天康集团

2023年版

# 电线电缆选型样本

# Wires&Cables Catalogue

安徽天康（集团）股份有限公司

ANHUI TIANKANG (GROUP) SHARES CO.,LTD.

安徽天康集团

INNOVATION MAKES EXCELLENT

有丨跨丨越丨才丨有丨卓丨越

安徽天康(集团)股份有限公司

ANHUI TIANKANG (GROUP) SHARES CO.,LTD.




# 关于天康

- 长江宛如一条巨龙奔腾不息，在长江之滨的天长市有这样一颗璀璨的明珠——安徽天康（集团）股份有限公司，在经历了岁月的历练与洗礼后愈发闪耀夺目。

安徽天康（集团）股份有限公司创建于1974年，总部位于“长三角”经济圈核心区域—天长市，是中国民营企业制造业500强企业、中国电子信息百强企业、国家级守合同重信用企业、国家高新技术企业、安徽省依法纳税先进企业、银行资信AAA级企业、中国仪表行业十强企业、中国电线电缆十强企业、安徽省重点骨干企业、“全国五一劳动奖状”获得者等荣誉。

天康集团历经半个世纪的蓬勃发展，已形成集仪器仪表、电缆光缆、医疗医药、智能电气等跨行业、多元化的集团公司，下属子公司达二十余家。旗下产品凭借良好的质量与服务，被广泛应用于石油、电力、化工、通讯、卫生、新能源汽车及储能等行业和领域。

作为皖东经济最具活力与贡献的骨干企业之一，天康集团以“追求卓越，缔造满意”为目标，依托一流的产品、一流的管理、一流的服务，不仅在国内市场中赢得了广泛赞誉；在国际市场中，天康产品远销欧洲、非洲、亚洲等46个国家和地区。

天康集团在发展中逐步形成了独特的品牌文化及着眼全球的经营部局，全力塑造“高科技、高品质、国际化”的品牌形象。始终秉承“有跨越才有卓越”的天康精神，在创建和谐企业的基础上，引进国际先进的构架与模式，组织企业的生产经营管理体系。在积极参与国际化竞争的基础上，不断把握市场发展脉搏，寻求经济战略联盟，与全球伙伴共同发展与进步。如今天康人将全新的投入化为无私的奉献，与世界共同发展，与人类一起进步。

# 打造百年天康 拉动千亿产业

引领中国民族工业发展，成为技术领先与产品领先型企业，
备受瞩目的国际化经营公司。




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天康集团电线电缆选型样本

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# 电力电缆 Power cable





35kV及以下交联聚乙烯绝缘电力电缆

Power Cable with XLPE Insulation for rated voltages from 1kV up to 35kV

0.6/1kV及以下聚氯乙烯绝缘电力电缆

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

变频电机用交联聚乙烯绝缘电缆（变频电缆）

XLPE Insulation Cable for Variable Frequency Motor Application(Frequency Conversion Cable)

氟塑料绝缘（阻燃）电力电缆

(Flame retardant)power cable with Fluoroplastic insulation

硅橡胶绝缘（阻燃）电力电缆

(Flame retardant)Power cable with Silicon insulation

硅橡胶绝缘（阻燃）扁电力电缆

(Flame retardant)Flat power cable with Silicon insulation

# 35kV及以下交联聚乙烯绝缘电力电缆

## Power Cable with XLPE Insulation for rated voltages from 1kV up to 35kV

本产品适用于固定敷设在交流50Hz，额定电压35kV及以下的电力输配电线路上作输送电能用。与聚氯乙烯绝缘电力电缆相比，交联电力电缆产品不仅具有优异的电气性能、机械性能、耐热老化性能、耐环境应力和耐化学腐蚀性能的能力，而且结构简单，重量轻，不受敷设落差限制，长期工作温度90℃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/T12706.1-2020~GB/T12706.3-2020《额定电压1kV（Um=1.2kV）到35kV（Um=40.5kV）挤包绝缘电力电缆》，也可按用户需要，采用国际电工委员会IEC60502标准生产。

### Executive standard

GB/T12706.1-2020~GB/T12706.3-2020《Power cables with extruded insulation and their accessories for rated voltages from 1kV（Um=1.2 kV）to 35kV（Um=40.5 kV）》.We also can use the IEC60502 standard for production 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：

多芯电缆无铠装不小于电缆外径的15倍，有铠装不小于电缆外径的12倍；

单芯电缆无铠装不小于电缆外径的20倍，有铠装不小于电缆外径的15倍；

5、电缆的工频额定电压$U_0/U$为0.6/1kV~26/35kV。

$U_0$：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；

$U_m$：设备可承受的“最高系统电压”的最大值。

### Working Condition

1、Long-term allowable working temperature by cable conductor is no more than 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:

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

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

5、Power frequency rated voltage $U_0/U$ of cable is 0.6/1kV~26/35kV.

$U_0$: Power frequency rated voltage of the conductor for cable designing to earth or between metallic, which is called phase voltage.

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

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

### 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 |
| 交联聚乙烯或交联聚烯烃 | YJ |
| 聚氯乙烯 | V |
| 聚乙烯或聚烯烃 | 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 |

### 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 |
| XLPE or polyolefin | YJ |
| PVC | V |
| PE or polyolefin | Y |

2.Structure Code

| | |
|---|---|
| Double steel tape armor | 2 |
| Round steel wire armor | 3 |
| Thick round steel wire armor | 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
聚乙烯或聚烯烃外护套 …… 3

(Double) non-magnetic metallic tape armor …… 6
Non-magnetic metallic wire armor …… 7
PVC Outer sheath …… 2
PE or polyolefin Outer sheath …… 3

## 四、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<br>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。<br>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或聚烯烃护套电力电缆<br>Power cable with XLPE insulation, PE or Polyolefin sheath | |
| YJV22 | YJLV22 | 交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆<br>Power cable with XLPE insulation,steel tape armored, PVC sheath | 直埋敷设在地下（埋设深度：距地面≥0.7m），电缆能承受一定机械外力作用，但不能承受大的拉力。<br>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. |
| YJY23 | YJLY23 | 交联聚乙烯绝缘钢带铠装聚乙烯或聚烯烃护套电力电缆<br>Power cable with XLPE insulatio,steel tape armored, Polyethylene or Polyolefin sheath | |
| YJV32 | YJLV32 | 交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆<br>Power cable with XLPE insulation，steel wire armored, PVC sheath. | 敷设在水中或具有落差较大的土壤中，电缆能承受相当的拉力。<br>To be laid in the water or in the soil with a large drop,cable can bear considerable pulling force. |
| YJY33 | YJLY33 | 交联聚乙烯绝缘细钢丝铠装聚乙烯或聚烯烃护套电力电缆<br>Power cable with XLPE insulation，steel wire armored, PE sheath or polyolefin sheath. | |
| YJV42 | YJLV42 | 交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆<br>Power cable with XLPE insulation，thick steel wire armored，PVC sheath. | 敷设在水中及落差较大的隧道或竖井中，电缆能承受较大的拉力。<br>To be laid in the water and in the tunnel or shaft with a large drop,cable can bear large pulling force. |
| YJY43 | YJLY43 | 交联聚乙烯绝缘粗钢丝铠装聚乙烯或聚烯烃护套电力电缆<br>Power cable with XLPE insulation，thick steel wire armored，PE sheath or polyolefin sheath. | |

备注：
①阻燃电缆、无卤低烟阻燃电缆、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-”，
无卤低烟阻燃型的，在原型号前加“WDZ-” “WDZA-” “WDZB-” “WDZC” “WDZD-”，
无卤低烟低毒阻燃型的，在原型号前加“WDUZ-” “WDUZA-” “WDUZB-” “WDUZC” “WDUZD-”。
③耐火型电缆，在原型号前加“N-” “ZAN-” “ZBN-” “ZCN” “ZDN-”，
无卤低烟阻燃耐火电缆，在原型号前加“WDZN-” “WDZAN-” “WDZBN-” “WDZCN” “WDZDN-”，
无卤低烟低毒阻燃型耐火电缆，在原型号前加“WDUZN-” “WDUZAN-” “WDUZBN-” “WDUZCN” “WDUZDN-”。
④低烟低卤阻燃电缆，在原型号前加“DDZ-” “DDZA-” “DDZB-” “DDZC” “DDZD-”。
⑤低烟无卤阻燃B1级电缆，在原型号前加“WDZB1”或“WDZB1N”。

Note:
①The names and models of flame retardant cables, halogen-free low smoke 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;For halogen-free low-smoke flame retardant type, add "WDZ-", "WDZA-", "WDZB-", "WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-", "WDUZA-", "WDUZB-", "WDUZC" and "WDUZD-" before the original model.
③For fire-resistant cable type , add "–", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model;
Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-", "WDZAN-", "WDZBN-", "WDZCN" and "WDZDN-" before the original model;
Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-", "WDUZAN-", "WDUZBN-", "WDUZCN" and "WDUZDN-" are added 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.
⑤For Halogen-free low smoke class B1 flame retardant cable type, add "WDZB1"or"WDZB1N"before the original model.

## 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<br>6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/20<br>18/30 | 21/35 | 26/35 |
| YJV<br>YJY | YJLV<br>YJLY | 1 | 1.5~800 | 10~800 | 25~630 | 25~630 | 25~630 | 25~630 | 50~630 | 50~630 | 50~630 |
| | | 2 | 1.5~400 | 10~400 | / | / | / | / | / | / | / |
| | | 3 | 1.5~500 | 10~500 | 25~400 | 25~400 | 25~400 | 25~400 | 50~400 | 50~400 | 50~400 |
| | | 4 | 1.5~400 | / | / | / | / | / | / | / | / |
| | | 3+1 | 4~400 | 10~400 | / | / | / | / | / | / | / |
| | | 3+2<br>4+1 | 4-400 | / | / | / | / | / | / | / | / |
| | | 5 | 1.5~300 | / | / | / | / | / | / | / | / |
| YJV62<br>YJV72<br>YJY63<br>YJY73 | YJLV62<br>YJLV72<br>YJLY63<br>YJLY73 | 1 | 10~800 | 10~800 | 25~630 | 25~630 | 25~630 | 25~630 | 50~630 | 50~630 | 50~630 |
| YJV22<br>YJV32<br>YJY23<br>YJY43<br>YJY33 | YJLY22<br>YJLY32<br>YJLY23<br>YJLY43<br>YJLY33 | 2 | 4~300 | 10~300 | / | / | / | / | / | / | / |
| | | 3 | 2.5~500 | 10~500 | 25~400 | 25~400 | 25~400 | 25~400 | 50~400 | 50~400 | 50~400 |
| | | 4 | 1.5~400 | / | / | / | / | / | / | / | / |
| | | 3+1 | 4~400 | 10~400 | / | / | / | / | / | / | / |
| | | 3+2<br>4+1 | 4~400 | / | / | / | / | / | / | / | / |
| | | 5 | 2.5~300 | / | / | / | / | / | / | / | / |

## 六、电缆外径尺寸 OD Size of Cable(OD:outer diameter)

YJV-0.6/1kV、YJLV-0.6/1kV Table1

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*1.5 | 0.7 | 1.4 | 5.6 |
| 1*2.5 | 0.7 | 1.4 | 6.0 |
| 1*4 | 0.7 | 1.4 | 6.5 |
| 1*6 | 0.7 | 1.4 | 7.0 |
| 1*10 | 0.7 | 1.4 | 8.2 |
| 1*16 | 0.7 | 1.4 | 9.3 |
| 1*25 | 0.9 | 1.4 | 11.0 |
| 1*35 | 0.9 | 1.4 | 12.0 |
| 1*50 | 1.0 | 1.4 | 13.8 |
| 1*70 | 1.1 | 1.4 | 16.2 |
| 1*95 | 1.1 | 1.5 | 17.2 |
| 1*120 | 1.2 | 1.5 | 19.1 |
| 1*150 | 1.4 | 1.6 | 21.2 |
| 1*185 | 1.6 | 1.6 | 23.1 |
| 1*240 | 1.7 | 1.7 | 26.0 |
| 1*300 | 1.8 | 1.8 | 28.4 |
| 1*400 | 2.0 | 1.9 | 33.1 |
| 1*500 | 2.2 | 2.0 | 37.8 |
| 1*630 | 2.4 | 2.2 | 40.0 |
| 1*800 | 2.6 | 2.3 | 45.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table2

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 2*1.5 | 0.7 | 1.8 | 9.7 | / |
| 2*2.5 | 0.7 | 1.8 | 10.6 | / |
| 2*4 | 0.7 | 1.8 | 11.5 | / |
| 2*6 | 0.7 | 1.8 | 12.6 | / |
| 2*10 | 0.7 | 1.8 | 15.2 | / |
| 2*16 | 0.7 | 1.8 | 17.3 | / |
| 2*25 | 0.9 | 1.8 | 20.0 | / |
| 2*35 | 0.9 | 1.8 | 22.0 | / |
| 2*50 | 1.0 | 1.8 | 25.2 | 19.8 |
| 2*70 | 1.1 | 1.8 | 28.6 | 22.2 |
| 2*95 | 1.1 | 2.0 | 32.8 | 25.2 |
| 2*120 | 1.2 | 2.1 | 37.4 | 28.0 |
| 2*150 | 1.4 | 2.2 | 41.0 | 31.2 |
| 2*185 | 1.6 | 2.3 | 44.8 | 34.2 |
| 2*240 | 1.7 | 2.5 | 51.0 | 38.0 |
| 2*300 | 1.8 | 2.7 | 56.0 | 41.0 |
| 2*400 | 2.0 | 2.9 | 64.0 | 46.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table3

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*1.5 | 0.7 | 1.8 | 10.0 | / |
| 3*2.5 | 0.7 | 1.8 | 10.8 | / |
| 3*4 | 0.7 | 1.8 | 11.8 | / |
| 3*6 | 0.7 | 1.8 | 12.9 | / |
| 3*10 | 0.7 | 1.8 | 15.7 | / |
| 3*16 | 0.7 | 1.8 | 18.0 | / |
| 3*25 | 0.9 | 1.8 | 20.8 | / |
| 3*35 | 0.9 | 1.8 | 22.9 | / |
| 3*50 | 1.0 | 1.8 | 26.8 | 22.6 |
| 3*70 | 1.1 | 1.9 | 30.7 | 26.5 |
| 3*95 | 1.1 | 2.0 | 35.0 | 29.8 |
| 3*120 | 1.2 | 2.1 | 39.9 | 33.0 |
| 3*150 | 1.4 | 2.3 | 44.0 | 36.6 |
| 3*185 | 1.6 | 2.4 | 48.0 | 41.6 |
| 3*240 | 1.7 | 2.6 | 54.7 | 46.4 |
| 3*300 | 1.8 | 2.8 | 59.8 | 50.6 |
| 3*400 | 2.0 | 3.1 | 67.0 | 57.0 |
| 3*500 | 2.2 | 3.3 | 75.5 | 64.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table4

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 4*1.5 | 0.7 | 1.8 | 10.6 | / |
| 4*2.5 | 0.7 | 1.8 | 11.5 | / |
| 4*4 | 0.7 | 1.8 | 12.8 | / |
| 4*6 | 0.7 | 1.8 | 14.0 | / |
| 4*10 | 0.7 | 1.8 | 17.0 | / |
| 4*16 | 0.7 | 1.8 | 19.6 | / |
| 4*25 | 0.9 | 1.8 | 22.8 | / |
| 4*35 | 0.9 | 1.8 | 25.2 | / |
| 4*50 | 1.0 | 1.9 | 29.7 | 27.0 |
| 4*70 | 1.1 | 2.0 | 34.1 | 31.0 |
| 4*95 | 1.1 | 2.1 | 38.8 | 34.6 |
| 4*120 | 1.2 | 2.3 | 44.5 | 39.0 |
| 4*150 | 1.4 | 2.4 | 48.8 | 42.4 |
| 4*185 | 1.6 | 2.6 | 53.6 | 48.0 |
| 4*240 | 1.7 | 2.8 | 60.9 | 51.2 |
| 4*300 | 1.8 | 3.0 | 66.6 | 59.8 |
| 4*400 | 2.0 | 3.3 | 77.0 | 68.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table5

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*4+1*2.5 | 0.7/0.7 | 1.8 | 12.3 | / |
| 3*6+1*4 | 0.7/0.7 | 1.8 | 13.5 | / |
| 3*10+1*6 | 0.7/0.7 | 1.8 | 16.6 | / |
| 3*16+1*10 | 0.7/0.7 | 1.8 | 19.2 | / |
| 3*25+1*16 | 0.9/0.7 | 1.8 | 22.4 | / |
| 3*35+1*16 | 0.9/0.7 | 1.8 | 24.6 | / |
| 3*50+1*25 | 1.0/0.9 | 1.8 | 28.1 | 27.0 |
| 3*70+1*35 | 1.1/0.9 | 1.9 | 32.0 | 31.0 |
| 3*95+1*50 | 1.1/1.0 | 2.1 | 36.7 | 35.2 |
| 3*120+1*70 | 1.2/1.1 | 2.2 | 41.9 | 39.0 |
| 3*150+1*70 | 1.4/1.1 | 2.3 | 45.2 | 41.8 |
| 3*185+1*95 | 1.6/1.1 | 2.5 | 50.0 | 47.0 |
| 3*240+1*120 | 1.7/1.2 | 2.7 | 56.9 | 52.6 |
| 3*300+1*150 | 1.8/1.4 | 2.9 | 62.5 | 57.9 |
| 3*400+1*185 | 2.0/1.6 | 3.3 | 71.0 | 65.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table6

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*4+2*2.5 | 0.7/0.7 | 1.8 | 13.6 | / |
| 3*6+2*4 | 0.7/0.7 | 1.8 | 14.8 | / |
| 3*10+2*6 | 0.7/0.7 | 1.8 | 17.5 | / |

| | | | | |
|---|---|---|---|---|
| 3*16+2*10 | 0.7/0.7 | 1.8 | 20.7 | / |
| 3*25+2*16 | 0.9/0.7 | 1.8 | 24.5 | / |
| 3*35+2*16 | 0.9/0.7 | 1.8 | 26.2 | / |
| 3*50+2*25 | 1.0/0.9 | 1.9 | 30.2 | 27.7 |
| 3*70+2*35 | 1.1/0.9 | 2.0 | 34.2 | 32.2 |
| 3*95+2*50 | 1.1/1.0 | 2.2 | 39.2 | 36.3 |
| 3*120+2*70 | 1.2/1.1 | 2.3 | 44.8 | 40.7 |
| 3*150+2*70 | 1.4/1.1 | 2.4 | 47.8 | 43.5 |
| 3*185+2*95 | 1.6/1.1 | 2.6 | 53.1 | 48.0 |
| 3*240+2*120 | 1.7/1.2 | 2.8 | 60.5 | 53.4 |
| 3*300+2*150 | 1.8/1.4 | 3.0 | 66.0 | 58.0 |
| 3*400+2*185 | 2.0/1.6 | 3.3 | 75.0 | 68.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table7

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 4*4+1*2.5 | 0.7/0.7 | 1.8 | 14.5 | / |
| 4*6+1*4 | 0.7/0.7 | 1.8 | 15.5 | / |
| 4*10+1*6 | 0.7/0.7 | 1.8 | 18.2 | / |
| 4*16+1*10 | 0.7/0.7 | 1.8 | 21.3 | / |
| 4*25+1*16 | 0.9/0.7 | 1.8 | 25.3 | / |
| 4*35+1*16 | 0.9/0.7 | 1.8 | 27.6 | / |
| 4*50+1*25 | 1.0/0.9 | 1.9 | 31.5 | 29.0 |
| 4*70+1*35 | 1.1/0.9 | 2.1 | 36.1 | 33.9 |
| 4*95+1*50 | 1.1/1.0 | 2.2 | 41.1 | 38.0 |
| 4*120+1*70 | 1.2/1.1 | 2.4 | 47.2 | 41.9 |
| 4*150+1*70 | 1.4/1.1 | 2.5 | 51.1 | 45.4 |
| 4*185+1*95 | 1.6/1.1 | 2.7 | 56.2 | 50.3 |
| 4*240+1*120 | 1.7/1.2 | 2.9 | 64.1 | 56.0 |
| 4*300+1*150 | 1.8/1.4 | 3.1 | 70.0 | 67.0 |
| 4*400+1*185 | 2.0/1.6 | 3.4 | 79.0 | 70.0 |

## YJV-0.6/1kV、YJLV-0.6/1kV Table8

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 5*1.5 | 0.7 | 1.8 | 11.4 | / |
| 5*2.5 | 0.7 | 1.8 | 12.5 | / |
| 5*4 | 0.7 | 1.8 | 13.8 | / |
| 5*6 | 0.7 | 1.8 | 15.0 | / |
| 5*10 | 0.7 | 1.8 | 18.5 | / |
| 5*16 | 0.7 | 1.8 | 21.3 | / |
| 5*25 | 0.9 | 1.8 | 26.0 | / |
| 5*35 | 0.9 | 1.8 | 29.5 | / |
| 5*50 | 1.0 | 2.0 | 33.0 | 31.4 |
| 5*70 | 1.1 | 2.1 | 37.7 | 36.8 |
| 5*95 | 1.1 | 2.3 | 43.3 | 41.4 |
| 5*120 | 1.2 | 2.4 | 49.3 | 44.8 |
| 5*150 | 1.4 | 2.6 | 54.3 | 49.6 |

| | | | | |
|---|---|---|---|---|
| 5*185 | 1.6 | 2.8 | 60.0 | 55.0 |
| 5*240 | 1.7 | 3.0 | 67.0 | 62.0 |
| 5*300 | 1.8 | 3.2 | 74.0 | 69.0 |

## YJV62-0.6/1kV、YJLV62-0.6/1kV Table9

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*10 | 0.7 | 1.4 | 12.0 |
| 1*16 | 0.7 | 1.4 | 13.1 |
| 1*25 | 0.9 | 1.4 | 14.8 |
| 1*35 | 0.9 | 1.4 | 15.9 |
| 1*50 | 1.0 | 1.4 | 18.3 |
| 1*70 | 1.1 | 1.5 | 20.0 |
| 1*95 | 1.1 | 1.6 | 21.5 |
| 1*120 | 1.2 | 1.6 | 24.2 |
| 1*150 | 1.4 | 1.7 | 25.6 |
| 1*185 | 1.6 | 1.7 | 27.8 |
| 1*240 | 1.7 | 1.8 | 30.6 |
| 1*300 | 1.8 | 1.9 | 33.4 |
| 1*400 | 2.0 | 2.0 | 37.8 |
| 1*500 | 2.2 | 2.2 | 42.6 |
| 1*630 | 2.4 | 2.3 | 45.0 |
| 1*800 | 2.6 | 2.5 | 51.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table10

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 2*4 | 0.7 | 1.8 | 14.5 | / |
| 2*6 | 0.7 | 1.8 | 15.6 | / |
| 2*10 | 0.7 | 1.8 | 18.2 | / |
| 2*16 | 0.7 | 1.8 | 20.3 | / |
| 2*25 | 0.9 | 1.8 | 23.0 | / |
| 2*35 | 0.9 | 1.8 | 25.0 | / |
| 2*50 | 1.0 | 1.8 | 28.0 | 21.8 |
| 2*70 | 1.1 | 1.9 | 31.6 | 25.7 |
| 2*95 | 1.1 | 2.0 | 35.6 | 28.7 |
| 2*120 | 1.2 | 2.2 | 41.6 | 31.5 |
| 2*150 | 1.4 | 2.3 | 45.2 | 34.7 |
| 2*185 | 1.6 | 2.4 | 49.0 | 38.2 |
| 2*240 | 1.7 | 2.6 | 55.6 | 42.0 |
| 2*300 | 1.8 | 2.8 | 60.5 | 46.0 |
| 2*400 | 2.0 | 3.0 | 69.0 | 52.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table11

