When the cables are arranged in a plane, the distance between the center of the cables is twice the outer diameter of the cables

3..Separate laying of single cable (i.e. adjacent cable has no effect on the cable)

4.Refers to the soil around the cable, or refers to the soil around the cable before water migration occurs.

5)Water migration occurs. When the soil around the cable presents dry alkali, the carrying capacity should be selected under this column. According to different soil types, soil thermal resistance coefficient can be roughly divided into: general soil 2.0, sandy (sandy) soil 2.5, clay 3.0 (K.m/W

6. The test shows that: VV32,VV33,VLV32,VLV33single core steel wire armored cable should have a capacity of 70%-60% according to the corresponding specifications in this table (the rate of capacity decline is selected in a decreasing trend with the increase of conductor cross section).

4.2 PVC绝缘电缆载流量（土壤中）

Current-loading capacity of PVC insulation cable (in the soil)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	81	62	84	65	84	65	72	55
16	105	82	110	85	110	85	94	73
25	130	100	135	105	140	110	120	94
35	160	120	165	125	175	135	145	110
50	185	145	195	150	205	160	175	135
70	230	180	240	185	255	195	210	165
95	275	215	290	225	305	235	255	200
120	315	245	325	255	350	270	295	230
150	350	275	370	285	390	305	330	255
185	395	310	420	325	440	345	370	290
240	460	360	485	380	-	-	425	335
300	515	405	550	430	-	-	480	375
400	585	465	630	490	-	-	555	435
500	655	530	715	565	-	-	-	-
630	740	605	820	655	-	-	-	-
800	810	675	920	740	-	-	-	-
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				25℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.3 PVC绝缘电缆载流量（空气管道中）

Current-loading capacity of PVC insulation cable (in the air duct)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	49	37	54	42	44	34	37	29
16	66	51	73	56	58	45	49	38
25	83	65	93	72	73	56	61	48
35	100	79	110	87	89	69	75	58

50	125	95	135	105	105	84	92	71
70	155	120	170	130	135	105	115	89
95	190	145	205	160	165	130	140	110
120	215	170	240	185	195	150	170	130
150	250	195	275	210	220	170	190	145
185	290	225	315	245	255	200	220	170
240	345	265	375	290	-	-	260	205
300	395	310	435	335	-	-	300	225
400	465	365	510	395	-	-	355	280
500	540	430	590	465	-	-	-	-
630	630	505	695	550	-	-	-	-
800	720	585	800	640	-	-	-	-
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				40℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.4 PVC绝缘电缆载流量（土壤管道中）

Current-loading capacity of PVC insulation cable (in the soil pipe)

型号 Type	VV VY VLV VLY ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil							
	1.0							
芯数 Cores	单芯 Single core				二芯 Two cores		三~五芯 Three to five cores	
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	62	47	63	48	25	20	47	36
16	81	63	83	64	33	26	62	48
25	100	80	105	82	42	34	78	61
35	120	96	125	98	56	43	95	73
50	145	115	150	115	73	57	115	89
70	180	140	185	145	93	72	140	110
95	220	170	225	175	110	87	170	135
120	250	195	255	200	135	105	200	155
150	285	220	290	225	165	130	225	175
185	325	250	335	260	205	160	260	200
240	380	295	390	305	235	185	305	240
300	430	335	450	350	270	210	350	275
400	500	390	520	410	310	240	405	320
500	570	450	600	475	-	-	-	-
630	655	525	695	550	-	-	-	-
800	740	600	790	635	-	-	-	-
工作温度 Working temperature				70℃				

环境温度 Environment temperatue	25℃
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注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

4.5 PVC绝缘电缆载流量（土壤管道中）

Current-loading capacity of PVC insulation cable (in the soil pipe)

型号 Type	VV22 VY22 VLV22 VLY22 ⁶⁾							
电压等级 Voltage	0.6/1kV							
土壤热阻系数 (K.m/W) Soil thermal resistance coefficient	自然土壤 ⁴⁾ Natural soil		电缆周围呈现干燥域 ⁵⁾ There is dry field around the cable					
	1.0		2.0		2.5		3.0	
芯数 Cores	三~五芯 Three to five cores							
排列 Array	 ¹⁾		 ²⁾		 ³⁾		 ³⁾	
截面 mm ² Nominal cross-section area	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al
	载流量 (A) Current-loading capacity (A)							
10	70	54	-	-	-	-	-	-
16	92	71	-	-	-	-	-	-
25	115	92	-	-	-	-	-	-
35	140	110	135	105	135	105	135	105
50	175	130	165	125	160	125	160	125
70	205	160	200	155	195	150	195	150
95	250	195	240	185	240	185	235	180
120	290	225	275	215	275	210	270	210
150	325	250	310	240	305	235	305	235
185	365	285	345	270	345	265	340	265
240	420	330	400	315	395	310	395	305
300	475	370	455	355	450	350	445	350
400	540	430	515	410	510	405	505	400
工作温度 Working temperature				70℃				
环境温度 Environment temperatue				25℃				

注1、2、3、4、5、6同4.1条PVC绝缘0.6/1kV低压电力电缆

Note:1~6 are the same as clause 4.1 described PVC insulation and PVC sheath power cable with rated voltage 0.6/1kV.

九、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%.