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*2.5 | 0.7 | 1.8 | 13.8 | / |
| 3*4 | 0.7 | 1.8 | 14.8 | / |
| 3*6 | 0.7 | 1.8 | 15.9 | / |

| | | | | |
|---|---|---|---|---|
| 3*10 | 0.7 | 1.8 | 18.7 | / |
| 3*16 | 0.7 | 1.8 | 21.0 | / |
| 3*25 | 0.9 | 1.8 | 23.8 | / |
| 3*35 | 0.9 | 1.8 | 25.9 | / |
| 3*50 | 1.0 | 1.8 | 29.6 | 26.1 |
| 3*70 | 1.1 | 2.0 | 33.7 | 30.0 |
| 3*95 | 1.1 | 2.2 | 39.4 | 33.3 |
| 3*120 | 1.2 | 2.3 | 44.3 | 36.5 |
| 3*150 | 1.4 | 2.4 | 48.2 | 40.6 |
| 3*185 | 1.6 | 2.6 | 52.4 | 45.6 |
| 3*240 | 1.7 | 2.7 | 59.3 | 50.4 |
| 3*300 | 1.8 | 2.9 | 64.4 | 55.1 |
| 3*400 | 2.0 | 3.2 | 74.0 | 65.0 |
| 3*500 | 2.2 | 3.4 | 83.0 | 72.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table12

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 4*1.5 | 0.7 | 1.8 | 13.6 | / |
| 4*2.5 | 0.7 | 1.8 | 14.5 | / |
| 4*4 | 0.7 | 1.8 | 15.8 | / |
| 4*6 | 0.7 | 1.8 | 17.0 | / |
| 4*10 | 0.7 | 1.8 | 20.0 | / |
| 4*16 | 0.7 | 1.8 | 22.6 | / |
| 4*25 | 0.9 | 1.8 | 25.8 | / |
| 4*35 | 0.9 | 1.8 | 28.7 | / |
| 4*50 | 1.0 | 1.9 | 32.5 | 30.5 |
| 4*70 | 1.1 | 2.1 | 37.1 | 34.5 |
| 4*95 | 1.1 | 2.3 | 43.2 | 38.6 |
| 4*120 | 1.2 | 2.4 | 48.7 | 43.0 |
| 4*150 | 1.4 | 2.6 | 53.6 | 46.4 |
| 4*185 | 1.6 | 2.7 | 58.2 | 52.5 |
| 4*240 | 1.7 | 2.9 | 65.5 | 55.7 |
| 4*300 | 1.8 | 3.1 | 71.2 | 64.8 |
| 4*400 | 2.0 | 3.4 | 80.0 | 72.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table13

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*4+1*2.5 | 0.7/0.7 | 1.8 | 15.3 | / |
| 3*6+1*4 | 0.7/0.7 | 1.8 | 16.5 | / |
| 3*10+1*6 | 0.7/0.7 | 1.8 | 19.6 | / |
| 3*16+1*10 | 0.7/0.7 | 1.8 | 22.2 | / |
| 3*25+1*16 | 0.9/0.7 | 1.8 | 25.4 | / |
| 3*35+1*16 | 0.9/0.7 | 1.8 | 27.6 | / |
| 3*50+1*25 | 1.0/0.9 | 1.9 | 31.1 | 30.5 |
| 3*70+1*35 | 1.1/0.9 | 2.0 | 35.0 | 34.5 |
| 3*95+1*50 | 1.1/1.0 | 2.2 | 40.9 | 39.2 |
| 3*120+1*70 | 1.2/1.1 | 2.3 | 46.1 | 43.0 |
| 3*150+1*70 | 1.4/1.1 | 2.5 | 49.6 | 45.8 |
| 3*185+1*95 | 1.6/1.1 | 2.6 | 54.6 | 51.5 |

| | | | | |
|---|---|---|---|---|
| 3*240+1*120 | 1.7/1.2 | 2.8 | 61.5 | 57.1 |
| 3*300+1*150 | 1.8/1.4 | 3.0 | 67.1 | 62.9 |
| 3*400+1*185 | 2.0/1.6 | 3.3 | 75.0 | 69.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table14

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 3*4+2*2.5 | 0.7/0.7 | 1.8 | 17.0 | / |
| 3*6+2*4 | 0.7/0.7 | 1.8 | 18.5 | / |
| 3*10+2*6 | 0.7/0.7 | 1.8 | 20.3 | / |
| 3*16+2*10 | 0.7/0.7 | 1.8 | 23.5 | / |
| 3*25+2*16 | 0.9/0.7 | 1.8 | 27.3 | / |
| 3*35+2*16 | 0.9/0.7 | 1.8 | 29.0 | / |
| 3*50+2*25 | 1.0/0.9 | 1.9 | 33.0 | 31.2 |
| 3*70+2*35 | 1.1/0.9 | 2.2 | 37.3 | 35.7 |
| 3*95+2*50 | 1.1/1.0 | 2.3 | 43.3 | 40.3 |
| 3*120+2*70 | 1.2/1.1 | 2.4 | 49.0 | 44.7 |
| 3*150+2*70 | 1.4/1.1 | 2.5 | 52.0 | 47.5 |
| 3*185+2*95 | 1.6/1.1 | 2.7 | 57.7 | 52.5 |
| 3*240+2*120 | 1.7/1.2 | 2.9 | 65.1 | 57.9 |
| 3*300+2*150 | 1.8/1.4 | 3.1 | 72.0 | 63.0 |
| 3*400+2*185 | 2.0/1.6 | 3.4 | 77.0 | 71.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table15

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 4*4+1*2.5 | 0.7 | 1.8 | 17.5 | / |
| 4*6+1*4 | 0.7 | 1.8 | 18.9 | / |
| 4*10+1*6 | 0.7 | 1.8 | 21.0 | / |
| 4*16+1*10 | 0.7/0.7 | 1.8 | 24.1 | / |
| 4*25+1*16 | 0.9/0.7 | 1.8 | 28.1 | / |
| 4*35+1*16 | 0.9/0.7 | 1.8 | 30.4 | / |
| 4*50+1*25 | 1.0/0.9 | 2.0 | 34.5 | 32.5 |
| 4*70+1*35 | 1.1/0.9 | 2.2 | 40.3 | 37.9 |
| 4*95+1*50 | 1.1/1.0 | 2.3 | 45.3 | 42.0 |
| 4*120+1*70 | 1.2/1.1 | 2.5 | 51.4 | 45.9 |
| 4*150+1*70 | 1.4/1.1 | 2.6 | 55.7 | 49.9 |
| 4*185+1*95 | 1.6/1.1 | 2.8 | 60.8 | 54.8 |
| 4*240+1*120 | 1.7/1.2 | 3.0 | 68.7 | 61.0 |
| 4*300+1*150 | 1.8/1.4 | 3.2 | 76.0 | 68.0 |
| 4*400+1*185 | 2.0/1.6 | 3.6 | 79.0 | 70.0 |

## YJV22-0.6/1kV、YJLV22-0.6/1kV Table16

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable | |
|---|---|---|---|---|
| | | | 紧压圆形导体<br>Compact circular conductor | 成型导体<br>Shaped conductor |
| 5*2.5 | 0.7 | 1.8 | 15.5 | / |
| 5*4 | 0.7 | 1.8 | 16.8 | / |
| 5*6 | 0.7 | 1.8 | 18.0 | / |

| | | | | |
|---|---|---|---|---|
| 5*10 | 0.7 | 1.8 | 21.5 | / |
| 5*16 | 0.7 | 1.8 | 24.3 | / |
| 5*25 | 0.9 | 1.8 | 29.5 | / |
| 5*35 | 0.9 | 1.9 | 33.0 | / |
| 5*50 | 1.0 | 2.0 | 35.8 | 34.9 |
| 5*70 | 1.1 | 2.2 | 41.9 | 40.8 |
| 5*95 | 1.1 | 2.4 | 47.5 | 45.4 |
| 5*120 | 1.2 | 2.6 | 53.7 | 49.3 |
| 5*150 | 1.4 | 2.7 | 58.9 | 54.1 |
| 5*185 | 1.6 | 2.9 | 65.0 | 64.0 |
| 5*240 | 1.7 | 3.1 | 73.0 | 71.0 |
| 5*300 | 1.8 | 3.4 | 80.0 | 78.0 |

## YJV-1.8/3kV、YJLV-1.8/3kV Table17

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*10 | 2.0 | 1.4 | 11.0 |
| 1*16 | 2.0 | 1.4 | 12.0 |
| 1*25 | 2.0 | 1.4 | 13.0 |
| 1*35 | 2.0 | 1.4 | 14.5 |
| 1*50 | 2.0 | 1.5 | 15.5 |
| 1*70 | 2.0 | 1.5 | 17.0 |
| 1*95 | 2.0 | 1.6 | 19.0 |
| 1*120 | 2.0 | 1.6 | 21.0 |
| 1*150 | 2.0 | 1.7 | 22.5 |
| 1*185 | 2.0 | 1.7 | 24.0 |
| 1*240 | 2.0 | 1.8 | 27.0 |
| 1*300 | 2.0 | 1.9 | 29.0 |
| 1*400 | 2.0 | 2.0 | 32.5 |
| 1*500 | 2.2 | 2.1 | 36.5 |
| 1*630 | 2.4 | 2.2 | 40.5 |
| 1*800 | 2.6 | 2.2 | 44.0 |

## YJV-1.8/3kV、YJLV-1.8/3kV Table18

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross section area of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 2*10 | 2.0 | 1.8 | 20.0 |
| 2*16 | 2.0 | 1.8 | 22.0 |
| 2*25 | 2.0 | 1.8 | 24.0 |
| 2*35 | 2.0 | 1.8 | 25.6 |
| 2*50 | 2.0 | 1.9 | 28.0 |
| 2*70 | 2.0 | 2.0 | 31.4 |
| 2*95 | 2.0 | 2.1 | 35.0 |
| 2*120 | 2.0 | 2.2 | 38.0 |
| 2*150 | 2.0 | 2.3 | 42.0 |
| 2*185 | 2.0 | 2.4 | 46.0 |
| 2*240 | 2.0 | 2.6 | 49.5 |
| 2*300 | 2.0 | 2.7 | 56.0 |
| 2*400 | 2.0 | 2.9 | 62.0 |

## YJV-1.8/3kV、YJLV-1.8/3kV Table19

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*10 | 2.0 | 1.8 | 22.0 |
| 3*16 | 2.0 | 1.8 | 24.0 |
| 3*25 | 2.0 | 1.8 | 26.5 |
| 3*35 | 2.0 | 1.9 | 29.0 |
| 3*50 | 2.0 | 2.0 | 31.5 |
| 3*70 | 2.0 | 2.1 | 35.5 |
| 3*95 | 2.0 | 2.2 | 39.5 |
| 2*120 | 2.0 | 2.3 | 43.5 |
| 3*150 | 2.0 | 2.4 | 47.0 |
| 3*185 | 2.0 | 2.5 | 50.0 |
| 3*240 | 2.0 | 2.7 | 56.0 |
| 3*300 | 2.0 | 2.8 | 60.0 |
| 3*400 | 2.0 | 3.0 | 67.0 |
| 3*500 | 2.2 | 3.2 | 74.0 |

## YJV62-1.8/3kV、YJLV62-1.8/3kV Table20

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*10 | 2.0 | 1.4 | 13.5 |
| 1*16 | 2.0 | 1.4 | 14.5 |
| 1*25 | 2.0 | 1.4 | 15.5 |
| 1*35 | 2.0 | 1.5 | 16.5 |
| 1*50 | 2.0 | 1.5 | 17.5 |
| 1*70 | 2.0 | 1.6 | 19.5 |
| 1*95 | 2.0 | 1.6 | 21.5 |
| 1*120 | 2.0 | 1.7 | 23.0 |
| 1*150 | 2.0 | 1.7 | 25.0 |
| 1*185 | 2.0 | 1.8 | 26.5 |
| 1*240 | 2.0 | 1.8 | 28.5 |
| 1*300 | 2.0 | 1.9 | 32.0 |
| 1*400 | 2.0 | 2.0 | 36.5 |
| 1*500 | 2.2 | 2.2 | 40.5 |
| 1*630 | 2.4 | 2.3 | 44.5 |
| 1*800 | 2.6 | 2.5 | 48.0 |

## YJV22-1.8/3kV、YJLV22-1.8/3kV Table21

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 2*10 | 2.0 | 1.8 | 22.5 |
| 2*16 | 2.0 | 1.8 | 24.5 |
| 2*25 | 2.0 | 1.8 | 26.5 |
| 2*35 | 2.0 | 1.8 | 28.5 |
| 2*50 | 2.0 | 1.9 | 31.0 |
| 2*70 | 2.0 | 2.0 | 34.5 |
| 2*95 | 2.0 | 2.2 | 39.5 |
| 2*120 | 2.0 | 2.3 | 43.0 |
| 2*150 | 2.0 | 2.4 | 47.0 |
| 2*185 | 2.0 | 2.5 | 51.0 |
| 2*240 | 2.0 | 2.7 | 54.5 |
| 2*300 | 2.0 | 2.8 | 60.0 |
| 2*400 | 2.0 | 3.1 | 68.0 |

## YJV22-1.8/3kV、YJLV22-1.8/3kV Table22

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*10 | 2.0 | 1.8 | 23.5 |
| 3*16 | 2.0 | 1.8 | 26.0 |
| 3*25 | 2.0 | 1.8 | 28.5 |
| 3*35 | 2.0 | 1.9 | 30.5 |
| 3*50 | 2.0 | 2.0 | 33.0 |
| 3*70 | 2.0 | 2.2 | 38.0 |
| 3*95 | 2.0 | 2.3 | 42.5 |
| 2*120 | 2.0 | 2.4 | 46.0 |
| 3*150 | 2.0 | 2.5 | 50.5 |
| 3*185 | 2.0 | 2.6 | 54.5 |
| 3*240 | 2.0 | 2.8 | 58.5 |
| 3*300 | 2.0 | 2.9 | 65.0 |
| 3*400 | 2.0 | 3.2 | 73.0 |
| 3*500 | 2.2 | 3.4 | 82.0 |

## YJV72-1.8/3kV、YJLV72-1.8/3kV Table23

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*10 | 2.0 | 1.4 | 14.5 |
| 1*16 | 2.0 | 1.4 | 16.5 |
| 1*25 | 2.0 | 1.5 | 17.5 |
| 1*35 | 2.0 | 1.5 | 18.5 |
| 1*50 | 2.0 | 1.5 | 19.5 |
| 1*70 | 2.0 | 1.6 | 22.0 |
| 1*95 | 2.0 | 1.7 | 24.0 |
| 1*120 | 2.0 | 1.7 | 25.0 |
| 1*150 | 2.0 | 1.8 | 27.0 |
| 1*185 | 2.0 | 1.8 | 29.5 |
| 1*240 | 2.0 | 1.9 | 31.0 |
| 1*300 | 2.0 | 2.0 | 35.5 |
| 1*400 | 2.0 | 2.1 | 39.0 |
| 1*500 | 2.2 | 2.2 | 42.5 |
| 1*630 | 2.4 | 2.3 | 48.0 |
| 1*800 | 2.6 | 2.6 | 51.5 |

## YJV32-1.8/3kV、YJLV32-1.8/3kV Table24

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 2*10 | 2.0 | 1.8 | 28.0 |
| 2*16 | 2.0 | 1.8 | 30.1 |
| 2*25 | 2.0 | 1.8 | 32.5 |
| 2*35 | 2.0 | 1.9 | 34.3 |
| 2*50 | 2.0 | 2.0 | 38.5 |
| 2*70 | 2.0 | 2.1 | 42.0 |
| 2*95 | 2.0 | 2.2 | 46.0 |
| 2*120 | 2.0 | 2.3 | 51.3 |
| 2*150 | 2.0 | 2.5 | 55.3 |
| 2*185 | 2.0 | 2.6 | 59.2 |
| 2*240 | 2.0 | 2.7 | 63.1 |
| 2*300 | 2.0 | 2.9 | 70.2 |
| 2*400 | 2.0 | 3.0 | 76.0 |

## YJV32-1.8/3kV、YJLV32-1.8/3kV Table25

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*10 | 2.0 | 1.8 | 29.0 |
| 3*16 | 2.0 | 1.8 | 31.5 |
| 3*25 | 2.0 | 1.9 | 34.0 |
| 3*35 | 2.0 | 1.9 | 37.5 |
| 3*50 | 2.0 | 2.1 | 40.5 |
| 3*70 | 2.0 | 2.2 | 44.0 |
| 3*95 | 2.0 | 2.3 | 50.5 |
| 2*120 | 2.0 | 2.4 | 54.0 |
| 3*150 | 2.0 | 2.5 | 58.5 |
| 3*185 | 2.0 | 2.7 | 62.5 |
| 3*240 | 2.0 | 2.8 | 67.0 |
| 3*300 | 2.0 | 3.0 | 74.0 |
| 3*400 | 2.0 | 3.4 | 84.0 |
| 3*500 | 2.2 | 3.6 | 91.5 |

## YJV-3.6/6kV、YJLV-3.6/6kV Table26

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 2.5 | 1.5 | 18.1 |
| 1*35 | 2.5 | 1.5 | 19.0 |
| 1*50 | 2.5 | 1.6 | 20.3 |
| 1*70 | 2.5 | 1.6 | 22.1 |
| 1*95 | 2.5 | 1.7 | 23.7 |
| 1*120 | 2.5 | 1.7 | 25.3 |
| 1*150 | 2.5 | 1.8 | 27.1 |
| 1*185 | 2.5 | 1.8 | 28.8 |
| 1*240 | 2.6 | 1.9 | 31.3 |
| 1*300 | 2.8 | 2.0 | 34.5 |
| 1*400 | 3.0 | 2.1 | 38.5 |
| 1*500 | 3.2 | 2.2 | 42.3 |
| 1*630 | 3.2 | 2.3 | 48.0 |

## YJV-3.6/6kV、YJLV-3.6/6kV Table27

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 2.5 | 2.1 | 36.0 |
| 3*35 | 2.5 | 2.2 | 38.0 |
| 3*50 | 2.5 | 2.3 | 41.2 |
| 3*70 | 2.5 | 2.4 | 44.7 |
| 3*95 | 2.5 | 2.5 | 48.7 |
| 3*120 | 2.5 | 2.6 | 51.7 |
| 3*150 | 2.5 | 2.7 | 55.5 |
| 3*185 | 2.5 | 2.8 | 58.9 |
| 3*240 | 2.6 | 3.0 | 64.7 |
| 3*300 | 2.8 | 3.2 | 72.6 |
| 3*400 | 3.0 | 3.4 | 78.0 |

## YJV62-3.6/6kV、YJLV62-3.6/6kV Table28

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 2.5 | 1.6 | 21.9 |

| | | | |
|---|---|---|---|
| 1*35 | 2.5 | 1.6 | 22.7 |
| 1*50 | 2.5 | 1.7 | 24.0 |
| 1*70 | 2.5 | 1.7 | 25.8 |
| 1*95 | 2.5 | 1.8 | 27.4 |
| 1*120 | 2.5 | 1.8 | 29.0 |
| 1*150 | 2.5 | 1.9 | 31.6 |
| 1*185 | 2.5 | 1.9 | 33.4 |
| 1*240 | 2.6 | 2.0 | 36.0 |
| 1*300 | 2.8 | 2.1 | 38.7 |
| 1*400 | 3.0 | 2.2 | 42.7 |
| 1*500 | 3.2 | 2.3 | 46.2 |
| 1*630 | 3.2 | 2.5 | 51.0 |

## YJV72-3.6/6kV、YJLV72-3.6/6kV Table29

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 2.5 | 1.7 | 24.0 |
| 1*35 | 2.5 | 1.7 | 25.0 |
| 1*50 | 2.5 | 1.8 | 27.0 |
| 1*70 | 2.5 | 1.8 | 28.0 |
| 1*95 | 2.5 | 1.9 | 30.0 |
| 1*120 | 2.5 | 1.9 | 32.0 |
| 1*150 | 2.5 | 2.0 | 33.0 |
| 1*185 | 2.5 | 2.1 | 36.0 |
| 1*240 | 2.6 | 2.1 | 38.0 |
| 1*300 | 2.8 | 2.2 | 41.0 |
| 1*400 | 3.0 | 2.3 | 45.0 |
| 1*500 | 3.2 | 2.4 | 52.0 |
| 1*630 | 3.2 | 2.6 | 56.0 |

## YJV22-3.6/6kV、YJLV22-3.6/6kV Table30

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 2.5 | 2.2 | 40.5 |
| 3*35 | 2.5 | 2.3 | 42.7 |
| 3*50 | 2.5 | 2.4 | 46.0 |
| 3*70 | 2.5 | 2.5 | 49.7 |
| 3*95 | 2.5 | 2.6 | 53.7 |
| 3*120 | 2.5 | 2.8 | 56.8 |
| 3*150 | 2.5 | 2.9 | 60.6 |
| 3*185 | 2.5 | 3.0 | 64.4 |
| 3*240 | 2.6 | 3.2 | 70.2 |
| 3*300 | 2.8 | 3.4 | 78.5 |
| 3*400 | 3.0 | 3.6 | 88.5 |

## YJV32-3.6/6kV、YJLV32-3.6/6kV Table31

| 芯数*导体标称截面（$mm^2$）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 2.5 | 2.3 | 43.0 |
| 3*35 | 2.5 | 2.4 | 47.0 |
| 3*50 | 2.5 | 2.5 | 50.0 |
| 3*70 | 2.5 | 2.6 | 54.0 |
| 3*95 | 2.5 | 2.7 | 57.0 |
| 3*120 | 2.5 | 2.9 | 61.0 |
| 3*150 | 2.5 | 3.0 | 64,0 |

| | | | |
|---|---|---|---|
| 3*185 | 2.5 | 3.1 | 68.0 |
| 3*240 | 2.6 | 3.3 | 75.0 |
| 3*300 | 2.8 | 3.5 | 82.0 |
| 3*400 | 3.0 | 3.7 | 89.0 |

## YJV-6/6kV，6/10kV、YJLV-6/6kV，6/10kV Table32

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 3.4 | 1.6 | 20.3 |
| 1*35 | 3.4 | 1.6 | 21.4 |
| 1*50 | 3.4 | 1.6 | 22.7 |
| 1*70 | 3.4 | 1.7 | 24.3 |
| 1*95 | 3.4 | 1.7 | 25.9 |
| 1*120 | 3.4 | 1.8 | 27.4 |
| 1*150 | 3.4 | 1.8 | 29.0 |
| 1*185 | 3.4 | 1.9 | 30.8 |
| 1*240 | 3.4 | 2.0 | 33.2 |
| 1*300 | 3.4 | 2.0 | 36.2 |
| 1*400 | 3.4 | 2.2 | 37.9 |
| 1*500 | 3.4 | 2.2 | 41.9 |
| 1*630 | 3.4 | 2.4 | 46.0 |

## YJV-6/6kV，6/10kV、YJLV-6/6kV，6/10kV Table33

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 3.4 | 2.2 | 39.4 |
| 3*35 | 3.4 | 2.3 | 42.0 |
| 3*50 | 3.4 | 2.4 | 45.0 |
| 3*70 | 3.4 | 2.5 | 48.7 |
| 3*95 | 3.4 | 2.7 | 52.3 |
| 3*120 | 3.4 | 2.8 | 55.7 |
| 3*150 | 3.4 | 2.9 | 59.4 |
| 3*185 | 3.4 | 3.0 | 63.0 |
| 3*240 | 3.4 | 3.1 | 68.2 |
| 3*300 | 3.4 | 3.3 | 75.0 |
| 3*400 | 3.4 | 3.5 | 82.0 |

## YJV62-6/6kV，6/10kV、YJLV62-6/6kV，6/10kV Table34

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 3.4 | 1.7 | 23.3 |
| 1*35 | 3.4 | 1.7 | 24.5 |
| 1*50 | 3.4 | 1.8 | 25.8 |
| 1*70 | 3.4 | 1.8 | 28.4 |
| 1*95 | 3.4 | 1.9 | 29.4 |
| 1*120 | 3.4 | 1.9 | 30.9 |
| 1*150 | 3.4 | 2.0 | 33.2 |
| 1*185 | 3.4 | 2.0 | 35.0 |
| 1*240 | 3.4 | 2.1 | 38.7 |
| 1*300 | 3.4 | 2.2 | 41.9 |
| 1*400 | 3.4 | 2.3 | 45.3 |
| 1*500 | 3.4 | 2.4 | 48.7 |
| 1*630 | 3.4 | 2.5 | 52.0 |

## YJV22-6/6kV，6/10kV、YJLV22-6/6kV，6/10kV Table35

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 3.4 | 2.4 | 44.7 |
| 3*35 | 3.4 | 2.4 | 47.5 |
| 3*50 | 3.4 | 2.6 | 50.6 |
| 3*70 | 3.4 | 2.7 | 54.3 |
| 3*95 | 3.4 | 2.8 | 58.2 |
| 3*120 | 3.4 | 2.9 | 61.3 |
| 3*150 | 3.4 | 3.0 | 65.5 |
| 3*185 | 3.4 | 3.1 | 69.0 |
| 3*240 | 3.4 | 3.3 | 74.3 |
| 3*300 | 3.4 | 3.5 | 81.0 |
| 3*400 | 3.4 | 3.7 | 90.0 |

## YJV72-6/6kV，6/10kV、YJLV72-6/6kV，6/10kV Table36

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 3.4 | 1.8 | 27.0 |
| 1*35 | 3.4 | 1.8 | 28.0 |
| 1*50 | 3.4 | 1.8 | 29.0 |
| 1*70 | 3.4 | 1.9 | 31.0 |
| 1*95 | 3.4 | 1.9 | 34.0 |
| 1*120 | 3.4 | 2.0 | 35.0 |
| 1*150 | 3.4 | 2.1 | 37.0 |
| 1*185 | 3.4 | 2.1 | 39.0 |
| 1*240 | 3.4 | 2.2 | 41.0 |
| 1*300 | 3.4 | 2.3 | 43.0 |
| 1*400 | 3.4 | 2.4 | 48.0 |
| 1*500 | 3.4 | 2.5 | 51.0 |
| 1*630 | 3.4 | 2.6 | 55.0 |

## YJV32-6/6kV，6/10kV、YJLV32-6/6kV，6/10kV Table37

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 3.4 | 2.5 | 43.0 |
| 3*35 | 3.4 | 2.6 | 47.0 |
| 3*50 | 3.4 | 2.7 | 50.0 |
| 3*70 | 3.4 | 2.8 | 54.0 |
| 3*95 | 3.4 | 2.9 | 57.0 |
| 3*120 | 3.4 | 3.0 | 61.0 |
| 3*150 | 3.4 | 3.1 | 64.0 |
| 3*185 | 3.4 | 3.2 | 68.0 |
| 3*240 | 3.4 | 3.4 | 75.0 |
| 3*300 | 3.4 | 3.6 | 82.0 |
| 3*400 | 3.4 | 3.8 | 93.0 |

## YJV-8.7/10kV，8.7/15kV、YJLV-8.7/10kV，8.7/15kV Table38

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 4.5 | 1.6 | 22.7 |
| 1*35 | 4.5 | 1.7 | 23.8 |
| 1*50 | 4.5 | 1.7 | 25.0 |
| 1*70 | 4.5 | 1.8 | 26.6 |
| 1*95 | 4.5 | 1.8 | 28.5 |

| | | | |
|---|---|---|---|
| 1*120 | 4.5 | 1.9 | 30.0 |
| 1*150 | 4.5 | 1.9 | 31.4 |
| 1*185 | 4.5 | 2.0 | 33.4 |
| 1*240 | 4.5 | 2.1 | 35.8 |
| 1*300 | 4.5 | 2.1 | 38.6 |
| 1*400 | 4.5 | 2.2 | 42.0 |
| 1*500 | 4.5 | 2.3 | 44.6 |
| 1*630 | 4.5 | 2.4 | 49.0 |

**YJV-8.7/10kV，8.7/15kV、YJLV-8.7/10kV，8.7/15kV　Table39**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 4.5 | 2.4 | 45.4 |
| 3*35 | 4.5 | 2.5 | 47.8 |
| 3*50 | 4.5 | 2.6 | 50.7 |
| 3*70 | 4.5 | 2.7 | 54.3 |
| 3*95 | 4.5 | 2.8 | 57.6 |
| 3*120 | 4.5 | 2.9 | 61.3 |
| 3*150 | 4.5 | 3.0 | 64.6 |
| 3*185 | 4.5 | 3.1 | 68.3 |
| 3*240 | 4.5 | 3.3 | 73.5 |
| 3*300 | 4.5 | 3.5 | 80.2 |
| 3*400 | 4.5 | 3.7 | 87.0 |

**YJV62-8.7/10kV，8.7/15kV、YJLV62-8.7/10kV，8.7/15kV　Table40**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 4.5 | 1.7 | 25.9 |
| 1*35 | 4.5 | 1.8 | 27.0 |
| 1*50 | 4.5 | 1.8 | 28.2 |
| 1*70 | 4.5 | 1.9 | 29.8 |
| 1*95 | 4.5 | 1.9 | 31.7 |
| 1*120 | 4.5 | 2.0 | 33.6 |
| 1*150 | 4.5 | 2.0 | 35.2 |
| 1*185 | 4.5 | 2.1 | 38.4 |
| 1*240 | 4.5 | 2.2 | 40.8 |
| 1*300 | 4.5 | 2.3 | 44.0 |
| 1*400 | 4.5 | 2.4 | 47.6 |
| 1*500 | 4.5 | 2.5 | 50.7 |
| 1*630 | 4.5 | 2.6 | 54.0 |

**YJV22-8.7/10kV，8.7/15kV、YJLV22-8.7/10kV，8.7/15kV　Table41**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 4.5 | 2.5 | 50.2 |
| 3*35 | 4.5 | 2.6 | 52.6 |
| 3*50 | 4.5 | 2.7 | 55.4 |
| 3*70 | 4.5 | 2.8 | 59.3 |
| 3*95 | 4.5 | 3.0 | 63.0 |
| 3*120 | 4.5 | 3.1 | 67.0 |
| 3*150 | 4.5 | 3.2 | 70.7 |
| 3*185 | 4.5 | 3.3 | 74.3 |
| 3*240 | 4.5 | 3.5 | 79.5 |
| 3*300 | 4.5 | 3.7 | 86.8 |
| 3*400 | 4.5 | 3.9 | 95.0 |

## YJV72-8.7/10kV，8.7/15kV、YJLV72-8.7/10kV，8.7/15kV　Table42

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 4.5 | 1.9 | 29.0 |
| 1*35 | 4.5 | 1.9 | 30.0 |
| 1*50 | 4.5 | 1.9 | 31.0 |
| 1*70 | 4.5 | 2.0 | 33.0 |
| 1*95 | 4.5 | 2.1 | 36.0 |
| 1*120 | 4.5 | 2.1 | 37.0 |
| 1*150 | 4.5 | 2.1 | 39.0 |
| 1*185 | 4.5 | 2.2 | 40.0 |
| 1*240 | 4.5 | 2.3 | 43.0 |
| 1*300 | 4.5 | 2.3 | 47.0 |
| 1*400 | 4.5 | 2.5 | 50.0 |
| 1*500 | 4.5 | 2.6 | 53.0 |
| 1*630 | 4.5 | 2.7 | 57.0 |

## YJV32-8.7/10kV，8.7/15kV、YJLV32-8.7/10kV，8.7/15kV　Table43

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 4.5 | 2.6 | 54.0 |
| 3*35 | 4.5 | 2.7 | 56.0 |
| 3*50 | 4.5 | 2.8 | 59.0 |
| 3*70 | 4.5 | 2.9 | 63.0 |
| 3*95 | 4.5 | 3.1 | 67.0 |
| 3*120 | 4.5 | 3.2 | 70.0 |
| 3*150 | 4.5 | 3.3 | 75.0 |
| 3*185 | 4.5 | 3.4 | 79.0 |
| 3*240 | 4.5 | 3.6 | 85.0 |
| 3*300 | 4.5 | 3.8 | 90.0 |
| 3*400 | 4.5 | 4.0 | 97.0 |

## YJV-12/20kV、YJLV-12/20kV　Table44

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 5.5 | 1.7 | 24.5 |
| 1*35 | 5.5 | 1.7 | 25.6 |
| 1*50 | 5.5 | 1.8 | 26.9 |
| 1*70 | 5.5 | 1.8 | 28.5 |
| 1*95 | 5.5 | 1.9 | 30.3 |
| 1*120 | 5.5 | 1.9 | 31.8 |
| 1*150 | 5.5 | 2.0 | 33.6 |
| 1*185 | 5.5 | 2.0 | 35.2 |
| 1*240 | 5.5 | 2.1 | 37.6 |
| 1*300 | 5.5 | 2.2 | 40.8 |
| 1*400 | 5.5 | 2.3 | 44.0 |
| 1*500 | 5.5 | 2.4 | 47.2 |
| 1*630 | 5.5 | 2.5 | 51.0 |

## YJV-12/20kV、YJLV-12/20kV　Table45

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 5.5 | 2.6 | 49.2 |
| 3*35 | 5.5 | 2.6 | 51.8 |
| 3*50 | 5.5 | 2.7 | 54.9 |

| | | | |
|---|---|---|---|
| 3*70 | 5.5 | 2.8 | 58.4 |
| 3*95 | 5.5 | 3.0 | 62.2 |
| 3*120 | 5.5 | 3.1 | 65.6 |
| 3*150 | 5.5 | 3.2 | 69.3 |
| 3*185 | 5.5 | 3.3 | 73.2 |
| 3*240 | 5.5 | 3.5 | 78.0 |
| 3*300 | 5.5 | 3.7 | 85.0 |
| 3*400 | 5.5 | 3.8 | 92.0 |

**YJV62-12/20kV、YJLV62-12/20kV　Table46**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*25 | 5.5 | 1.8 | 27.3 |
| 1*35 | 5.5 | 1.9 | 28.7 |
| 1*50 | 5.5 | 1.9 | 30.0 |
| 1*70 | 5.5 | 2.0 | 32.0 |
| 1*95 | 5.5 | 2.0 | 34.2 |
| 1*120 | 5.5 | 2.1 | 35.5 |
| 1*150 | 5.5 | 2.1 | 38.6 |
| 1*185 | 5.5 | 2.2 | 40.2 |
| 1*240 | 5.5 | 2.3 | 42.4 |
| 1*300 | 5.5 | 2.4 | 46.0 |
| 1*400 | 5.5 | 2.5 | 49.3 |
| 1*500 | 5.5 | 2.6 | 52.4 |
| 1*630 | 5.5 | 2.7 | 57.0 |

**YJV22-12/20kV、YJLV22-12/20kV　Table47**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*25 | 5.5 | 2.7 | 54.1 |
| 3*35 | 5.5 | 2.8 | 57.2 |
| 3*50 | 5.5 | 2.9 | 60.2 |
| 3*70 | 5.5 | 3.0 | 63.7 |
| 3*95 | 5.5 | 3.1 | 67.5 |
| 3*120 | 5.5 | 3.2 | 70.9 |
| 3*150 | 5.5 | 3.3 | 74.8 |
| 3*185 | 5.5 | 3.5 | 78.5 |
| 3*240 | 5.5 | 3.7 | 85.0 |
| 3*300 | 5.5 | 3.8 | 93.0 |
| 3*400 | 5.5 | 4.1 | 99.0 |

**YJV72-12/20kV、YJLV72-12/20kV　Table48**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*35 | 5.5 | 1.9 | 32.0 |
| 1*50 | 5.5 | 2.0 | 33.0 |
| 1*70 | 5.5 | 2.1 | 36.0 |
| 1*95 | 5.5 | 2.1 | 37.0 |
| 1*120 | 5.5 | 2.2 | 39.0 |
| 1*150 | 5.5 | 2.2 | 40.0 |
| 1*185 | 5.5 | 2.3 | 42.0 |
| 1*240 | 5.5 | 2.3 | 44.0 |
| 1*300 | 5.5 | 2.5 | 48.0 |
| 1*400 | 5.5 | 2.6 | 51.0 |
| 1*500 | 5.5 | 2.7 | 57.0 |
| 1*630 | 5.5 | 2.8 | 60.5 |

## YJV32-12/20kV、YJLV32-12/20kV　　Table49

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*35 | 5.5 | 2.9 | 65.0 |
| 3*50 | 5.5 | 3.0 | 68.0 |
| 3*70 | 5.5 | 3.1 | 72.0 |
| 3*95 | 5.5 | 3.2 | 76.0 |
| 3*120 | 5.5 | 3.4 | 80.0 |
| 3*150 | 5.5 | 3.5 | 83.0 |
| 3*185 | 5.5 | 3.6 | 87.0 |
| 3*240 | 5.5 | 3.8 | 94.0 |
| 3*300 | 5.5 | 3.9 | 96.0 |
| 3*400 | 5.5 | 4.2 | 102.0 |

## YJV-18/20kV、YJLV-18/20kV、 YJV-18/30kV、YJLV-18/30kV　　Table50

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 8.0 | 2.0 | 33.0 |
| 1*70 | 8.0 | 2.0 | 34.9 |
| 1*95 | 8.0 | 2.1 | 36.5 |
| 1*120 | 8.0 | 2.1 | 38.1 |
| 1*150 | 8.0 | 2.2 | 40.1 |
| 1*185 | 8.0 | 2.2 | 41.5 |
| 1*240 | 8.0 | 2.3 | 43.7 |
| 1*300 | 8.0 | 2.4 | 46.1 |
| 1*400 | 8.0 | 2.5 | 49.4 |
| 1*500 | 8.0 | 2.6 | 52.6 |
| 1*630 | 8.0 | 2.7 | 56.0 |

## YJV62-18/20kV、YJLV62-18/20kV、YJV62-18/30kV、YJLV62-18/30kV　　Table51

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 8.0 | 2.1 | 38.3 |
| 1*70 | 8.0 | 2.2 | 40.0 |
| 1*95 | 8.0 | 2.2 | 41.8 |
| 1*120 | 8.0 | 2.3 | 43.2 |
| 1*150 | 8.0 | 2.3 | 45.0 |
| 1*185 | 8.0 | 2.4 | 47.2 |
| 1*240 | 8.0 | 2.5 | 49.4 |
| 1*300 | 8.0 | 2.5 | 51.8 |
| 1*400 | 8.0 | 2.6 | 55.1 |
| 1*500 | 8.0 | 2.7 | 58.7 |
| 1*630 | 8.0 | 2.9 | 62.0 |

## YJV-18/20kV、YJLV-18/20kV、 YJV-18/30kV、YJLV-18/30kV　　Table52

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 8.0 | 3.1 | 67.0 |
| 3*70 | 8.0 | 3.2 | 71.0 |
| 3*95 | 8.0 | 3.3 | 74.0 |
| 3*120 | 8.0 | 3.5 | 78.0 |
| 3*150 | 8.0 | 3.6 | 81.0 |
| 3*185 | 8.0 | 3.7 | 85.0 |
| 3*240 | 8.0 | 3.8 | 90.0 |
| 3*300 | 8.0 | 4.0 | 95.0 |
| 3*400 | 8.0 | 4.2 | 102.0 |

## YJV22-18/20kV、YJLV22-18/20kV YJV22-18/30kV、YJLV22-18/30kV Table53

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 8.0 | 3.3 | 73.0 |
| 3*70 | 8.0 | 3.4 | 77.0 |
| 3*95 | 8.0 | 3.5 | 81.0 |
| 3*120 | 8.0 | 3.7 | 86.0 |
| 3*150 | 8.0 | 3.8 | 89.0 |
| 3*185 | 8.0 | 3.9 | 93.0 |
| 3*240 | 8.0 | 4.1 | 98.0 |
| 3*300 | 8.0 | 4.2 | 103.0 |
| 3*400 | 8.0 | 4.5 | 110.0 |

## YJV72-18/20kV、YJLV72-18/20kV、YJV72-18/30kV、YJLV72-18/30kV Table54

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 8.0 | 2.2 | 39.0 |
| 1*70 | 8.0 | 2.2 | 41.0 |
| 1*95 | 8.0 | 2.3 | 43.0 |
| 1*120 | 8.0 | 2.3 | 44.0 |
| 1*150 | 8.0 | 2.4 | 47.0 |
| 1*185 | 8.0 | 2.5 | 49.0 |
| 1*240 | 8.0 | 2.6 | 51.0 |
| 1*300 | 8.0 | 2.6 | 54.0 |
| 1*400 | 8.0 | 2.8 | 57.0 |
| 1*500 | 8.0 | 2.8 | 63.0 |
| 1*630 | 8.0 | 3.0 | 65.5 |

## YJV32-18/20kV、YJLV32-18/20kV YJV32-18/30kV、YJLV32-18/30kV Table55

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 8.0 | 3.4 | 78.0 |
| 3*70 | 8.0 | 3.5 | 82.0 |
| 3*95 | 8.0 | 3.7 | 85.0 |
| 3*120 | 8.0 | 3.8 | 89.0 |
| 3*150 | 8.0 | 3.9 | 92.0 |
| 3*185 | 8.0 | 4.0 | 96.0 |
| 3*240 | 8.0 | 4.2 | 102.0 |
| 3*300 | 8.0 | 4.3 | 107.0 |
| 3*400 | 8.0 | 4.6 | 114.0 |

## YJV-21/35kV、YJLV-21/35kV Table56

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 9.3 | 2.1 | 36.4 |
| 1*70 | 9.3 | 2.1 | 38.0 |
| 1*95 | 9.3 | 2.2 | 39.8 |
| 1*120 | 9.3 | 2.2 | 41.3 |
| 1*150 | 9.3 | 2.3 | 43.1 |
| 1*185 | 9.3 | 2.3 | 44.7 |
| 1*240 | 9.3 | 2.4 | 47.1 |
| 1*300 | 9.3 | 2.5 | 49.5 |
| 1*400 | 9.3 | 2.6 | 52.8 |
| 1*500 | 9.3 | 2.7 | 56.0 |
| 1*630 | 9.3 | 2.8 | 63.0 |

## YJV62-21/35kV、YJLV62-21/35kV Table57

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 9.3 | 2.2 | 41.1 |
| 1*70 | 9.3 | 2.3 | 42.8 |
| 1*95 | 9.3 | 2.3 | 44.6 |
| 1*120 | 9.3 | 2.4 | 46.4 |
| 1*150 | 9.3 | 2.4 | 48.2 |
| 1*185 | 9.3 | 2.5 | 49.8 |
| 1*240 | 9.3 | 2.6 | 52.2 |
| 1*300 | 9.3 | 2.6 | 54.6 |
| 1*400 | 9.3 | 2.7 | 58.3 |
| 1*500 | 9.3 | 2.8 | 61.5 |
| 1*630 | 9.3 | 2.9 | 65.0 |

## YJV-21/35kV、YJLV-21/35kV Table58

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 9.3 | 3.3 | 76.0 |
| 3*70 | 9.3 | 3.4 | 80.0 |
| 3*95 | 9.3 | 3.5 | 83.0 |
| 3*120 | 9.3 | 3.6 | 87.0 |
| 3*150 | 9.3 | 3.7 | 90.0 |
| 3*185 | 9.3 | 3.8 | 94.0 |
| 3*240 | 9.3 | 4.0 | 99.0 |
| 3*300 | 9.3 | 4.1 | 104.0 |
| 3*400 | 9.3 | 4.4 | 111.0 |

## YJV22-21/35kV、YJLV22-21/35kV Table59

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 9.3 | 3.5 | 83.0 |
| 3*70 | 9.3 | 3.6 | 88.0 |
| 3*95 | 9.3 | 3.8 | 91.0 |
| 3*120 | 9.3 | 3.9 | 95.0 |
| 3*150 | 9.3 | 4.0 | 98.0 |
| 3*185 | 9.3 | 4.1 | 102.0 |
| 3*240 | 9.3 | 4.3 | 108.0 |
| 3*300 | 9.3 | 4.4 | 113.0 |
| 3*400 | 9.3 | 4.7 | 120.0 |

## YJV72-21/35kV、YJLV72-21/35kV Table60

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 9.3 | 2.3 | 44.0 |
| 1*70 | 9.3 | 2.3 | 47.0 |
| 1*95 | 9.3 | 2.4 | 49.0 |
| 1*120 | 9.3 | 2.5 | 50.0 |
| 1*150 | 9.3 | 2.5 | 52.0 |
| 1*185 | 9.3 | 2.6 | 54.0 |
| 1*240 | 9.3 | 2.7 | 56.0 |
| 1*300 | 9.3 | 2.7 | 59.0 |
| 1*400 | 9.3 | 2.8 | 62.0 |
| 1*500 | 9.3 | 2.9 | 68.0 |
| 1*630 | 9.3 | 3.1 | 72.0 |

## YJV32-21/35kV、YJLV32-21/35kV　Table61

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 9.3 | 3.6 | 87.0 |
| 3*70 | 9.3 | 3.7 | 91.0 |
| 3*95 | 9.3 | 3.9 | 95.0 |
| 3*120 | 9.3 | 4.0 | 98.0 |
| 3*150 | 9.3 | 4.1 | 101.0 |
| 3*185 | 9.3 | 4.2 | 105.0 |
| 3*240 | 9.3 | 4.4 | 111.0 |
| 3*300 | 9.3 | 4.5 | 113.0 |
| 3*400 | 9.3 | 4.8 | 120.0 |

## YJV-26/35kV、YJLV-26/35kV　Table62

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 10.5 | 2.1 | 38.4 |
| 1*70 | 10.5 | 2.2 | 40.1 |
| 1*95 | 10.5 | 2.2 | 41.9 |
| 1*120 | 10.5 | 2.3 | 43.3 |
| 1*150 | 10.5 | 2.3 | 45.1 |
| 1*185 | 10.5 | 2.4 | 46.7 |
| 1*240 | 10.5 | 2.5 | 49.1 |
| 1*300 | 10.5 | 2.5 | 51.5 |
| 1*400 | 10.5 | 2.7 | 54.8 |
| 1*500 | 10.5 | 2.7 | 59.4 |
| 1*630 | 10.5 | 2.9 | 64.0 |

## YJV62-26/35kV、YJLV62-26/35kV　Table63

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 10.5 | 2.3 | 43.5 |
| 1*70 | 10.5 | 2.4 | 45.4 |
| 1*95 | 10.5 | 2.4 | 47.6 |
| 1*120 | 10.5 | 2.5 | 49.0 |
| 1*150 | 10.5 | 2.5 | 50.8 |
| 1*185 | 10.5 | 2.6 | 52.4 |
| 1*240 | 10.5 | 2.6 | 54.8 |
| 1*300 | 10.5 | 2.7 | 57.6 |
| 1*400 | 10.5 | 2.8 | 60.9 |
| 1*500 | 10.5 | 2.9 | 65.2 |
| 1*630 | 10.5 | 3.0 | 70.0 |

## YJV-26/35kV、YJLV-26/35kV　Table64

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 10.5 | 3.5 | 81.0 |
| 3*70 | 10.5 | 3.6 | 85.0 |
| 3*95 | 10.5 | 3.7 | 89.0 |
| 3*120 | 10.5 | 3.8 | 92.0 |
| 3*150 | 10.5 | 3.9 | 96.0 |
| 3*185 | 10.5 | 4.0 | 99.0 |
| 3*240 | 10.5 | 4.2 | 105.0 |
| 3*300 | 10.5 | 4.3 | 110.0 |
| 3*400 | 10.5 | 4.6 | 116.0 |

**YJV22-26/35kV、YJLV22-26/35kV　　Table65**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 10.5 | 3.7 | 90.0 |
| 3*70 | 10.5 | 3.8 | 94.0 |
| 3*95 | 10.5 | 3.9 | 98.0 |
| 3*120 | 10.5 | 4.1 | 101.0 |
| 3*150 | 10.5 | 4.2 | 104.0 |
| 3*185 | 10.5 | 4.3 | 108.0 |
| 3*240 | 10.5 | 4.5 | 114.0 |
| 3*300 | 10.5 | 4.6 | 119.0 |
| 3*400 | 10.5 | 4.9 | 126.0 |

**YJV72-26/35kV、YJLV72-26/35kV　　Table66**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 1*50 | 10.5 | 2.4 | 47.0 |
| 1*70 | 10.5 | 2.5 | 49.0 |
| 1*95 | 10.5 | 2.5 | 51.0 |
| 1*120 | 10.5 | 2.6 | 52.0 |
| 1*150 | 10.5 | 2.6 | 54.0 |
| 1*185 | 10.5 | 2.7 | 56.0 |
| 1*240 | 10.5 | 2.7 | 58.0 |
| 1*300 | 10.5 | 2.8 | 61.0 |
| 1*400 | 10.5 | 2.9 | 64.0 |
| 1*500 | 10.5 | 3.0 | 70.0 |
| 1*630 | 10.5 | 3.1 | 74.0 |

**YJV32-26/35kV、YJLV32-26/35kV　　Table67**

| 芯数*导体标称截面（mm²）<br>Core no. * nominal cross sectionarea of conductor | 绝缘厚度（mm）<br>Insulation thickness | 护套标称厚度（mm）<br>Sheath thickness | 电缆近似外径（mm）<br>Approximate outer diameter of cable |
|---|---|---|---|
| 3*50 | 10.5 | 3.8 | 91.0 |
| 3*70 | 10.5 | 3.9 | 95.0 |
| 3*95 | 10.5 | 4.1 | 99.0 |
| 3*120 | 10.5 | 4.2 | 103.0 |
| 3*150 | 10.5 | 4.3 | 106.0 |
| 3*185 | 10.5 | 4.4 | 110.0 |
| 3*240 | 10.5 | 4.6 | 115.0 |
| 3*300 | 10.5 | 4.7 | 120.0 |
| 3*400 | 10.5 | 5.0 | 127.0 |

*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。
注：若需要电缆重量，另行提供。

The armor layer of single core armored cable used in AC system. shall be made of non-magnetic metallic material.
Note:The cable weight shall be provided separately if required.

## 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标准中的规定：

The maxImum DC resistance value of conductor at 20℃ shall meet the requirement of stipulated in GB/T3956 standard.

| 导体标称截面 mm²<br>Nominal cross section area of conductor | 20℃时导体最大直流电阻 Ω/km<br>Conductor max DC resistance at 20℃ | | | 导体标称截面 mm²<br>Nominal cross section area of conductor | 20℃时导体最大直流电阻 Ω/km<br>Conductor max DC resistance at 20℃ | | |
|---|---|---|---|---|---|---|---|
| | 铜芯导体<br>Cu conductor | 镀锡导体<br>Tinned conductor | 铝芯导体<br>Al conductor | | 铜芯导体<br>Cu conductor | 镀锡导体<br>Tinned conductor | 铝芯导体<br>Al conductor |
| 1.5 | 12.1 | 12.2 | / | 95 | 0.193 | 0.195 | 0.320 |
| 2.5 | 7.41 | 7.56 | / | 120 | 0.153 | 0.154 | 0.253 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4 | 4.61 | 4.70 | / | 150 | 0.124 | 0.126 | 0.206 |
| 6 | 3.08 | 3.11 | / | 185 | 0.0991 | 0.100 | 0.164 |
| 10 | 1.83 | 1.84 | 3.08 | 240 | 0.0754 | 0.0762 | 0.125 |
| 16 | 1.15 | 1.16 | 1.91 | 300 | 0.0601 | 0.0607 | 0.100 |
| 25 | 0.727 | 0.734 | 1.20 | 400 | 0.0470 | 0.0475 | 0.0778 |
| 35 | 0.524 | 0.529 | 0.868 | 500 | 0.0366 | 0.0369 | 0.0605 |
| 50 | 0.387 | 0.391 | 0.641 | 630 | 0.0283 | 0.0286 | 0.0469 |
| 70 | 0.268 | 0.270 | 0.443 | 800 | 0.0224 | 0.0224 | 0.0367 |

2、工频交流耐压试验；　　Power Frequency AC voltage withstand test

| 额定电压 kV<br>Rated voltage kV | 0.6/1 | 1.8/3 | 3.6/6 | 6/6<br>6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/20<br>18/30 | 21/35 | 26/35 |
|---|---|---|---|---|---|---|---|---|---|
| 试验电压 kV<br>Test voltage kV | 3.5 | 6.5 | 12.5 | 21 | 30.5 | 42 | 63 | 73.5 | 91 |

试验条件：环境温度下，5min。
Testing condition: under environment temperature for 5min.
试验要求：绝缘应无击穿。
Testing requirement: insulation without puncture.

3、局部放电量应在1.73$U_0$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 1.73$U_0$, and its value shall be no more than that stipulated in the following table:

| 额定电压 kV<br>Rated voltage | 3.6/6 | 6/6<br>6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/20 | 18/30 | 21/35 | 26/35 |
|---|---|---|---|---|---|---|---|---|
| 放电量 pC<br>Partial discharging capacity | 10 | | | | | | | |

4、90℃绝缘电阻常数不小于3.67MΩ.km；

Insulated resistance constant is no less than 3.67MΩ.km at 90℃.

5、无卤低烟阻燃性能指标：

Performance target of no halogen, low smoke and flame retardant.

| 试验项目<br>Test item | 单位<br>Unit | 性能要求<br>Performance requirement | 试验方法<br>Test method |
|---|---|---|---|
| 烟密度试验<br>Smoke density test<br>最小透光率<br>Min.light transmittance | % | 60 | GB/T17651 |
| 腐蚀性试验<br>Corrosive test<br>最小PH值<br>Min. PH value<br>电导率最大值<br>Max.conductivity | /<br>μS/mm | 4.3<br>10 | GB/T17650.2<br>(IEC60754) |
| 卤化氢气体含量<br>Hydrogen halide gas content | mg/g | ≤5 | GB/T17650.1<br>(IEC60754) |
| 成束试验<br>Bundle burning test | - | - | GB/T18380 |
| 试验级别<br>Test class | - | A、B、C | |
| 供火时间<br>Time for fire | min | 40、40、20 | |
| 每米可燃物总体积<br>Total volume of combustible per meter | L/m | 7、3.5、1.5 | |
| 炭化高度<br>Carboniaed height | m | 2.5、2.5、2.5 | |

## 6、电缆载流量（参考值） Current-loading Capacity of Cable (Reference value)

**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 K.m/W Soil heat-resitant coefficient | | | |
|---|---|---|---|---|
| | 0.8 | 1.0 | 1.2 | 1.5 |
| 0.6/1~6/6 | 1.08 | 1.0 | 0.95 | 0.77 |
| 6/10~8.7/15 | 1.06 | 1.0 | 0.94 | 0.78 |
| 12/20~26/35 | 1.06 | 1.0 | 0.94 | 0.80 |

**环境温度不同时（土壤中）的载流量修正系数表**
**Current-loading capacity correcting coefficient under different environment temperature (In the soil )**

| 工作温度℃ Working temperature | 环境温度（℃）（土壤中） Environment temperature(In Soil) | | | | | |
|---|---|---|---|---|---|---|
| 90℃ | 10 | 15 | 20 | 25 | 30 | 35 |
| 修正系数 Correcting coeffcient | 1.11 | 1.07 | 1.04 | 1.00 | 0.96 | 0.92 |

**环境温度不同时（空气中）的载流量修正系数表**
**Current-loading capacity correcting coefficient under different environment temperature (In the air)**

| 工作温度℃ Working temperature | 环境温度（℃）（空气中） Environment temperature(℃) (In the Air) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90℃ | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| 修正系数 Correcting coeffcient | 1.23 | 1.17 | 1.12 | 1.06 | 1.00 | 0.94 | 0.87 | 0.81 |

### 6.1 低压交联电力电缆（0.6/1kV） Low voltage XLPE Power Cable（0.6/1kV）

**XLPE绝缘电缆载流量（空气中）**
**Current-loading capacity of XLPE insulation cable（in the air）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 芯数 Cores | 单芯 Singe core | | | | 两芯 Two cores | | 三芯 Three 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 | 31 | 24 | 41 | 32 | 33 | 25 | 28 | 22 |
| 4 | 41 | 32 | 54 | 42 | 43 | 34 | 37 | 29 |
| 6 | 52 | 42 | 68 | 56 | 55 | 45 | 47 | 39 |
| 10 | 71 | 55 | 93 | 72 | 76 | 58 | 65 | 50 |
| 16 | 92 | 71 | 120 | 93 | 97 | 75 | 84 | 65 |
| 25 | 120 | 94 | 155 | 120 | 130 | 100 | 110 | 87 |
| 35 | 150 | 115 | 195 | 150 | 160 | 120 | 135 | 105 |
| 50 | 180 | 140 | 235 | 180 | 195 | 150 | 170 | 130 |
| 70 | 230 | 180 | 295 | 230 | 245 | 190 | 215 | 165 |
| 95 | 285 | 220 | 370 | 285 | 305 | 235 | 265 | 205 |
| 120 | 335 | 260 | 430 | 330 | 355 | 275 | 310 | 240 |
| 150 | 385 | 300 | 495 | 380 | 405 | 315 | 350 | 270 |
| 185 | 450 | 350 | 570 | 445 | 465 | 365 | 405 | 315 |
| 240 | 535 | 414 | 680 | 530 | / | / | 480 | 375 |
| 300 | 620 | 485 | 790 | 615 | / | / | 555 | 435 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 400 | 720 | 570 | 920 | 720 | / | / | 640 | 510 |
| 500 | 835 | 670 | 1080 | 850 | / | / | / | / |
| 630 | 960 | 790 | 1260 | 1000 | / | / | / | / |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 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：

YJV32，YJV33，YJV42，YJV43，YJLV32，YJLV33，YJLV42，YJLV43单芯钢丝铠装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:

YJV32,YJV33,YJV42,YJV43,YJLV32,YJLV33,YJLV42,YJLV43 single 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).

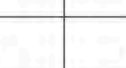
## XLPE绝缘电缆载流量（土壤中）
## Current-loading capacity of XLPE insulation cable（in the soil）

| 型号 Type | YJV YJLV YJY YJLY 6) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 排列 Array | 三根单芯电缆呈三角形排列<br>The three single-core cables are arranged in a triangle | | | | 间距 s=1×De<br>Spacing | |  1) | |
| 土壤热阻系数（K.m/W）<br>Soil thermal resistance coefficient | 自然土壤 4)<br>Natural soil | | 土壤周围呈现干燥域 5)<br>There is dry field around the cable | | | | | |
| | 1.0 | | 2.0 | | 2.5 | | 3.0 | |
| 截面 $mm^2$<br>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 | 42 | 33 | 39 | 30 | 38 | 29 | 37 | 29 |
| 4 | 55 | 43 | 50 | 39 | 49 | 38 | 48 | 37 |
| 6 | 69 | 56 | 62 | 50 | 60 | 49 | 59 | 48 |
| 10 | 92 | 71 | 82 | 63 | 80 | 61 | 78 | 60 |
| 16 | 115 | 91 | 105 | 81 | 100 | 78 | 99 | 76 |
| 25 | 150 | 115 | 135 | 105 | 130 | 100 | 125 | 98 |
| 35 | 180 | 140 | 160 | 125 | 155 | 120 | 150 | 115 |
| 50 | 215 | 165 | 190 | 145 | 180 | 140 | 175 | 135 |
| 70 | 265 | 205 | 230 | 180 | 225 | 175 | 215 | 170 |
| 95 | 320 | 245 | 275 | 215 | 265 | 205 | 260 | 200 |
| 120 | 360 | 280 | 315 | 245 | 305 | 235 | 295 | 230 |
| 150 | 410 | 315 | 355 | 275 | 340 | 265 | 330 | 255 |
| 185 | 460 | 360 | 400 | 310 | 385 | 300 | 375 | 290 |
| 240 | 535 | 420 | 460 | 360 | 445 | 345 | 430 | 335 |
| 300 | 605 | 475 | 520 | 410 | 500 | 395 | 485 | 380 |
| 400 | 685 | 545 | 590 | 470 | 570 | 450 | 550 | 435 |
| 500 | 775 | 620 | 665 | 535 | 640 | 515 | 620 | 500 |
| 630 | 865 | 705 | 745 | 605 | 715 | 585 | 695 | 565 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable（in the soil）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 排列 Array | 三根单芯电缆呈三角形排列<br>The three single-core cables are arranged in a triangle | | | 间距 s=2×De<br>spacing | |  [2] | | |
| 土壤热阻系数（K.m/W）<br>Soil thermal resistance coefficient | 自然土壤 [4]<br>Natural soil | | 土壤周围呈现干燥域 [5]<br>There is dry field around the cable | | | | | |
| | 1.0 | | 2.0 | | 2.5 | | 3.0 | |
| 截面 $mm^2$<br>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 | 46 | 36 | 41 | 32 | 40 | 31 | 39 | 30 |
| 4 | 59 | 47 | 53 | 41 | 51 | 40 | 50 | 39 |
| 6 | 74 | 60 | 65 | 53 | 63 | 52 | 62 | 50 |
| 10 | 98 | 75 | 86 | 66 | 83 | 64 | 81 | 62 |
| 16 | 125 | 97 | 110 | 85 | 105 | 82 | 100 | 80 |
| 25 | 160 | 125 | 140 | 110 | 135 | 105 | 130 | 100 |
| 35 | 190 | 150 | 165 | 130 | 160 | 125 | 155 | 120 |
| 50 | 230 | 175 | 195 | 155 | 190 | 145 | 185 | 145 |
| 70 | 280 | 215 | 240 | 185 | 235 | 180 | 225 | 175 |
| 95 | 335 | 260 | 290 | 225 | 280 | 215 | 270 | 210 |
| 120 | 385 | 295 | 330 | 255 | 315 | 245 | 310 | 240 |
| 150 | 430 | 335 | 370 | 285 | 355 | 275 | 345 | 270 |
| 185 | 490 | 380 | 420 | 325 | 405 | 315 | 395 | 305 |
| 240 | 570 | 445 | 490 | 380 | 470 | 365 | 455 | 355 |
| 300 | 645 | 505 | 555 | 430 | 530 | 415 | 515 | 400 |
| 400 | 735 | 575 | 630 | 495 | 605 | 475 | 585 | 460 |
| 500 | 840 | 665 | 720 | 565 | 690 | 545 | 670 | 530 |
| 630 | 950 | 760 | 820 | 650 | 785 | 625 | 760 | 605 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable（in the soil）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 排列 Array | 二芯 Two cores | | | | ○ [3] | | | |
| 土壤热阻系数（K.m/W）<br>Soil thermal resistance coefficient | 自然土壤 [4]<br>Natural soil | | 土壤周围呈现干燥域 [5]<br>There is dry field around the cable | | | | | |
| | 1.0 | | 2.0 | | 2.5 | | 3.0 | |
| 截面 $mm^2$<br>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 | 46 | 36 | 43 | 34 | 43 | 33 | 42 | 33 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 59 | 47 | 56 | 44 | 55 | 43 | 54 | 43 |
| 6 | 75 | 61 | 70 | 57 | 69 | 56 | 68 | 55 |
| 10 | 100 | 78 | 94 | 72 | 92 | 71 | 90 | 66 |
| 16 | 130 | 100 | 120 | 92 | 115 | 90 | 115 | 88 |
| 25 | 165 | 130 | 150 | 120 | 150 | 115 | 145 | 115 |
| 35 | 200 | 155 | 185 | 140 | 180 | 140 | 175 | 135 |
| 50 | 240 | 185 | 215 | 170 | 210 | 165 | 210 | 160 |
| 70 | 290 | 225 | 265 | 205 | 260 | 200 | 255 | 195 |
| 95 | 355 | 275 | 320 | 250 | 310 | 240 | 305 | 235 |
| 120 | 405 | 315 | 365 | 285 | 355 | 275 | 350 | 270 |
| 150 | 450 | 350 | 410 | 315 | 395 | 305 | 390 | 300 |
| 185 | 510 | 395 | 460 | 360 | 450 | 350 | 440 | 340 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable（in the soil）**

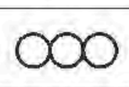
| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 排列 Array | 三~五芯 Three to five cores | | | | ○ [3] | | | |
| 土壤热阻系数（K.m/W）Soil thermal resistance coefficient | 自然土壤 Natural soil [4] | | 土壤周围呈现干燥域 There is dry field around the cable [5] | | | | | |
| | 1.0 | | 2.0 | | 2.5 | | 3.0 | |
| 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 | 39 | 31 | 37 | 29 | 36 | 28 | 35 | 28 |
| 4 | 51 | 40 | 47 | 37 | 46 | 36 | 46 | 36 |
| 6 | 64 | 52 | 59 | 48 | 58 | 47 | 57 | 46 |
| 10 | 86 | 66 | 79 | 60 | 77 | 59 | 75 | 58 |
| 16 | 110 | 85 | 100 | 78 | 98 | 76 | 96 | 74 |
| 25 | 140 | 110 | 130 | 100 | 125 | 97 | 120 | 95 |
| 35 | 170 | 130 | 155 | 120 | 150 | 115 | 145 | 115 |
| 50 | 205 | 160 | 185 | 140 | 175 | 135 | 175 | 135 |
| 70 | 250 | 195 | 225 | 175 | 215 | 170 | 210 | 165 |
| 95 | 300 | 235 | 270 | 210 | 260 | 200 | 255 | 195 |
| 120 | 345 | 265 | 305 | 240 | 295 | 230 | 290 | 225 |
| 150 | 385 | 300 | 350 | 265 | 335 | 260 | 325 | 250 |
| 185 | 435 | 340 | 385 | 300 | 375 | 290 | 365 | 285 |
| 240 | 500 | 395 | 445 | 350 | 435 | 340 | 425 | 330 |
| 300 | 565 | 445 | 505 | 390 | 490 | 385 | 475 | 375 |
| 400 | 640 | 510 | 570 | 455 | 550 | 440 | 540 | 430 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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.

## 4.2 中压交联电力电缆（6kV~35kV）　　Middle voltage XLPE cross-linked Power Cable（6kV~35kV）

**交联聚乙烯绝缘电缆载流量（空气中）**
**Current-loading capacity of XLPE insulation cable（In the air）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 1.8/3kV~6/6kV | | | | | | | | | |
| 芯数 Cores | 单芯 Singe core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shielding is connected to ground | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 135 | 105 | 135 | 105 | 165 | 130 | 165 | 130 | 120 | 93 |
| 35 | 165 | 130 | 165 | 130 | 205 | 155 | 205 | 155 | 145 | 110 |
| 50 | 200 | 155 | 200 | 155 | 245 | 190 | 245 | 190 | 175 | 135 |
| 70 | 250 | 195 | 250 | 195 | 305 | 240 | 305 | 235 | 215 | 170 |
| 95 | 305 | 235 | 305 | 235 | 375 | 290 | 370 | 290 | 265 | 205 |
| 120 | 355 | 275 | 355 | 275 | 435 | 340 | 435 | 335 | 305 | 235 |
| 150 | 405 | 315 | 405 | 315 | 495 | 385 | 485 | 380 | 345 | 270 |
| 185 | 465 | 360 | 465 | 360 | 575 | 445 | 555 | 435 | 400 | 310 |
| 240 | 550 | 430 | 550 | 430 | 675 | 525 | 645 | 510 | 470 | 365 |
| 300 | 635 | 495 | 630 | 495 | 785 | 610 | 735 | 585 | 535 | 420 |
| 400 | 745 | 585 | 735 | 580 | 910 | 715 | 840 | 680 | 620 | 495 |
| 500 | 855 | 685 | 840 | 675 | 1080 | 840 | 950 | 780 | - | - |
| 630 | 980 | 800 | 960 | 785 | 1240 | 990 | 1060 | 885 | - | - |
| 800 | 1130 | 930 | 1100 | 910 | 1440 | 1160 | 1170 | 1000 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 40℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气中）**
**Current-loading capacity of XLPE insulation cable（In the air）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 6/10kV~8.7/15kV | | | | | | | | | |
| 芯数 Cores | 单芯 Singe core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 140 | 110 | 140 | 110 | 170 | 130 | 170 | 130 | 120 | 95 |
| 35 | 175 | 135 | 170 | 135 | 205 | 160 | 205 | 160 | 145 | 115 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 205 | 160 | 205 | 160 | 245 | 190 | 245 | 190 | 175 | 135 |
| 70 | 260 | 200 | 255 | 200 | 310 | 240 | 305 | 240 | 220 | 170 |
| 95 | 315 | 245 | 315 | 245 | 380 | 295 | 370 | 290 | 265 | 205 |
| 120 | 365 | 285 | 365 | 280 | 435 | 340 | 430 | 335 | 305 | 235 |
| 150 | 415 | 320 | 410 | 320 | 495 | 385 | 485 | 385 | 350 | 270 |
| 185 | 475 | 370 | 470 | 370 | 570 | 440 | 550 | 430 | 395 | 310 |
| 240 | 565 | 440 | 560 | 435 | 680 | 530 | 645 | 510 | 470 | 370 |
| 300 | 645 | 505 | 640 | 500 | 780 | 605 | 730 | 580 | 535 | 420 |
| 400 | 750 | 590 | 740 | 585 | 910 | 715 | 840 | 675 | 610 | 485 |
| 500 | 865 | 690 | 850 | 680 | 1060 | 835 | 940 | 770 | - | - |
| 630 | 990 | 800 | 960 | 785 | 1230 | 930 | 1050 | 875 | - | - |
| 800 | 1140 | 940 | 1110 | 920 | 1440 | 1160 | 1170 | 1000 | - | - |
| 工作温度 Working temperature | | | | 90℃ | | | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气中）**
**Current-loading capacity of XLPE insulation cable（In the air）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/20kV | | | | | | | | | |
| 芯数 Cores | 单芯 Singe core | | | | | | | | 三芯 Three cores | |
| 排列 Array | [1] | | | | [2] | | | | [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A）Current-loading capacity（A） | | | | | | | | | |
| 25 | 145 | 110 | 145 | 110 | 170 | 130 | 170 | 130 | 120 | 96 |
| 35 | 175 | 135 | 170 | 135 | 205 | 160 | 205 | 160 | 150 | 115 |
| 50 | 210 | 160 | 210 | 160 | 245 | 190 | 245 | 190 | 175 | 135 |
| 70 | 260 | 200 | 260 | 200 | 310 | 240 | 305 | 240 | 220 | 170 |
| 95 | 320 | 245 | 320 | 245 | 380 | 295 | 370 | 290 | 265 | 205 |
| 120 | 370 | 285 | 365 | 285 | 440 | 340 | 430 | 335 | 305 | 235 |
| 150 | 420 | 325 | 415 | 325 | 500 | 385 | 485 | 380 | 350 | 270 |
| 185 | 480 | 375 | 475 | 370 | 570 | 445 | 555 | 435 | 395 | 310 |
| 240 | 565 | 440 | 560 | 440 | 675 | 525 | 645 | 510 | 465 | 365 |
| 300 | 650 | 510 | 645 | 505 | 780 | 610 | 735 | 580 | 530 | 415 |
| 400 | 755 | 595 | 745 | 590 | 910 | 710 | 835 | 675 | 615 | 485 |
| 500 | 865 | 690 | 850 | 685 | 1050 | 825 | 930 | 765 | - | - |
| 630 | 1000 | 810 | 980 | 795 | 1230 | 970 | 1050 | 880 | - | - |
| 800 | 1140 | 940 | 1110 | 920 | 1420 | 1140 | 1160 | 990 | - | - |
| 工作温度 Working temperature | | | | 90℃ | | | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气中） Current-loading capacity of XLPE insulation cable（In the air）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/30kV~26/35kV | | | | | | | | | |
| 芯数 Cores | 单芯 Singe core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 150 | 115 | 150 | 115 | 170 | 130 | 170 | 130 | 125 | 98 |
| 35 | 180 | 140 | 180 | 140 | 205 | 160 | 205 | 160 | 150 | 115 |
| 50 | 215 | 170 | 215 | 170 | 250 | 190 | 245 | 190 | 180 | 140 |
| 70 | 270 | 210 | 270 | 210 | 305 | 240 | 305 | 235 | 220 | 170 |
| 95 | 330 | 255 | 325 | 255 | 375 | 290 | 370 | 290 | 265 | 205 |
| 120 | 380 | 295 | 375 | 295 | 435 | 335 | 425 | 330 | 305 | 235 |
| 150 | 430 | 330 | 425 | 330 | 490 | 380 | 475 | 375 | 345 | 270 |
| 185 | 490 | 380 | 485 | 380 | 565 | 435 | 540 | 425 | 390 | 305 |
| 240 | 575 | 450 | 570 | 445 | 665 | 520 | 630 | 500 | 455 | 355 |
| 300 | 660 | 515 | 650 | 510 | 760 | 590 | 710 | 570 | 525 | 410 |
| 400 | 765 | 600 | 755 | 595 | 890 | 695 | 810 | 655 | 600 | 470 |
| 500 | 875 | 695 | 860 | 685 | 1030 | 810 | 910 | 750 | - | - |
| 630 | 1010 | 810 | 980 | 800 | 1200 | 950 | 1020 | 855 | - | - |
| 800 | 1150 | 940 | 1120 | 920 | 1380 | 1110 | 1130 | 960 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 40℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable（In the soil）**

| 型号 Type | YJV YJY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 土壤热阻系数（K.m/W） Soil thermal resistance coefficient | 自然土壤 [4] Natural soil | | | | | | | |
| | 1.0 | | | | | | | |
| 排列 Array | 三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle | | | | 间距 s=1×De spacing | |  [1] | |
| 电压等级 Voltage | 1.8/3kV~6/6kV | | 6/10kV~8.7/15kV | | 18/20kV | | 18/30kV~26/35kV | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu |
| | 载流量（A） Current-loading capacity（A） | | | | | | | |
| 25 | 190 | 190 | 190 | 190 | 185 | 180 | 185 | 180 |
| 35 | 230 | 230 | 225 | 225 | 225 | 225 | 220 | 220 |
| 50 | 275 | 275 | 270 | 270 | 270 | 270 | 260 | 260 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 70 | 335 | 335 | 335 | 335 | 330 | 330 | 320 | 320 |
| 95 | 400 | 405 | 405 | 405 | 400 | 400 | 390 | 390 |
| 120 | 465 | 465 | 460 | 460 | 460 | 460 | 445 | 445 |
| 150 | 525 | 525 | 520 | 520 | 520 | 520 | 500 | 500 |
| 185 | 600 | 595 | 585 | 585 | 585 | 585 | 570 | 565 |
| 240 | 695 | 690 | 690 | 685 | 680 | 675 | 665 | 660 |
| 300 | 785 | 780 | 775 | 770 | 775 | 770 | 750 | 740 |
| 400 | 895 | 885 | 890 | 880 | 885 | 875 | 865 | 850 |
| 500 | 1010 | 1000 | 1010 | 990 | 1000 | 980 | 980 | 960 |
| 630 | 1140 | 1110 | 1130 | 1110 | 1140 | 1110 | 1110 | 1080 |
| 800 | 1270 | 1230 | 1270 | 1230 | 1270 | 1230 | 1250 | 1210 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable (In the soil)**

| 型号 Type | YJLV YJLY 6) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 土壤热阻系数（K.m/W）Soil thermal resistance coefficient | 自然土壤 4) Natural soil | | | | | | | |
| | 1.0 | | | | | | | |
| 排列 Array | 三根单芯电缆呈三角形排列 The three single-core cables are arranged in a triangle | | | | 间距 s=1×De spacing | | 1) | |
| 电压等级 Voltage | 1.8/3kV~6/6kV | | 6/10kV~8.7/15kV | | 18/20kV | | 18/30kV~26/35kV | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end |
| 截面 $mm^2$ Nominal cross-section area | 铝 Al | 铝 Al | 铝 Al | 铝 Al | 铝 Al | 铝 Al | 铝 Al | 铝 Al |
| | 载流量（A）Current-loading capacity（A） | | | | | | | |
| 25 | 145 | 145 | 145 | 145 | 145 | 145 | 140 | 140 |
| 35 | 175 | 175 | 175 | 175 | 175 | 175 | 170 | 170 |
| 50 | 210 | 210 | 210 | 210 | 210 | 210 | 200 | 200 |
| 70 | 260 | 260 | 260 | 260 | 255 | 255 | 250 | 250 |
| 95 | 315 | 315 | 315 | 310 | 310 | 310 | 300 | 300 |
| 120 | 360 | 360 | 360 | 360 | 345 | 345 | 345 | 345 |
| 150 | 410 | 410 | 405 | 400 | 400 | 400 | 395 | 385 |
| 185 | 465 | 465 | 455 | 455 | 455 | 455 | 440 | 440 |
| 240 | 540 | 540 | 535 | 530 | 530 | 530 | 515 | 515 |
| 300 | 615 | 610 | 605 | 605 | 605 | 605 | 585 | 580 |
| 400 | 705 | 700 | 705 | 690 | 700 | 690 | 680 | 670 |
| 500 | 810 | 800 | 805 | 795 | 795 | 790 | 775 | 770 |
| 630 | 920 | 910 | 920 | 900 | 920 | 900 | 895 | 880 |
| 800 | 1050 | 1020 | 1050 | 1030 | 1040 | 1020 | 1020 | 990 |
| | | | | | | | | |
| 工作温度 Working temperature | 90℃ | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中） Current-loading capacity of XLPE insulation cable (In the soil)**

| 型号 Type | YJV YJY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 土壤热阻系数（K.m/W）Soil thermal resistance coefficient | 自然土壤 [4] Natural soil | | | | | | | |
| | 1.0 | | | | | | | |
| 排列 Array | 三根单芯电缆呈平面排列 [2] The three single-core cables are arranged in a plane | | | | 间距 s=2×De spacing | |  [2] | |
| 电压等级 Voltage | 1.8/3kV~6/6kV | | 6/10kV~8.7/15kV | | 18/20kV | | 18/30kV~26/35kV | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu | 铜 Cu |
| | 载流量（A） Current-loading capacity（A） | | | | | | | |
| 25 | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
| 35 | 195 | 195 | 195 | 190 | 190 | 190 | 190 | 190 |
| 50 | 230 | 230 | 230 | 225 | 230 | 225 | 225 | 225 |
| 70 | 280 | 280 | 280 | 275 | 280 | 275 | 275 | 275 |
| 95 | 335 | 330 | 335 | 330 | 335 | 330 | 335 | 330 |
| 120 | 385 | 375 | 385 | 375 | 385 | 375 | 380 | 375 |
| 150 | 430 | 420 | 430 | 420 | 430 | 420 | 425 | 415 |
| 185 | 485 | 475 | 485 | 470 | 490 | 470 | 485 | 465 |
| 240 | 565 | 545 | 565 | 540 | 565 | 540 | 565 | 535 |
| 300 | 640 | 610 | 640 | 605 | 640 | 605 | 635 | 595 |
| 400 | 735 | 685 | 735 | 680 | 735 | 680 | 730 | 670 |
| 500 | 840 | 760 | 840 | 755 | 835 | 755 | 830 | 740 |
| 630 | 950 | 840 | 950 | 835 | 960 | 835 | 950 | 820 |
| 800 | 1080 | 910 | 1080 | 910 | 1080 | 900 | 1080 | 890 |
| 工作温度 Working temperature | 90℃ | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable (In the soil)**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 三芯 Three cores | | | | | | ○ [3] | |
| 电压等级 Voltage | 1.8/3kV~6/6kV | | 6/10kV~8.7/15kV | | 18/20kV | | 18/30kV~26/35kV | |
| 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） | | | | | | | |
| 25 | 135 | 105 | 135 | 105 | 135 | 105 | 135 | 105 |
| 35 | 165 | 125 | 165 | 125 | 160 | 125 | 160 | 125 |
| 50 | 195 | 150 | 190 | 150 | 190 | 150 | 190 | 145 |
| 70 | 240 | 185 | 240 | 185 | 235 | 185 | 230 | 180 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | 290 | 225 | 285 | 220 | 285 | 220 | 275 | 215 |
| 120 | 325 | 255 | 320 | 250 | 320 | 250 | 315 | 245 |
| 150 | 370 | 285 | 365 | 280 | 365 | 285 | 355 | 275 |
| 185 | 415 | 325 | 410 | 320 | 410 | 320 | 400 | 310 |
| 240 | 485 | 380 | 480 | 375 | 475 | 370 | 460 | 360 |
| 300 | 540 | 425 | 540 | 425 | 535 | 420 | 520 | 410 |
| 400 | 620 | 490 | 610 | 485 | 605 | 480 | 590 | 465 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 25℃ | | | | |

注1、2、3、4、5、6同4.1条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 多芯钢带铠装电缆载流量

Current carrying capacity of multi-core steel tape armored cable

**XLPE绝缘电缆载流量（空气中）**

**Current-loading capacity of XLPE insulation cable（In the air）**

| 型号 Type | YJV22 YJLV22 YJY22 YJLY22 [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | 1.8/3kV~8.7/10kV | | 8.7/15kV~26/35kV | |
| 芯数 Cores | 二芯 Two cores | | 三~五芯 Three to five cores | | 三芯 Three cores | | 三芯 Three cores | |
| 排列 Array | ○ [3] | | ○ [3] | | ○ [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 | 75 | 58 | 64 | 50 | - | - | - | - |
| 16 | 97 | 75 | 83 | 64 | - | - | - | - |
| 25 | 125 | 100 | 110 | 86 | - | - | - | - |
| 35 | 155 | 120 | 135 | 105 | 145 | 110 | 150 | 115 |
| 50 | 190 | 145 | 165 | 125 | 170 | 130 | 180 | 140 |
| 70 | 245 | 190 | 210 | 165 | 210 | 165 | 220 | 170 |
| 95 | 300 | 235 | 260 | 200 | 265 | 200 | 265 | 205 |
| 120 | 350 | 270 | 305 | 235 | 300 | 235 | 310 | 240 |
| 150 | 400 | 310 | 345 | 270 | 340 | 265 | 350 | 270 |
| 185 | 460 | 355 | 395 | 310 | 390 | 305 | 400 | 310 |
| 240 | - | - | 465 | 365 | 455 | 355 | 465 | 360 |
| 300 | - | - | 535 | 420 | 520 | 410 | 535 | 420 |
| 400 | - | - | 620 | 495 | 600 | 475 | 615 | 485 |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | |

注1、2、3、4、5、6同4.1条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.

**XLPE绝缘电缆载流量（土壤中）**
**Current-loading capacity of XLPE insulation cable（In the soil）**

| 型号 Type | YJV22 YJLV22 YJY22 YJLY22 [6] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 二芯 Two cores | | 三~五芯 Three to five cores | | 三芯 Three cores | | 三芯 Three cores | | 三芯 Three cores | | 三芯 Three cores | |
| 电压等级 Voltage | 0.6/1kV | | | | 1.8/3~6/6kV | | 6/10~8.7/15kV | | 18/20kV | | 18/30~26/35kV | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 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 | 45 | 35 | 35 | 30 | - | - | - | - | - | - | - | - |
| 4 | 59 | 47 | 50 | 40 | - | - | - | - | - | - | - | - |
| 6 | 74 | 61 | 60 | 50 | - | - | - | - | - | - | - | - |
| 10 | 100 | 77 | 85 | 65 | - | - | - | - | - | - | - | - |
| 16 | 135 | 105 | 110 | 85 | - | - | - | - | - | - | - | - |
| 25 | 165 | 130 | 140 | 110 | 140 | 105 | 135 | 105 | 135 | 105 | 135 | 105 |
| 35 | 200 | 155 | 170 | 130 | 165 | 125 | 165 | 125 | 160 | 125 | 160 | 125 |
| 50 | 240 | 185 | 200 | 155 | 195 | 150 | 190 | 150 | 190 | 150 | 190 | 145 |
| 70 | 295 | 230 | 245 | 190 | 240 | 185 | 240 | 185 | 235 | 185 | 230 | 180 |
| 95 | 355 | 275 | 300 | 230 | 285 | 220 | 285 | 220 | 285 | 220 | 275 | 215 |
| 120 | 405 | 315 | 335 | 260 | 325 | 255 | 320 | 250 | 320 | 250 | 315 | 245 |
| 150 | 455 | 355 | 380 | 295 | 370 | 285 | 365 | 280 | 365 | 285 | 355 | 275 |
| 185 | 515 | 400 | 430 | 335 | 415 | 325 | 410 | 320 | 410 | 320 | 400 | 310 |
| 240 | - | - | 500 | 390 | 480 | 375 | 480 | 375 | 475 | 370 | 460 | 360 |
| 300 | - | - | 565 | 440 | 545 | 425 | 540 | 425 | 535 | 420 | 520 | 410 |
| 400 | - | - | 650 | 505 | 615 | 485 | 610 | 485 | 605 | 480 | 590 | 465 |
| 工作温度 Working temperature | 90℃ | | | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | | | |

注1、2、3、4、5、6同4.1条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 非铠装电缆——空气管道中电缆载流量　Un-armored cable—Current-loading capacity in the air duct

**交联聚乙烯绝缘电缆载流量（空气管道中）**
**Current-loading capacity of XLPE insulation cable（In the air duct）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 0.6/1kV | | | | | | | |
| 芯数 Cores | 单芯 One 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 | 28 | 22 | 31 | 24 | 24 | 19 | 21 | 16 |
| 4 | 36 | 29 | 41 | 32 | 32 | 25 | 27 | 21 |
| 6 | 46 | 38 | 51 | 42 | 41 | 33 | 34 | 28 |
| 10 | 62 | 48 | 69 | 53 | 55 | 43 | 47 | 36 |
| 16 | 79 | 61 | 88 | 60 | 71 | 55 | 60 | 47 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 25 | 105 | 81 | 115 | 89 | 94 | 73 | 80 | 62 |
| 35 | 125 | 100 | 140 | 110 | 115 | 90 | 98 | 76 |
| 50 | 155 | 120 | 170 | 130 | 140 | 110 | 120 | 92 |
| 95 | 235 | 185 | 260 | 200 | 220 | 170 | 185 | 145 |
| 120 | 275 | 215 | 300 | 235 | 255 | 195 | 215 | 170 |
| 150 | 315 | 245 | 345 | 265 | 295 | 225 | 250 | 190 |
| 185 | 365 | 285 | 400 | 310 | 335 | 260 | 290 | 225 |
| 240 | 435 | 340 | 475 | 365 | - | - | 340 | 265 |
| 300 | 505 | 390 | 550 | 425 | - | - | 390 | 310 |
| 400 | 590 | 460 | 640 | 500 | - | - | 455 | 360 |
| 500 | 690 | 545 | 750 | 590 | - | - | - | - |
| 630 | 800 | 640 | 875 | 695 | - | - | - | - |
| 800 | 930 | 755 | 1030 | 820 | - | - | - | - |
| 工作温度 Working temperature | | | | 90℃ | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | |

注1、2、3、4、5、6同4.1条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.

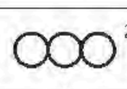
**交联聚乙烯绝缘电缆载流量（空气管道中）**
**Current-loading capacity of XLPE insulation cable（In the air duct)**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 1.8/3kV~6/6kV | | | | | | | | | |
| 芯数 Cores | 单芯 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array | [1] | | | | [2] | | | | [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A）Current-loading capacity（A） | | | | | | | | | |
| 25 | 115 | 92 | 115 | 91 | 125 | 98 | 125 | 98 | 91 | 70 |
| 35 | 140 | 110 | 140 | 110 | 150 | 115 | 150 | 115 | 110 | 85 |
| 50 | 170 | 130 | 170 | 130 | 180 | 140 | 180 | 140 | 130 | 100 |
| 70 | 210 | 165 | 210 | 160 | 225 | 175 | 220 | 175 | 160 | 125 |
| 95 | 260 | 200 | 255 | 195 | 275 | 215 | 270 | 210 | 195 | 155 |
| 120 | 295 | 230 | 290 | 225 | 315 | 245 | 305 | 240 | 225 | 175 |
| 150 | 335 | 260 | 330 | 255 | 360 | 280 | 345 | 270 | 260 | 200 |
| 185 | 385 | 295 | 375 | 295 | 415 | 320 | 390 | 310 | 295 | 230 |
| 240 | 455 | 355 | 440 | 345 | 490 | 380 | 450 | 360 | 345 | 270 |
| 300 | 525 | 410 | 505 | 400 | 565 | 440 | 505 | 410 | 395 | 310 |
| 400 | 610 | 480 | 585 | 465 | 660 | 515 | 570 | 470 | 460 | 365 |
| 500 | 710 | 560 | 665 | 540 | 765 | 600 | 630 | 530 | - | - |
| 630 | 820 | 655 | 760 | 620 | 895 | 710 | 695 | 595 | - | - |
| 800 | 950 | 770 | 855 | 715 | 1040 | 835 | 750 | 655 | - | - |
| 工作温度 Working temperature | | | | 90℃ | | | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气管道中）**
**Current-loading capacity of XLPE insulation cable（In the air duct）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 6/10kV~8.7/15kV | | | | | | | | | |
| 芯数 Cores | 单芯 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 120 | 95 | 120 | 95 | 130 | 100 | 130 | 100 | 95 | 74 |
| 35 | 145 | 115 | 145 | 115 | 155 | 120 | 155 | 120 | 115 | 89 |
| 50 | 175 | 135 | 175 | 135 | 185 | 145 | 185 | 145 | 135 | 105 |
| 70 | 215 | 170 | 215 | 165 | 235 | 180 | 230 | 180 | 170 | 130 |
| 95 | 265 | 205 | 260 | 205 | 285 | 220 | 275 | 215 | 205 | 160 |
| 120 | 305 | 235 | 300 | 235 | 325 | 255 | 315 | 245 | 235 | 180 |
| 150 | 345 | 265 | 340 | 265 | 370 | 285 | 350 | 280 | 265 | 205 |
| 185 | 395 | 305 | 385 | 300 | 420 | 330 | 395 | 315 | 300 | 235 |
| 240 | 465 | 360 | 455 | 355 | 500 | 390 | 455 | 365 | 355 | 280 |
| 300 | 530 | 415 | 515 | 450 | 570 | 445 | 510 | 415 | 400 | 315 |
| 400 | 620 | 485 | 590 | 470 | 670 | 525 | 570 | 470 | 460 | 365 |
| 500 | 715 | 565 | 670 | 545 | 775 | 605 | 630 | 530 | - | - |
| 630 | 835 | 660 | 760 | 625 | 900 | 710 | 690 | 595 | - | - |
| 800 | 960 | 775 | 860 | 720 | 1050 | 840 | 750 | 655 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 40℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气管道中）**
**Current-loading capacity of XLPE insulation cable（In the air duct）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/20kV | | | | | | | | | |
| 芯数 Cores | 单芯 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 125 | 97 | 125 | 96 | 130 | 100 | 130 | 100 | 97 | 75 |
| 35 | 150 | 115 | 150 | 115 | 160 | 125 | 160 | 125 | 115 | 90 |
| 50 | 175 | 135 | 175 | 135 | 190 | 145 | 190 | 145 | 135 | 105 |
| 70 | 220 | 170 | 220 | 170 | 235 | 185 | 235 | 180 | 170 | 130 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 95 | 265 | 205 | 265 | 205 | 285 | 220 | 280 | 220 | 205 | 160 |
| 120 | 310 | 240 | 305 | 235 | 330 | 255 | 315 | 250 | 235 | 185 |
| 150 | 350 | 270 | 345 | 270 | 375 | 290 | 355 | 280 | 270 | 210 |
| 185 | 400 | 310 | 390 | 305 | 430 | 335 | 400 | 320 | 305 | 235 |
| 240 | 470 | 365 | 455 | 360 | 505 | 390 | 460 | 370 | 355 | 280 |
| 300 | 540 | 420 | 520 | 410 | 580 | 450 | 515 | 415 | 405 | 320 |
| 400 | 625 | 490 | 595 | 475 | 675 | 525 | 575 | 475 | 465 | 370 |
| 500 | 720 | 570 | 680 | 545 | 780 | 610 | 630 | 535 | - | - |
| 630 | 840 | 665 | 770 | 630 | 900 | 715 | 695 | 595 | - | - |
| 800 | 970 | 780 | 865 | 725 | 1050 | 840 | 750 | 660 | - | - |
| 工作温度 Working temperature | | | | 90℃ | | | | | | |
| 环境温度 Environment temperature | | | | 40℃ | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（空气管道中）**
**Current-loading capacity of XLPE insulation cable (In the air duct)**

| 型号 Type | YJV YJLV YJY YJLY 6) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/30kV~26/35kV | | | | | | | | | |
| 芯数 Cores | 单芯 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array | 1) | | | | 2) | | | | 3) | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 130 | 100 | 130 | 100 | 140 | 110 | 140 | 105 | 100 | 80 |
| 35 | 160 | 120 | 155 | 120 | 165 | 130 | 165 | 130 | 125 | 96 |
| 50 | 190 | 145 | 185 | 145 | 200 | 155 | 195 | 150 | 145 | 115 |
| 70 | 230 | 180 | 230 | 180 | 245 | 190 | 240 | 185 | 180 | 140 |
| 95 | 280 | 220 | 280 | 215 | 300 | 230 | 290 | 225 | 215 | 165 |
| 120 | 325 | 250 | 320 | 250 | 340 | 265 | 325 | 260 | 245 | 190 |
| 150 | 365 | 280 | 355 | 280 | 385 | 300 | 365 | 290 | 275 | 215 |
| 185 | 415 | 320 | 405 | 320 | 440 | 340 | 410 | 325 | 315 | 245 |
| 240 | 490 | 380 | 475 | 370 | 520 | 400 | 465 | 375 | 365 | 285 |
| 300 | 555 | 430 | 535 | 420 | 590 | 460 | 515 | 420 | 415 | 325 |
| 400 | 645 | 505 | 610 | 490 | 685 | 535 | 580 | 480 | 470 | 375 |
| 500 | 745 | 585 | 690 | 560 | 795 | 625 | 635 | 535 | - | - |
| 630 | 855 | 680 | 780 | 640 | 920 | 725 | 690 | 595 | - | - |
| 800 | 990 | 795 | 875 | 730 | 1060 | 850 | 745 | 660 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 40℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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 非铠装电缆——土壤管道中载流量　　Un-armored cable—Current-loading capacity in the soil pipe

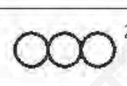
**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable（In the soil pipe）**

| 型号 Type | YJV YJLV YJY YJLY [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 | | 管道周围土壤呈现干燥域 [5] There is dry field around the cable | | | | | | 自然土壤 [4] Natural soil | | | | | |
| | 1.0 | | 2.0 | | 2.5 | | 3.0 | | 1.0 | | | | | |
| 排列 Array |  [1] | |  [1] | | | | | |  [2] | |  [3] | |  [3] | |
| 芯数 Cores | 单芯 One core | | 单芯 One core | | | | | | 单芯 One core | | 二芯 Two cores | | 3~5芯 Three to five cores | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 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 | 33 | 26 | 29 | 23 | 28 | 22 | 28 | 21 | 34 | 27 | 30 | 23 | 25 | 19 |
| 4 | 43 | 34 | 37 | 29 | 36 | 28 | 35 | 27 | 44 | 35 | 38 | 30 | 32 | 25 |
| 6 | 54 | 44 | 46 | 38 | 44 | 36 | 45 | 35 | 55 | 45 | 48 | 39 | 41 | 33 |
| 10 | 72 | 55 | 61 | 47 | 59 | 45 | 57 | 44 | 73 | 56 | 65 | 50 | 55 | 42 |
| 16 | 91 | 71 | 78 | 60 | 75 | 58 | 73 | 56 | 93 | 72 | 84 | 65 | 71 | 55 |
| 25 | 115 | 92 | 100 | 78 | 97 | 75 | 94 | 73 | 120 | 94 | 110 | 85 | 92 | 72 |
| 35 | 140 | 110 | 120 | 94 | 115 | 90 | 110 | 87 | 145 | 110 | 130 | 100 | 110 | 87 |
| 50 | 170 | 130 | 145 | 110 | 135 | 105 | 135 | 105 | 170 | 135 | 160 | 125 | 135 | 105 |
| 70 | 210 | 160 | 175 | 135 | 170 | 130 | 165 | 125 | 215 | 165 | 200 | 155 | 170 | 130 |
| 95 | 250 | 195 | 215 | 165 | 205 | 160 | 200 | 155 | 260 | 200 | 245 | 190 | 205 | 160 |
| 120 | 290 | 225 | 245 | 190 | 235 | 180 | 225 | 175 | 295 | 230 | 280 | 220 | 235 | 185 |
| 150 | 330 | 255 | 280 | 215 | 265 | 205 | 260 | 200 | 340 | 260 | 320 | 250 | 270 | 210 |
| 185 | 375 | 290 | 315 | 245 | 305 | 235 | 295 | 230 | 385 | 300 | 365 | 285 | 310 | 240 |
| 240 | 440 | 340 | 370 | 290 | 355 | 275 | 345 | 270 | 455 | 355 | - | - | 365 | 285 |
| 300 | 500 | 390 | 425 | 330 | 405 | 315 | 395 | 305 | 520 | 405 | - | - | 415 | 325 |
| 400 | 575 | 450 | 485 | 380 | 465 | 365 | 450 | 355 | 600 | 470 | - | - | 480 | 380 |
| 500 | 665 | 525 | 560 | 445 | 540 | 425 | 520 | 410 | 695 | 550 | - | - | - | - |
| 630 | 760 | 605 | 645 | 515 | 615 | 490 | 600 | 475 | 805 | 635 | - | - | - | - |
| 800 | 870 | 705 | 735 | 595 | 705 | 570 | 685 | 555 | 930 | 740 | - | - | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

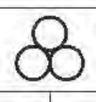
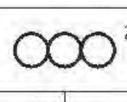
**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable（In the soil pipe）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 1.8/3kV~6/6kV | | | | | | | | | |
| 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 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  [1] | | | |  [2] | | | |  [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A）Current-loading capacity（A） | | | | | | | | | |
| 25 | 140 | 110 | 140 | 110 | 130 | 100 | 130 | 100 | 100 | 79 |
| 35 | 170 | 130 | 165 | 130 | 155 | 120 | 155 | 120 | 120 | 94 |
| 50 | 200 | 155 | 200 | 155 | 185 | 140 | 180 | 140 | 145 | 110 |
| 70 | 245 | 190 | 245 | 190 | 225 | 175 | 220 | 175 | 180 | 140 |
| 95 | 300 | 230 | 295 | 230 | 270 | 210 | 265 | 205 | 215 | 165 |
| 120 | 340 | 265 | 340 | 265 | 310 | 240 | 305 | 235 | 245 | 190 |
| 150 | 390 | 300 | 380 | 300 | 350 | 270 | 340 | 265 | 280 | 215 |
| 185 | 440 | 345 | 435 | 340 | 400 | 310 | 380 | 300 | 315 | 245 |
| 240 | 520 | 405 | 505 | 395 | 465 | 365 | 440 | 350 | 370 | 290 |
| 300 | 595 | 460 | 575 | 450 | 535 | 415 | 495 | 395 | 420 | 330 |
| 400 | 685 | 535 | 655 | 520 | 615 | 480 | 555 | 450 | 480 | 385 |
| 500 | 790 | 620 | 740 | 600 | 710 | 560 | 620 | 510 | - | - |
| 630 | 900 | 720 | 830 | 680 | 815 | 645 | 680 | 570 | - | - |
| 800 | 1030 | 835 | 920 | 775 | 940 | 750 | 735 | 635 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable（In the soil pipe）**

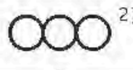
| 型号 Type | YJV YJLV YJY YJLY [6] | | | |
|---|---|---|---|---|
| 电压等级 Voltage | 6/10kV~8.7/15kV | | | |
| 土壤热阻系数（K.m/W）Soil thermal resistance coefficient | 自然土壤 [4] Natural soil | | | |
| | 1.0 | | | |
| 芯数 Cores | 单芯 One core | | | 三芯 Three cores |
| 排列 Array |  [1] | |  [2] |  [3] |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | 二端 Two end | 一端 One end | 二端 Two end |

| 截面 mm² Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
|---|---|---|---|---|---|---|---|---|---|---|
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 145 | 110 | 140 | 110 | 130 | 100 | 130 | 100 | 105 | 81 |
| 35 | 170 | 135 | 170 | 135 | 160 | 120 | 155 | 120 | 125 | 97 |
| 50 | 205 | 160 | 205 | 160 | 185 | 145 | 185 | 145 | 150 | 115 |
| 70 | 250 | 195 | 250 | 195 | 230 | 180 | 225 | 175 | 185 | 140 |
| 95 | 305 | 235 | 300 | 235 | 275 | 215 | 270 | 210 | 220 | 170 |
| 120 | 350 | 270 | 345 | 270 | 315 | 245 | 310 | 240 | 250 | 195 |
| 150 | 395 | 305 | 390 | 300 | 355 | 275 | 345 | 270 | 285 | 220 |
| 185 | 450 | 350 | 440 | 345 | 405 | 315 | 390 | 305 | 320 | 250 |
| 240 | 525 | 410 | 510 | 405 | 475 | 370 | 445 | 355 | 375 | 295 |
| 300 | 600 | 465 | 575 | 455 | 540 | 420 | 495 | 400 | 425 | 335 |
| 400 | 690 | 540 | 660 | 525 | 625 | 485 | 560 | 455 | 485 | 385 |
| 500 | 795 | 625 | 745 | 600 | 715 | 565 | 620 | 510 | - | - |
| 630 | 910 | 725 | 835 | 685 | 825 | 650 | 680 | 575 | - | - |
| 800 | 1040 | 840 | 930 | 780 | 950 | 755 | 740 | 635 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable（In the soil pipe）**

| 型号 Type | YJV YJLV YJY YJLY 6) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 6/10kV~8.7/15kV | | | | | | | | | |
| 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 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array |  1) | | | |  2) | | | |  3) | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 mm² Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 145 | 110 | 140 | 110 | 130 | 100 | 130 | 100 | 105 | 81 |
| 35 | 170 | 135 | 170 | 135 | 160 | 120 | 155 | 120 | 125 | 97 |
| 50 | 205 | 160 | 205 | 160 | 185 | 145 | 185 | 145 | 150 | 115 |
| 70 | 250 | 195 | 250 | 195 | 230 | 180 | 225 | 175 | 185 | 140 |
| 95 | 305 | 235 | 300 | 235 | 275 | 215 | 270 | 210 | 220 | 170 |
| 120 | 350 | 270 | 345 | 270 | 315 | 245 | 310 | 240 | 250 | 195 |
| 150 | 395 | 305 | 390 | 300 | 355 | 275 | 345 | 270 | 285 | 220 |
| 185 | 450 | 350 | 440 | 345 | 405 | 315 | 390 | 305 | 320 | 250 |
| 240 | 525 | 410 | 510 | 405 | 475 | 370 | 445 | 355 | 375 | 295 |
| 300 | 600 | 465 | 575 | 455 | 540 | 420 | 495 | 400 | 425 | 335 |
| 400 | 690 | 540 | 660 | 525 | 625 | 485 | 560 | 455 | 485 | 385 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 795 | 625 | 745 | 600 | 715 | 565 | 620 | 510 | - | - |
| 630 | 910 | 725 | 835 | 685 | 825 | 650 | 680 | 575 | - | - |
| 800 | 1040 | 840 | 930 | 780 | 950 | 755 | 740 | 635 | - | - |
| 工作温度 Working temperature | | | 90℃ | | | | | | | |
| 环境温度 Environment temperature | | | 25℃ | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable (In the soil pipe)**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/20kV | | | | | | | | | |
| 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 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array | [1] | | | | [2] | | | | [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A） Current-loading capacity（A） | | | | | | | | | |
| 25 | 145 | 110 | 145 | 110 | 135 | 105 | 130 | 105 | 105 | 82 |
| 35 | 175 | 135 | 175 | 135 | 160 | 125 | 160 | 125 | 125 | 99 |
| 50 | 205 | 160 | 205 | 160 | 190 | 145 | 185 | 145 | 150 | 115 |
| 70 | 255 | 195 | 255 | 195 | 230 | 180 | 230 | 180 | 185 | 145 |
| 95 | 305 | 240 | 305 | 235 | 280 | 215 | 275 | 215 | 220 | 170 |
| 120 | 350 | 275 | 350 | 270 | 320 | 250 | 315 | 245 | 255 | 195 |
| 150 | 400 | 310 | 390 | 305 | 360 | 280 | 350 | 275 | 285 | 225 |
| 185 | 455 | 350 | 445 | 345 | 410 | 320 | 390 | 310 | 325 | 250 |
| 240 | 530 | 410 | 515 | 405 | 480 | 370 | 450 | 355 | 375 | 295 |
| 300 | 605 | 470 | 585 | 460 | 545 | 425 | 500 | 400 | 425 | 335 |
| 400 | 695 | 545 | 660 | 525 | 625 | 490 | 560 | 455 | 485 | 385 |
| 500 | 795 | 630 | 745 | 600 | 720 | 565 | 620 | 510 | - | - |
| 630 | 910 | 730 | 840 | 690 | 830 | 655 | 680 | 575 | - | - |
| 800 | 1050 | 845 | 930 | 780 | 950 | 760 | 735 | 635 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

**交联聚乙烯绝缘电缆载流量（土壤管道中）**
**Current-loading capacity of XLPE insulation cable（In the soil pipe）**

| 型号 Type | YJV YJLV YJY YJLY [6] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 电压等级 Voltage | 18/30kV~26/35kV | | | | | | | | | |
| 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 One core | | | | | | | | 三芯 Three cores | |
| 排列 Array | [1] | | | | [2] | | | | [3] | |
| 金属屏蔽互联接地 Metal shieding is connected to groud | 一端 One end | | 二端 Two end | | 一端 One end | | 二端 Two end | | | |
| 截面 $mm^2$ Nominal cross-section area | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al | 铜 Cu | 铝 Al |
| | 载流量（A）Current-loading capacity（A） | | | | | | | | | |
| 25 | 150 | 115 | 150 | 115 | 140 | 105 | 140 | 105 | 110 | 87 |
| 35 | 180 | 140 | 180 | 140 | 165 | 130 | 165 | 130 | 135 | 105 |
| 50 | 215 | 165 | 210 | 165 | 195 | 150 | 195 | 150 | 155 | 120 |
| 70 | 260 | 205 | 260 | 200 | 240 | 185 | 235 | 185 | 190 | 150 |
| 95 | 315 | 245 | 315 | 245 | 290 | 225 | 280 | 220 | 230 | 180 |
| 120 | 360 | 280 | 355 | 280 | 330 | 255 | 320 | 250 | 260 | 205 |
| 150 | 405 | 315 | 400 | 310 | 370 | 285 | 355 | 280 | 295 | 230 |
| 185 | 460 | 360 | 450 | 355 | 420 | 325 | 400 | 315 | 330 | 255 |
| 240 | 540 | 420 | 520 | 410 | 490 | 380 | 455 | 365 | 380 | 300 |
| 300 | 615 | 475 | 590 | 465 | 560 | 435 | 505 | 405 | 435 | 340 |
| 400 | 705 | 555 | 670 | 535 | 640 | 500 | 565 | 460 | 490 | 390 |
| 500 | 810 | 640 | 750 | 610 | 735 | 580 | 620 | 520 | - | - |
| 630 | 930 | 735 | 840 | 690 | 845 | 665 | 680 | 590 | - | - |
| 800 | 1060 | 845 | 930 | 780 | 960 | 770 | 735 | 660 | - | - |
| 工作温度 Working temperature | 90℃ | | | | | | | | | |
| 环境温度 Environment temperature | 25℃ | | | | | | | | | |

注1、2、3、4、5、6同4.1条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.

# 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。

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 distributi-on 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.

### 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。

### Executive standard

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

### 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≤300mm²，最高温度不超过160℃；导体截面积＞300mm²，最高温度不超过140℃。

3、敷设电缆时的环境温度应不低于0℃。

### Working Condition

1.Long-term allowable working temperature of cable conductor allowed shall be no more than 70°C.

2.Short circuit(the longest duration is no more than 5 second),conductor cross-sectional area≤300mm²,the highest temperature is no more than 160°C.Conductor cross-sectional ares＞300mm²,maximum temperature does not exceed 140°C.

3.Environment temperature for installation shall be no less than 0°C.

### 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 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<br>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。<br>To be laid indoors, in the tunnel, cable furrow or pipe.<br>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<br>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。<br>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<br>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。<br>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<br>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。<br>To be laid under ground,the cable can bear large mechnical 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<br>Core Number | 标称截面 mm²<br>Nominal cross section area |
|---|---|---|---|
| 铜 Cu | 铝 Al | | |
| VV<br>VV22<br>VV32 | VLV<br>VLV22<br>VLV32 | 1<br>2<br>3<br>3+1<br>4<br>4+1<br>3+2<br>5 | 1.5~800<br>1.5~400<br>1.5~500<br>4~400<br>2.5~300<br>4~400<br>4~400<br>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 mm²<br>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<br>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 mm²<br>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<br>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 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 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 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 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 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 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 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 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 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 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 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 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 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 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）

## Current-loading capacity of cable

**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。

**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（℃） Working temperature | 环境温度（℃） Environment temperature(℃) (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**

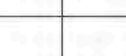
| 电压（kV）Voltage | 土壤热阻系数ρW = (K.m/W) Heat-resistant coefficient of soil | | | |
|---|---|---|---|---|
| | 0.8 | 1.0 | 1.2 | 1.5 |
| 0.6/1~6/6 | 1.08 | 1.0 | 0.95 | 0.77 |

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 Singe 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

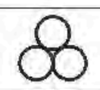
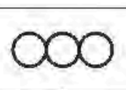
3..Separate laying of single cable (i.e. adjacent cable has no effect on the cable)

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 Singe 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 Singe 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 Singe 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℃ | | | | |

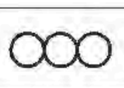
| 环境温度 Environment temperatue | 25℃ |
|---|---|

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%.

# 变频电机用交联聚乙烯绝缘电缆（变频电缆）

## XLPE Insulation Cable for Variable Frequency Motor Application (Frequency Conversion Cable)

变频电缆主要用于变频电源和变频电机之间连接用的电缆，以及额定电压1kV及以下的输配电线路中，作输送电能用。尤其适用于造纸、冶金、纺织、金属加工、矿山、铁路和食品加工等行业。

It is used for power transmission on power lines of rated voltage 0.6/1kV or lower. It has strong electromagnetic interference,lightning and equilibrium potential,and improves the quality of power supply. It is specially used in the field of paper-making,metallurgy,textile mill,metalworking,mine,railway and food processing,etc.

### 一、生产执行标准

GB/T12706-2020及企业标准。

### Executive standard

GB/T12706-2020 and Enterprise standard.

### 二、使用条件

1、额定电压$U_0$/U：0.6/1kV；

2、电缆导体长期允许最高温度为90℃，短路时最高温度为250℃（最长持续时间为5秒）；

3、安装敷设环境温度不低于0℃，固定敷设时环境温度不低于-10℃；

4、电缆允许最小弯曲半径不小于15D（D-电缆外径，mm）。

### Working Condition

1.Rated voltage $U_0$/U:0.6/1kV.

2.Max.temperature of cable conductor for Long-term working is 90℃. Max.working temperature of cable conductor is 250℃ during short circuit (the longest lasting time shall be no more than 5 seconds).

3.Environment temperature for installing is no less than 0℃,the ambient temperature of fixed laying is no less than -10℃.

4.Min. bending radium allowed by cable is no less than 15D. (D means outer diameter of cable with unit "mm")

### 三、产品性能

1、BPYJVP、BPYJVP2、BPYJVPR、BPYJVP2R、BPYJVTP2、BPYJVPP2R、BPYJVP1P2R、BPYJVPP2R型设计采用符合GB/T3956规定的铜导体，原型号前加ZA-、ZB-、ZC-、ZD-表示阻燃型；

2、交联聚乙烯绝缘，耐温耐候性好；

3、低传输阻抗，电磁兼容性好；

4、低工作电容；

5、良好的抗干扰和低辐射性能；

6、对称的三芯电缆结构设计，具有比四芯电缆更好的传输性能。

### Product Performance

1.Design for type BPYJVP 、BPYJVP2、BPYJVPR、BPYJVP2R、BPYJVTP2、BPYJVPLPR、BPYJVPLP1R、BPYJVP2PR use copper copper conductor which meets the requiements ofGB/T3956 standard.

2.XLPE insulation, good heat resistance and good weather resistance.

3.Low transmission impedance; good performance of electromagnetic compatibility.

4.Low working capacitance.

5.Good performance of interference resistance and low radiation

6.The symmetrical 3 cores cable is designed to have better transmission performance than the 4 cores cable.

### 四、主要技术参数

1、20℃时导体最大直流电阻：

### Main Technical Parameter

1.Max.DC resistance of conductor 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 Max.DC resistance of conductorat 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 Max.DC resistance of conductorat 20℃ | |
|---|---|---|---|---|---|
| | 1类导体或2类绞合导体 category 1 conductor or stranded conductor(category 2) | 5类软导体 Flexible conductor (category 5) | | 1类导体或2类绞合导体 category 1 conductor or stranded conductor(category 2) | 5类软导体 Flexible conductor (category 5) |
| 0.75 | 24.5 | 26.0 | 35 | 0.524 | 0.554 |
| 1.0 | 18.1 | 19.5 | 50 | 0.387 | 0.386 |
| 1.5 | 12.1 | 13.3 | 70 | 0.268 | 0.272 |
| 2.5 | 7.41 | 7.98 | 95 | 0.193 | 0.206 |
| 4 | 4.61 | 4.95 | 120 | 0.153 | 0.161 |
| 6 | 3.08 | 3.30 | 150 | 0.124 | 0.129 |
| 10 | 1.83 | 1.91 | 185 | 0.0991 | 0.106 |
| 16 | 1.15 | 1.21 | 240 | 0.0754 | 0.0801 |
| 25 | 0.727 | 0.780 | 300 | 0.0601 | 0.0641 |

2、交流电压试验

电压应依次施加在每一绝缘导体对其余导体和金属层之间施加试验电压3500V/5min，绝缘应无击穿。试验应在环境温度下进行。

2.A.C. Voltage Test

The voltage should be applied in turn to the test voltage 3500V/5min between the other conductors and the rest of the conductor and the metal layer without puncture of insulation. And test will be done at the environment temperature.

## 五、型号说明 Type Introduction




| 名称 Item | 代号 Code | 说明 Description |
|---|---|---|
| 系列代号 Series No. | BP | 变频电缆 Frequency converter cable |
| 绝缘代号 Insulation No. | YJ | 交联聚乙烯绝缘 XLPE insulation |
| 护套代号 Sheath Code | V | 聚氯乙烯护套 PVC sheath |
| | Y/E | 聚乙烯或聚烯烃 PE or Polyolefin |
| 屏蔽代号 Shielding Code | TP2 | 铜丝缠绕+铜带绕包屏蔽<br>Copper wire twine+copper tape wrapped shielding |
| | PP2 | 铜丝编织屏蔽+铜带绕包屏蔽<br>Copper wire braided shielding+copper tape wrapped shielding |
| | P | 铜丝编织屏蔽<br>Copper wire braided shielding |
| | P1 | 镀锡铜丝编织屏蔽<br>Tinned copper wire braided shielding |
| | P2 | 铜带屏蔽<br>Cu tape shielding |
| | P3 | 铝箔带屏蔽<br>Al (foil) tape shielding |
| | P1P3 | 铝箔绕包屏蔽+镀锡铜丝编织屏蔽<br>Al+PET wrapped shielding plus tinned copper wire braided shielding |
| 铠装代号 Armour Code | 22 | 钢带铠装聚氯乙烯护套<br>Steel tape Armour, PVC sheath |
| | 23 | 钢带铠装聚烯烃护套/钢带铠装聚乙烯护套<br>Steel tape Armour, polyolefin sheath; steel tape armored, PE sheath |
| 阻燃代号 Flame retardant Code | ZR | 阻燃型（C类） Flame-retardant type (Category C) |
| | WDZ | 低烟无卤阻燃 Low smoke halogen free flame retardant |

## 六、生产范围 Production Scope

| 型号 Type | 芯数 Core No. | 导体标称截面 mm² Nominal cross section area of conductor |
|---|---|---|
| BPYJVP 、BPYJVP2、BPYJVTP2 | 3、3+1 | 2.5~300 |
| BPYJVP(R)、BPYJVP2(R)、BPYJVP1P2(R)、BPYJVPP2(R) 、BPYJVPP2(R)、BPYJVP1P2(R) | 3+3 | 主线芯截面：2.5~300 Cross section area of main core: 2.5~300<br>副线芯截面：0.5~35 Cross section area of auxiliary core: 0.5~35 |

注：可根据用户需要提供铠装结构变频电缆。

Note: We also produce frequency converter cable with armored structure according to the requirement of customer.

## 七、型号名称 Type and Description

| 型号 Type | 名 称 Description |
|---|---|
| BPYJVP(R) | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽变频（软）电缆<br>Frequency converter (flexible) cable with copper core, XLPE insulation, copper wire braid shielding, PVC sheath |
| BPYJVP2(R) | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜带绕包屏蔽变频（软）电缆<br>Frequency converter (flexible) cable with copper core, XLPE insulation, copper tape wrapped shielding,PVC sheath |
| BPYJVTP2 | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝缠绕+铜带绕包屏蔽变频电缆<br>Frequency converter cable with copper core, XLPE insulation, copper wire twine plus copper tape wrapped shielding, PVC sheath |
| **BPYJVP13(R)<br>BPYJVPP3(R)** | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽+铝箔绕包屏蔽变频（软）电缆<br>Frequency converter flexible cable with copper core, XLPE insulation, AL. polyester wrapped plus copper wire braided shielding, PVC sheath |
| BPYJVP1P3(R) | 铜芯交联聚乙烯绝缘聚氯乙烯护套镀锡丝编织屏蔽+铝箔绕包屏蔽变频（软）电缆<br>Frequency converter flexible cable with copper core, XLPE insulation, AL. polyester wrapped plus copper tape wrapped shielding, PVC sheath |
| **BPYJVP12(R)<br>BPYJVPP2(R)** | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽+铜带绕包变频（软）电缆<br>Frequency converter flexible cable with copper core, XLPE insulation, copper wire braided plus copper tape wrapped shielding, PVC sheath |
| BPYJVP1P2(R) | 铜芯交联聚乙烯绝缘聚氯乙烯护套镀锡丝编织屏蔽+铜带绕包变频（软）电缆<br>Frequency converter flexible cable with copper core, XLPE insulation, tinned copper wire braided plus copper tape wrapped shielding, PVC sheath |

## 八、产品结构示意图 The Figure of Cable Structure




3芯
BPYJVTP2、ZR-BPYJVTP2




3+3芯
BPYJVR、BPYJVP2R、BPYJVPP2R、BPYJVPP3R、BPYJVP1P3R

## 九、外径尺寸

## Dimension of Outer Diameter

1、BPYJVP、BPYJVTP2、BPYJVP2、3+1芯

1、BPYJVP、BPYJVTP2、BPYJVP2（3+1 cores）

| 规格<br>Specification | 绝缘厚度 mm<br>Insulation thickness | 近似外径 mm<br>Approximate OD | 电缆载流量 A<br>Current-loading capacity of cable |
|---|---|---|---|
| 3×4+1×2.5 | 0.7/0.7 | 16.0 | 34 |
| 3×6+1×4 | 0.7/0.7 | 17.3 | 45 |
| 3×10+1×6 | 0.7/0.7 | 20.2 | 53 |
| 3×16+1×10 | 0.7/0.7 | 22.7 | 84 |
| 3×25+1×16 | 0.9/0.7 | 27.4 | 109 |
| 3×35+1×16 | 0.9/0.7 | 28.9 | 132 |
| 3×50+1×25 | 1.0/0.9 | 30.2 | 159 |
| 3×70+1×35 | 1.1/0.9 | 32.8 | 195 |
| 3×95+1×50 | 1.1/0.9 | 34.9 | 237 |
| 3×120+1×70 | 1.2/1.1 | 39.6 | 274 |
| 3×150+1×70 | 1.4/1.1 | 44.2 | 310 |
| 3×185+1×95 | 1.6/1.1 | 48.5 | 355 |
| 3×240+1×120 | 1.7/1.2 | 54.6 | 416 |
| 3×300+1×150 | 1.8/1.4 | 64.0 | 555 |

2、BPYJVPR、BPYJVP2R、BPYJVPP2R BPYJVP1P2R、3+3芯

2、BPYJVPR、BPYJVP2R、BPYJVPP2R、BPYJVP1P2R、3+3 cores

| 规格<br>Specification | 绝缘厚度 mm<br>Insulation thickness | 近似外径 mm<br>Approximate OD | 电缆载流量 A<br>Current-loading capacity of cable |
|---|---|---|---|
| 3×2.5+3×0.5 | 0.7/0.7 | 12.5 | 26 |
| 3×4+3×0.75 | 0.7/0.7 | 14.0 | 34 |
| 3×6+3×1.0 | 0.7/0.7 | 15.4 | 45 |
| 3×10+3×1.5 | 0.7/0.7 | 19.6 | 53 |
| 3×16+3×2.5 | 0.7/0.7 | 22.7 | 84 |
| 3×25+3×4 | 0.9/0.7 | 28.0 | 109 |
| 3×35+3×6 | 0.9/0.7 | 29.4 | 132 |
| 3×50+3×10 | 1.0/0.7 | 36.3 | 159 |
| 3×70+3×10 | 1.1/0.7 | 40.0 | 195 |
| 3×95+3×16 | 1.1/0.7 | 45.5 | 237 |
| 3×120+3×16 | 1.2/0.7 | 50.4 | 274 |
| 3×150+3×25 | 1.4/0.9 | 55.5 | 310 |
| 3×185+3×25 | 1.6/0.9 | 60.6 | 355 |
| 3×240+3×35 | 1.7/0.9 | 69.0 | 416 |
| 3×300+3×50 | 1.8/1.0 | 70.0 | 555 |

## 十、交货长度

## Delivery Length

根据双方协议长度供货。

According to the agreement between both parties.

# 氟塑料绝缘（阻燃）电力电缆

## (Flame retardant)power cable with Fluoroplastic insulation

本产品适用于额定电压0.6/1kV及以下高温范围和恶劣环境内，作电气设备电能传输线。

It is used as power transmission cable for electric equipments of rated voltage 0.6/1kV or lower in bad environment or that with high temperature.

### 一、生产执行标准

TICW2-2009，JB/T13484-2018及企业标准。

### Executive standard

TICW2-2009,JB/T13484-2009 and Enterprise standard.

### 二、使用特性

1、额定电压$U_0$/U: 0.6/1kV；

2、电缆允许最高工作温度: 氟塑料绝缘为200℃；

3、电缆敷设温度应不低于-15℃；

4、电缆的弯曲半径如下：单芯电缆，其弯曲半径不小于电缆外径的20D；三芯电缆，其弯曲半径不小于电缆外径的15D；

5、氟塑料绝缘及护套型电力电缆具有优异的耐化学腐蚀性、耐高温及阻燃性。

### Operational performance

1.Rated voltage $U_0$/U: 0.6/1kV.

2.Max.working temperature allowed by cable is 200℃ for cable with fluoroplastic insulation.

3.Cable laying temperature shall not be lower than -15℃.

4..Bending radius of cable as follows:

It is no less than 20 times that of cable outer diameter for cable with single core.It is no less than 15 times that of cable outer diameter for cable with 3 cores.

5..Power cable with fluoroplastic insulation and sheath has good features of chemical corrosion resistance, high temperature resistance and flame retardance.

### 三、型号说明

### Model explantion

□ □ □ □ □ □

- 标准号 Standard
- 芯数×截面 Core No.×Cross Section Area
- 耐温等级 Heat resistance level
- 铠装材料代号 Armor Material Code
- 护套材料代号 Sheath Material Code
- 绝缘或系列代号 Insutation&Series Code

| 项目 Item | 代号 Code | 说明 Explanation |
|---|---|---|
| 绝缘 Insutation | F | 氟塑料绝缘 Fluoroplastic insulation |
| 护套 Sheath | G | 硅橡胶护套 Silicone rubber sheath |
| | F | 氟塑料护套 Fluoroplastic sheath |
| 铠装 Armoring | 2 | 钢带铠装 Steel tape armor |
| | 9 | 镀锌钢丝编织铠装 Steel wire braid armored |
| 耐温等级 Grade of Heat resistance | 200 | 最高工作温度 200℃ The Max.operating temperature 200℃ |

## 四、电缆的型号名称

## Type and Description

1、电缆的型号名称

Type and Description

| 型号 Type | 名称 Description |
|---|---|
| FF | 氟塑料绝缘护套耐高温电力电缆<br>Power cable with Fluoroplastic insulation and sheath. |
| FF2F | 氟塑料绝缘钢带铠装氟塑料护套电力电缆<br>Power cable with Fluoroplastic insulation ,steel tape armor,Fluoroplastic sheath |
| FF9F | 氟塑料绝缘钢丝编织铠装氟塑料护套电力电缆<br>Power cable with Fluoroplastic insulation ,steel wire braided armor,F46 sheath |
| (ZR) -FG | 氟塑料绝缘（阻燃）硅橡胶护套耐高温电力电缆<br>(Flame retardant)Power cable with Fluoroplastic insulation and silicon rubber sheath. |

注：

1、氟塑料和硅橡胶绝缘电缆不推荐采用铠装结构，如采用铠装结构，优先采用金属丝编织铠装，金属丝采用铜丝、镀锌钢丝等。

2、除特殊结构外，用于交流回路的单芯电缆铠装应采用非磁性材料。

Note:

1. It is not recommended to adopt armored structure for fluoroplastic and silicone rubber insulated cables. If armored structure is adopted, metal wire braided armor is preferred, and copper wire and galvanized steel wire are used.
2. Except for special structures, single core armor cables used for AC circuits shall be made of non-magnetic materials.

## 五、电缆规格

## Specication of Cable

1、电缆规格表示为芯数×导体标称截面mm²，其芯数及导体标称截面：

"core number * nominal cross section" stands for cable specification. Please see the following table for core number and nominal cross section.

| 型号 Type | 芯数 Core number | 标称截面 mm² Nominal cross section area |
|---|---|---|
| FF、FG | 1 | 1.5～185 |
| FF、FF9F、FF2F | 2、3、4、5、3+2、3+1、4+1 | 1.5～70 |
| FG、FG2G | | 1.5～240 |

## 六、技术参数

## Technical Parameter

1、20℃导体直流电阻应符合GB/T3956标准规定；

2、电缆应经受3500V交流耐压试验5min绝缘不击穿。

1.DC resistance of conductor at 20℃ shall meet the requirement of GB/T3956 standard.

2.Cable shall bear AC voltage test of 3500V for 5min without puncture of insulation.

## 七、交货长度

## Delivery Length

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%。

1.Delivery length of cable depends on both agreements.

2.The measurement error of lenth is no more than ±0.5%.

# 硅橡胶绝缘（阻燃）电力电缆

## (Flame retardant)Power cable with Silicon insulation

本产品适用于额定电压0.6/1kV及以下的高温范围和恶劣环境内，作电气设备电能传输线。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性，并具有很好的耐寒性、耐候性。

It is used as power transmission cable of electric equipments of rated voltage 0.6/1kV or lower in bad environment or that with high temperature. It has good features of high temperature resistance, flame resistance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance, weather resistance etc.

### 一、生产执行标准

TICW4-2009、JB/T 13106-2017及企业标准。

### Executive standard

TICW4-2009、JB/T 13106-2017 and Enterprise standard.

### 二、使用特性

1、额定电压$U_0/U$：0.6/1kV；

2、电缆允许工作温度范围-60℃～+180℃；

3、短路时（最长持续间不超过5S）电缆导体的最高温度不超过350℃；

4、电缆敷设温度应不低于-20℃；

5、有铠装或屏蔽结构的电缆弯曲半径不小于电缆外径的12倍，无铠装或屏蔽结构的电缆弯曲半径不小于电缆外径的6倍。

### Operational performance

1.Rated voltage $U_0/U$:0.6/1kV.
2.Working temperature allowed by cable is-60℃～+180℃.
3.Max temperature of cable conductor is no more than 350℃ during short circuit(The longest lasting time is no more than 5s.)
4.Temperature for installing is no less than -20℃.
5.Bending radius of cable with armouring or shielding structure is no less than12 times of cable outer diameter, for cable without armouring or shielding structure, bending radius is no less than 6 times of cable outer diameter.

### 三、电缆型号名称

### Type and Description

| 型号 Type | 名称 Description |
|---|---|
| GG（YGC） | 硅橡胶绝缘硅橡胶护套电力电缆 Power cable with silicon rubber insulation and sheath |
| GG2G | 硅橡胶绝缘硅橡胶护套钢带铠装电力电缆 Power cable with silicon rubber insulation and sheath, steel tape armor |
| GG3G | 硅橡胶绝缘硅橡胶护套细钢丝铠装电力电缆 Power cable with silicon rubber insulation and sheath, fine wire armor |

注：1、阻燃型应在表中型号前加“ZA、ZB、ZC、ZD”。
2、单芯电缆应选用非磁性材料。

Note:1.The flame retardant type should be added"ZA,ZB,ZC,ZD" before the type in the table.
2.Single core cables shall be made of non-magnetic materials.

### 四、电缆规格

电缆规格用导体芯数×导体标称截面$mm^2$表示。

### Specication

“core number*nominal cross section area” stands for cable specication.

| 型号Type | 芯数 Core number | 标称截面$mm^2$ Nominal cross section area | 导体种类 Type of conductor |
|---|---|---|---|
| GG（YGC） | 2、3、4、5、3+2、3+1、4+1 | 单芯：1.5～300 多芯：1.5～240<br>1.5～500 for single core 1.5～240 for multi-core | 5类导体<br>Category 5 conductor |
| GG2G，GG3G | | | |

### 五、技术参数

1、成品电缆导体20℃时直流电阻：应满足GB/T3956标准要求；

2、成品电缆应经受工频交流试验电压3500V/5min电压试验，绝缘无击穿。

### Technical parameter

1.DC resistance of finished cable conductor at 20℃ shall meet the requirement of GB/T3956 standard.
2.Finished cable shall bear A.C voltage test of 3500V under power frequency for 5 minutes without puncture of insulation.

### 六、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

1.Delivery length of cable depends on both agree-ments.
2.The measurement error of lenth is no more than ±0.5%.

# 硅橡胶绝缘（阻燃）扁电力电缆

## (Flame retardant)Flat power cable with Silicon insulation

该电缆广泛应用于起重、运输、机械、电气、钢铁、医药、冶金、港口、矿山、物流、仓储等行业的0.6/1kV及以下各种移动动力装置的电源连接及控制、信号、照明等。

It is used as power connection & controlling & signal & lighting of various moving power equipment, in the field of lifting, transportation, machine, electronic, steel, medicine, metallurgy, port, mine and storage etc.

## 一、生产执行标准

JB/T 13107-2017及企业标准。

## Executive standard

JB/T 13107-2017 and Enterprise standard.

## 二、使用特性

1、额定电压：$U_0$/U为0.6/1kV；

2、电缆允许工作温度范围：

硅橡胶绝缘-60℃～+180℃；

3、短路时（最长持续间不超过5S）电缆导体的最高温度不超过350℃；

4、电缆敷设温度应不低于-20℃；

5、电缆最小弯曲半径为电缆短轴长度的10倍。

## Operational performance

1.Rated voltage $U_0$/U:0.6/1kV

2.Working temperature allowed by cable

-60℃～+180℃ for cable with silicon rubber insulation.

3.Max.temperature of cable conductor is no more than 350℃ during short circuit(the longest lasting time is no more than 5s).

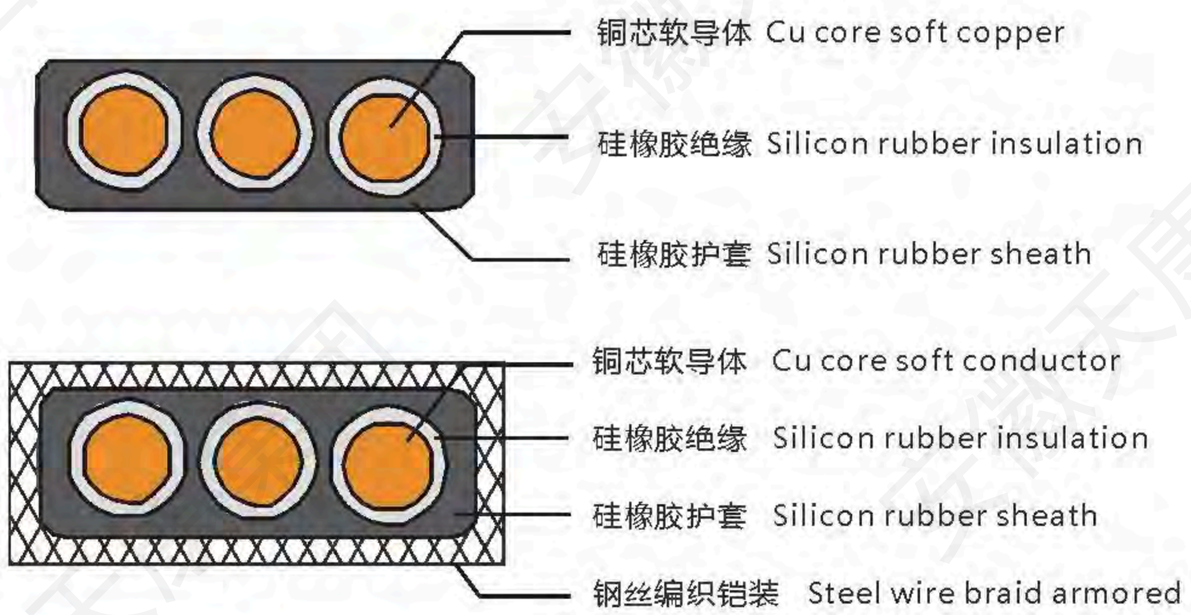
4.Temperature for installing is no lower than -20℃.

5.Min. bending radius of cable is 10 times that of small border length of cable.

## 三、电缆型号名称

## Type and Description

| 型号 Type | 名称 Description |
|---|---|
| (ZR)-YGGB | 硅橡胶绝缘硅橡胶护套（阻燃）扁电力电缆<br>(Flame retardant)Flat power cable with silicon rubber insulation and sheath |
| GGB90 | 硅橡胶绝缘硅橡胶护套（阻燃）钢丝编织铠装扁电力电缆<br>(Flame retardant)Flat power cable with silicon rubber insulation and sheath,steel wire braid armored |




## 四、主要性能参数

## Main Performance Parameter

1、在20℃时导体直流电阻

DC resistance of conductor at 20℃

| 截面 mm² Cross section area | 0.75 | 1 | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $R_{20}$ (Ω/km) | 26.0 | 19.5 | 13.3 | 7.98 | 4.95 | 3.30 | 1.91 | 1.21 | 0.780 | 0.554 | 0.386 | 0.272 | 0.206 | 0.161 | 0.129 | 0.106 | 0.0801 |

2、规格及参考数据如下表规定：

Specification and data for reference stipulated in the following table:

| 标称截面 mm² Nominal cross section area | 绝缘厚度 mm Insulation thickness | 护套厚度 mm Sheath thickness | 间距 mm Space | 电缆（参考）外径 mm Cable OD | （参考）重量 (kg) Weight |
|---|---|---|---|---|---|
| 4×1.0 | 0.8 | 1.6 | 1.0 | 17.8×6.1 | 225 |
| 6×1.0 | 0.8 | 1.6 | 1.0 | 25.6×6.1 | 345 |
| 8×1.0 | 0.8 | 1.6 | 1.0 | 33.4×6.1 | 360 |
| 4×1.5 | 1.0 | 1.6 | 1.0 | 20.5×6.8 | 291 |
| 6×1.5 | 1.0 | 1.6 | 1.0 | 29.6×6.8 | 360 |
| 8×1.5 | 1.0 | 1.6 | 1.0 | 38.8×6.8 | 469 |
| 4×2.5 | 1.0 | 1.6 | 1.5 | 24.5×8.1 | 333 |
| 6×2.5 | 1.0 | 1.6 | 1.5 | 37×8.1 | 536 |
| 8×2.5 | 1.0 | 1.6 | 1.5 | 48.1×8.1 | 608 |
| 4×4 | 1.0 | 1.7 | 1.7 | 30.5×8.4 | 457 |
| 6×4 | 1.0 | 1.7 | 1.7 | 44×8.4 | 790 |
| 4×6 | 1.0 | 1.9 | 2.0 | 33.8×9. 5 | 615 |
| 6×6 | 1.0 | 1.9 | 2.0 | 48.8×9.5 | 1098 |
| 3×10 | 1.0 | 2.4 | 2.4 | 31.7×11.5 | 702 |
| 6×10 | 1.0 | 2.4 | 2.4 | 59.8×11.5 | 1428 |
| 3×25 | 1.2 | 2.7 | 2.8 | 41.8×15 | 1645 |
| 6×25 | 1.2 | 2.7 | 2.8 | 79.5×15 | 3325 |
| 4×35 | 1.2 | 3.0 | 3.0 | 48.5×16.7 | 2181 |
| 3×50 | 1.4 | 3.1 | 3.4 | 55×19.2 | 2681 |
| 4×50 | 1.4 | 3.1 | 3.4 | 70.4×19.2 | 3158 |
| 3×70 | 1.4 | 3.3 | 3.8 | 59.1×22.9 | 2878 |
| 3×120 | 1.6 | 3.7 | 4.2 | 74.8×30.4 | 5157 |
| 3×150 | 1.8 | 4.1 | 4.4 | 80.2×32.6 | 6171 |

3、成品电缆线芯的电压试验

成品电缆的电压试验应经受交流50Hz，试验电压3500V、5min，绝缘无击穿。

Voltage test of Finished Cable Conductor

Finished cable shall bear voltage test of 3500V,AC 50Hz for 5 minutes without puncture of insulation.

## 五、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

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 控制电缆 Control cable





交联聚乙烯绝缘控制电缆

Control Cable with XLPE Insulation

聚氯乙烯绝缘控制电缆

Control cable with PVC insulation

硅橡胶绝缘（阻燃）控制电缆

(Flame retardant)Control cable with Silicon rubber

氟塑料绝缘控制电缆

Control Cable with Fluoroplastic insulation

# 交联聚乙烯绝缘控制电缆

## Control Cable with XLPE Insulation

本产品适用于交流额定电压450/750V及以下控制，监控回路及保护线路等场合使用。

This product is suitable for the use of AC rated voltage 450/750V and below, WITH in monitoring circuit and protection line or other occasions.

## 一、生产执行标准

GB/T9330-2020。

## Executive standard

GB/T9330-2020.

## 二、使用特点

1、电缆导体的长期允许工作温度为90℃；

2、电缆的敷设温度应不低于0℃，推荐的允许弯曲半径：无铠装层的电缆，应不小于电缆外径的8倍；有铠装或铜带屏蔽结构的电缆，应不小于电缆外径的12倍。

## Working Condition

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

2.Environment temperature for installation should be no less than 0℃, allowed bending radius is stipulated as follows:It should be no less than 8 times that of cable OD for unarmored cable.It should be no less than 12 times that of cable OD for the cable with armored or copper shielded structure.

## 三、产品型号中各字母代表意义

1、系列代号 …… K

2、材料代号

铜导体 …… 省略

交联聚乙烯或交联聚烯烃绝缘 …… YJ

聚氯乙烯护套 …… V

聚乙烯或聚烯烃护套 …… Y

3、结构特征代号

编织屏蔽 …… P

铜带屏蔽 …… P2

软结构 …… R

铝/塑复合薄膜屏蔽 …… P3

铜/塑复合带（箔）屏蔽 …… P4

双钢带铠装 …… 2

钢丝铠装 …… 3

聚氯乙烯外护套 …… 2

聚乙烯或聚烯烃外护套 …… 3

## The meaning of each letter in the product model

1.Series code …… K

2.Material Code

Copper conductor ……Omitted

XLPE or crosslinked polyolefine insulation …… YJ

PVC sheath …… V

PE or Polyolefine sheath …… Y

3.Structural character code

Braided shield …… P

Copper tape shield …… P2

Soft structure …… R

Aluminum/plastic composite film shielding …… P3

Copper/plastic tape(foil) shielding …… P4

Dual steel tape armor …… 2

Steel wire armor …… 3

PVC outer sheath …… 2

PE or Polyolefine sheath …… 3

## 四、型号名称

## Type and Description

| 型号 Type | 产品名称 Description |
|---|---|
| KYJV | 铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆 Control cable with Cu core, XLPE insulation, PVC sheath. |
| KYJVP | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制电缆<br>Control cable with Cu core, XLPE insulation, PVC sheath, copper wire braided shielding. |
| KYJVP2 | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆<br>Control cable with Cu core, XLPE insulation, PVC sheath, copper tape shielding. |
| KYJVP3 | 铜芯交联聚乙烯绝缘聚氯乙烯护套铝箔/铝塑复合带屏蔽控制电缆<br>Control cable with Cu core, XLPE insulation, PVC sheath, Aluminium/plastic composite film shielding. |
| KYJVP4 | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜/复合带屏蔽控制电缆<br>Copper core XLPE insulated PVC sheathed copper/plastic composite tape shielded control cable. |
| KYJV22 | 铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆<br>Control cable with Cu core, XLPE insulation, PVC sheath, steel tape armor. |
| KYJVP2-22 | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆<br>Control cable with Cu core, XLPE insulation, PVC sheath, copper tape shielding, steel tape armor. |
| KYJV32 | 铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆<br>Control cable with Cu conductor, XLPE insulation, PVC sheath and steel wire armor. |

| | |
|---|---|
| KYJY | 铜芯交联聚乙烯绝缘聚乙烯护套控制电缆 Control cable with Cu core,XLPE insulation,PE sheath |
| KYJYP | 铜芯交联聚乙烯绝缘聚乙烯护套铜丝编织屏蔽控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath,copper wire braided shielding |
| KYJYP2 | 铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath,copper tape shielding |
| KYJYP3 | 铜芯交联聚乙烯绝缘聚乙烯护套铝塑复合带屏蔽控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath,Aluminium/plastic composite tape shielding |
| KYJYP4 | 铜芯交联聚乙烯绝缘聚乙烯护套铜塑复合带屏蔽控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath,Copper/plastic composite tape shielding |
| KYJYP23 | 铜芯交联聚乙烯绝缘聚乙烯护套钢带铠装控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath, Steel tape armor |
| KYJYP2-23 | 铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽钢带铠装控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath, Copper tape shielding,Steel tape armor |
| KYJY33 | 铜芯交联聚乙烯绝缘聚乙烯护套铜带屏蔽钢丝铠装控制电缆<br>Control cable with Cu core,XLPE insulation,PE sheath, Copper tape shielding,Steel wire armor |

备注：无卤低烟阻燃电缆和无卤低烟阻燃耐火电缆，护套代号Y或3表示无卤聚烯烃护套。
①阻燃电缆、无卤低烟阻燃电缆、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-”,无卤低烟阻燃型的，在原型号前加“WDZ-”、“WDZA-”、“WDZB-”、“WDZC”“WDZD-”,无卤低烟低毒阻燃型的，在原型号前加“WDUZ-”、“WDUZA-”、“WDUZB-”、“WDUZC”“WDUZD-”。
③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN”“ZDN-”,无卤低烟阻燃耐火电缆，在原型号前加“WDZN-”、“WDZAN-”、“WDZBN-”、“WDZCN”“WDZDN-”,无卤低烟低毒阻燃型耐火电缆，在原型号前加“WDUZN-”、“WDUZAN-”、“WDUZBN-”、“WDUZCN”“WDUZDN-”。
④低烟低卤阻燃电缆，在原型号前加“DDZ-”、“DDZA-”、“DDZB-”、“DDZC”“DDZD-”。
⑤低烟无卤阻燃B1级电缆，在原型号前加“WDZB1-”或“WDZB1N-”。

Remark:Halogen-free low-smoke flame-retardant cable and halogen-free low-smoke flame-retardant fire-retardant cable, with sheath code Y or 3 indicating halogen-free polyolefin sheath.
①The names and models of flame retardant cables, halogen-free low smoke 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;For halogen-free low-smoke flame retardant type, add "WDZ-","WDZA-","WDZB-","WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-","WDUZA-","WDUZB-","WDUZC" and "WDUZD-" before the original model.
③For fire-resistant cable type , add "–","ZAN-","ZBN-","ZCN","ZDN-" before the original model;
Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-","WDZAN-","WDZBN-","WDZCN" and "WDZDN-" before the original model;
Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-","WDUZAN-","WDUZBN-","WDUZCN" and "WDUZDN-" are added 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.
⑤For Halogen-free low smoke class B1 flame retardant cable type, add “WDZB1-” or “WDZB1N-” before the original model.

## 五、生产范围 Production Scope

| 型号 Type | 导体标称截面积 mm² Nominal sectional area of conductor | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 0.5 | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | 芯数 Core | | | | | | | |
| KYJV、KYJVP、KYJY、KYJYP | / | 2~61 | | | | 2~19 | | 2~10 |
| KYJVP2、KYJVP3、KYJVP4、KYJYP2、KYJYP3、KYJYP4 | / | 4~61 | | | | 4~19 | | 4~10 |
| KYJV22、KYJY23 | / | 7~61 | | 4~61 | | 4~19 | | 4~10 |
| KYJVP2-22、KYJYP2-23 | / | 7~61 | | 4~61 | | 4~19 | | 4~10 |
| KYJV32、KYJY33 | / | 19~61 | | 7~61 | | 4~19 | | 4~10 |

阻燃电缆、无卤低烟阻燃电缆、耐火电缆及其组合型电缆的规格范围同上述对应型号的规格范围。
推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。
The specifications of flame retardant cable,LSHF flame retardant cable,fire resistant and its combination cable shall be the same as the specifications of the corresponding modles in the table above.
Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.

## 六、技术参数

## Technical Parameter

1、成品电缆导体20℃时直流电阻：

1、DC resistance of finished cable conductor at 20℃.

| 项目 Item | 单位 Unit | 技术指标 Technical indices | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 20℃时导体直流电阻 DC resistance of conductor at 20℃ | Ω/km | 截面mm² Cross section area | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | | 1类或2类，Category 1 or 2 | 24.5 | 18.1 | 12.1 | 7.41 | 4.61 | 3.08 | 1.83 |
| | | 5类，Category 5 | 26.0 | 19.5 | 13.3 | 7.98 | / | / | / |

2、成品电缆应经受3.0kV/5min工频交流电压试验，绝缘不击穿。

2、Finished cable should bear A.C. voltage of 3.0KV under power frequency for 5min without puncture of insulation.

3、成品电缆90℃时绝缘电阻：

3、Insulation resistance of finished cable at 90℃ .

| 项目 Item | 单位 Unit | 技术指标 Technical indices | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 90℃时绝缘电阻 Insulation resistance at 90℃ | Ω.km | 截面mm² Cross section area | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | | 1类，Category 1 | 1.20 | 1.10 | 1.10 | 1.0 | 0.85 | 0.70 | / |
| | | 2类，Category 2 | 1.40 | 1.30 | 1.00 | 0.90 | 0.77 | 0.65 | 0.65 |

4、交联聚乙烯绝缘控制电缆的耐热性、耐寒性、耐化学性、绝缘电阻和使用寿命优于聚氯乙烯绝缘控制电缆。

4、XLPE insulated control cable is much better than PVC insulation control cable , in terms of heat resistance, cold resistance, chemical resistance, insulation resistance and service life.

5、无卤低烟阻燃性能指标：

5、Performance target of no halogen, low smoke and flame retardant.

| 试验项目 Test item | 单位 Unit | 性能要求 Performance requirement | 试验方法 Test method |
|---|---|---|---|
| 烟密度试验 Smoke density test 最小透光率 Min.light transmittance | % | 60 | GB/T17651 |
| 腐蚀性试验 Corrosive test 最小PH值 Min. PH value 电导率最大值 Max.conductivity | μS/mm | 4.3 10 | GB/T17650.2 (IEC60754) |
| 卤化氢气体含量 Hydrogen halide gas content | mg/g | ≤5 | GB/T17650.1 (IEC60754) |
| 成束试验 Bundle burning test | - | - | GB/T18380 |
| 试验级别 Test class | - | A、B、C | |
| 供火时间 Time for fire | min | 40、40、20 | |
| 每米可燃物总体积 Total volume of combustible per meter | L/m | 7、3.5、1.5 | |
| 炭化高度 Carboniaed height | m | 2.5、2.5、2.5 | |

## 七、典型电缆结构及外形尺寸 External Dimension of Common Type

**KYJV型铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆**
**Control Cable with Cu conductor,XLPE insulation and PVC sheath (KYJV)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 1 | 7.0 | 8×0.75 | 1 | 10.0 | 19×2.5 | 1 | 19.6 |
| 2×1.0 | 1 | 7.2 | 8×1.0 | 1 | 10.5 | 19×4 | 1 | 22.0 |
| 2×1.5 | 1 | 7.8 | 8×1.5 | 1 | 11.0 | 19×6 | 1 | 24.8 |
| 2×2.5 | 1 | 9.0 | 8×2.5 | 1 | 13.7 | 24×0.75 | 1 | 16.4 |
| 2×4 | 1 | 9.8 | 8×4 | 1 | 15.3 | 24×1.0 | 1 | 17.0 |
| 2×6 | 1 | 10.8 | 8×6 | 1 | 17.0 | 24×1.5 | 1 | 18.8 |
| 2×10 | / | / | 8×10 | / | / | 24×2.5 | 1 | 22.8 |
| 3×0.75 | 1 | 7.3 | 10×0.75 | 1 | 11.4 | 27×0.75 | 1 | 16.7 |
| 3×1.0 | 1 | 7.6 | 10×1.0 | 1 | 11.8 | 27×1.0 | 1 | 17.3 |
| 3×1.5 | 1 | 8.2 | 10×1.5 | 1 | 13.5 | 27×1.5 | 1 | 19.6 |
| 3×2.5 | 1 | 9.4 | 10×2.5 | 1 | 16.0 | 27×2.5 | 1 | 23.5 |
| 3×4 | 1 | 10.4 | 10×4 | 1 | 17.6 | 30×0.75 | 1 | 17.3 |
| 3×6 | 1 | 11.5 | 10×6 | 1 | 20.5 | 30×1.0 | 1 | 18.0 |
| 3×10 | / | / | 10×10 | / | / | 30×1.5 | 1 | 20.5 |
| 4×0.75 | 1 | 7.9 | 12×0.75 | 1 | 11.8 | 30×2.5 | 1 | 24.5 |
| 4×1.0 | 1 | 8.2 | 12×1.0 | 1 | 12.2 | 37×0.75 | 1 | 18.6 |
| 4×1.5 | 1 | 8.9 | 12×1.5 | 1 | 14.0 | 37×1.0 | 1 | 20.0 |
| 4×2.5 | 1 | 10.3 | 12×2.5 | 1 | 16.5 | 37×1.5 | 1 | 22.0 |
| 4×4 | 1 | 11.3 | 12×4 | 1 | 18.2 | 37×2.5 | 1 | 26.0 |
| 4×6 | 1 | 13.1 | 12×6 | 1 | 21.0 | 44×0.75 | 1 | 21.5 |
| 4×10 | / | / | 14×0.75 | 1 | 12.3 | 44×1.0 | 1 | 22.0 |
| 5×0.75 | 1 | 8.5 | 14×1.0 | 1 | 13.3 | 44×1.5 | 1 | 24.5 |
| 5×1.0 | 1 | 8.8 | 14×1.5 | 1 | 14.5 | 44×2.5 | 1 | 30.0 |
| 5×1.5 | 1 | 9.5 | 14×2.5 | 1 | 17.3 | 48×0.75 | 1 | 22.0 |
| 5×2.5 | 1 | 11.2 | 14×4 | 1 | 20.0 | 48×1.0 | 1 | 23.0 |
| 5×4 | 1 | 12.5 | 14×6 | 1 | 22.0 | 48×1.5 | 1 | 24.8 |
| 5×6 | 1 | 14.3 | 16×0.75 | 1 | 13.5 | 48×2.5 | 1 | 30.3 |
| 5×10 | / | / | 16×1.0 | 1 | 14.0 | 52×0.75 | 1 | 22.5 |
| 7×0.75 | 1 | 9.2 | 16×1.5 | 1 | 15.4 | 52×1.0 | 1 | 23.5 |
| 7×1.0 | 1 | 9.5 | 16×2.5 | 1 | 18.2 | 52×1.5 | 1 | 25.5 |
| 7×1.5 | 1 | 10.5 | 16×4 | 1 | 21.0 | 52×2.5 | 1 | 31.1 |
| 7×2.5 | 1 | 12.2 | 16×6 | 1 | 23.5 | 61×0.75 | 1 | 24.0 |
| 7×4 | 1 | 14.0 | 19×0.75 | 1 | 14.2 | 61×1.0 | 1 | 24.3 |
| 7×6 | 1 | 15.5 | 19×1.0 | 1 | 14.7 | 61×1.5 | 1 | 27.5 |
| 7×10 | / | / | 19×1.5 | 1 | 16.2 | 61×2.5 | 1 | 33.0 |

## KYJV型铜芯交联聚乙烯绝缘聚氯乙烯护套控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath (KYJV)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 2 | 7.2 | 8×0.75 | 2 | 10.5 | 19×2.5 | 2 | 20.1 |
| 2×1.0 | 2 | 7.3 | 8×1.0 | 2 | 10.5 | 19×4 | 2 | 22.6 |
| 2×1.5 | 2 | 8 | 8×1.5 | 2 | 11.9 | 19×6 | 2 | 25.1 |
| 2×2.5 | 2 | 9.2 | 8×2.5 | 2 | 14.6 | 24×0.75 | 2 | 17.0 |
| 2×4 | 2 | 10.2 | 8×4 | 2 | 16.3 | 24×1.0 | 2 | 17.5 |
| 2×6 | 2 | 11.2 | 8×6 | 2 | 18.0 | 24×1.5 | 2 | 19.4 |
| 2×10 | 2 | 13.6 | 8×10 | 2 | 21.5 | 24×2.5 | 2 | 23.4 |
| 3×0.75 | 2 | 7.6 | 10×0.75 | 2 | 11.8 | 27×0.75 | 2 | 17.0 |
| 3×1.0 | 2 | 7.8 | 10×1.0 | 2 | 12.2 | 27×1.0 | 2 | 18.0 |
| 3×1.5 | 2 | 8.4 | 10×1.5 | 2 | 14.0 | 27×1.5 | 2 | 20.2 |
| 3×2.5 | 2 | 9.7 | 10×2.5 | 2 | 16.4 | 27×2.5 | 2 | 23.9 |
| 3×4 | 2 | 10.8 | 10×4 | 2 | 18.4 | 30×0.75 | 2 | 17.5 |
| 3×6 | 2 | 11.9 | 10×6 | 2 | 20.8 | 30×1.0 | 2 | 18.5 |
| 3×10 | 2 | 14.4 | 10×10 | 2 | 24.4 | 30×1.5 | 2 | 20.9 |
| 4×0.75 | 2 | 8.0 | 12×0.75 | 2 | 12.2 | 30×2.5 | 2 | 24.8 |
| 4×1.0 | 2 | 8.4 | 12×1.0 | 2 | 12.5 | 37×0.75 | 2 | 19.0 |
| 4×1.5 | 2 | 9.1 | 12×1.5 | 2 | 14.4 | 37×1.0 | 2 | 20.5 |
| 4×2.5 | 2 | 10.6 | 12×2.5 | 2 | 16.9 | 37×1.5 | 2 | 22.5 |
| 4×4 | 2 | 11.8 | 12×4 | 2 | 19.0 | 37×2.5 | 2 | 26.7 |
| 4×6 | 2 | 13.6 | 12×6 | 2 | 21.5 | 44×0.75 | 2 | 21.5 |
| 4×10 | 2 | 15.8 | 14×0.75 | 2 | 13.5 | 44×1.0 | 2 | 23.0 |
| 5×0.75 | 2 | 8.8 | 14×1.0 | 2 | 13.8 | 44×1.5 | 2 | 25.2 |
| 5×1.0 | 2 | 9.0 | 14×1.5 | 2 | 15.1 | 44×2.5 | 2 | 30.6 |
| 5×1.5 | 2 | 9.9 | 14×2.5 | 2 | 17.8 | 48×0.75 | 2 | 22.0 |
| 5×2.5 | 2 | 11.5 | 14×4 | 2 | 20.4 | 48×1.0 | 2 | 23.5 |
| 5×4 | 2 | 12.9 | 14×6 | 2 | 22.6 | 48×1.5 | 2 | 25.6 |
| 5×6 | 2 | 14.8 | 16×0.75 | 2 | 14.0 | 48×2.5 | 2 | 31.1 |
| 5×10 | 2 | 17.2 | 16×1.0 | 2 | 14.5 | 52×0.75 | 2 | 22.5 |
| 7×0.75 | 2 | 9.5 | 16×1.5 | 2 | 15.9 | 52×1.0 | 2 | 24.0 |
| 7×1.0 | 2 | 9.8 | 16×2.5 | 2 | 18.7 | 52×1.5 | 2 | 26.3 |
| 7×1.5 | 2 | 10.7 | 16×4 | 2 | 21.5 | 52×2.5 | 2 | 32.0 |
| 7×2.5 | 2 | 12.5 | 16×6 | 2 | 23.8 | 61×0.75 | 2 | 24.0 |
| 7×4 | 2 | 14.6 | 19×0.75 | 2 | 14.7 | 61×1.0 | 2 | 25.2 |
| 7×6 | 2 | 16.1 | 19×1.0 | 2 | 15.0 | 61×1.5 | 2 | 28.5 |
| 7×10 | 2 | 18.8 | 19×1.5 | 2 | 16.7 | 61×2.5 | 2 | 33.9 |

## KYJVP型铜芯交联聚乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and copper wire braided shielding (KYJVP)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 1 | 7.8 | 8×0.75 | 1 | 10.9 | 19×6 | 1 | 25.4 |
| 2×1.0 | 1 | 8.0 | 8×1.0 | 1 | 11.3 | 24×0.75 | 1 | 17.4 |
| 2×1.5 | 1 | 8.6 | 8×1.5 | 1 | 12.3 | 24×1.0 | 1 | 18.0 |
| 2×2.5 | 1 | 9.8 | 8×2.5 | 1 | 15.2 | 24×1.5 | 1 | 20.2 |
| 2×4 | 1 | 10.6 | 8×4 | 1 | 16.6 | 24×2.5 | 1 | 23.8 |
| 2×6 | 1 | 11.6 | 8×6 | 1 | 18.3 | 27×0.75 | 1 | 17.7 |
| 2×10 | / | / | 10×0.75 | 1 | 12.2 | 27×1.0 | 1 | 18.3 |
| 3×0.75 | 1 | 8.1 | 10×1.0 | 1 | 13.2 | 27×1.5 | 1 | 20.6 |
| 3×1.0 | 1 | 8.3 | 10×1.5 | 1 | 14.6 | 27×2.5 | 1 | 24.3 |
| 3×1.5 | 1 | 9.0 | 10×2.5 | 1 | 17.0 | 30×0.75 | 1 | 18.3 |
| 3×2.5 | 1 | 10.3 | 10×4 | 1 | 19.0 | 30×1.0 | 1 | 18.9 |
| 3×4 | 1 | 11.1 | 10×6 | 1 | 21.0 | 30×1.5 | 1 | 21.3 |
| 3×6 | 1 | 12.2 | 12×0.75 | 1 | 13.1 | 30×2.5 | 1 | 25.4 |
| 3×10 | / | / | 12×1.0 | 1 | 13.5 | 37×0.75 | 1 | 20.0 |
| 4×0.75 | 1 | 8.7 | 12×1.5 | 1 | 15.0 | 37×1.0 | 1 | 20.7 |
| 4×1.0 | 1 | 8.9 | 12×2.5 | 1 | 17.5 | 37×1.5 | 1 | 22.8 |
| 4×1.5 | 1 | 9.6 | 12×4 | 1 | 19.6 | 37×2.5 | 1 | 27.9 |
| 4×2.5 | 1 | 11.1 | 12×6 | 1 | 21.7 | 44×0.75 | 1 | 22.2 |
| 4×4 | 1 | 12.1 | 14×0.75 | 1 | 13.7 | 44×1.0 | 1 | 23.0 |
| 4×6 | 1 | 14.1 | 14×1.0 | 1 | 14.3 | 44×1.5 | 1 | 26.3 |
| 4×10 | / | / | 14×1.5 | 1 | 15.7 | 44×2.5 | 1 | 31.1 |
| 5×0.75 | 1 | 9.3 | 14×2.5 | 1 | 18.3 | 48×0.75 | 1 | 22.5 |
| 5×1.0 | 1 | 9.6 | 14×4 | 1 | 20.5 | 48×1.0 | 1 | 23.3 |
| 5×1.5 | 1 | 10.9 | 14×6 | 1 | 22.7 | 48×1.5 | 1 | 26.0 |
| 5×2.5 | 1 | 13.1 | 16×0.75 | 1 | 14.5 | 48×2.5 | 1 | 31.5 |
| 5×4 | 1 | 14.5 | 16×1.0 | 1 | 15.0 | 52×0.75 | 1 | 23.1 |
| 5×6 | 1 | 15.8 | 16×1.5 | 1 | 16.4 | 52×1.0 | 1 | 23.9 |
| 5×10 | / | / | 16×2.5 | 1 | 19.6 | 52×1.5 | 1 | 27.3 |
| 7×0.75 | 1 | 10.0 | 16×4 | 1 | 21.5 | 52×2.5 | 1 | 32.4 |
| 7×1.0 | 1 | 10.3 | 16×6 | 1 | 23.9 | 61×0.75 | 1 | 24.4 |
| 7×1.5 | 1 | 11.2 | 19×0.75 | 1 | 15.2 | 61×1.0 | 1 | 25.3 |
| 7×2.5 | 1 | 13.8 | 19×1.0 | 1 | 15.7 | 61×1.5 | 1 | 28.6 |
| 7×4 | 1 | 15.0 | 19×1.5 | 1 | 17.2 | 61×2.5 | 1 | 34.7 |
| 7×6 | 1 | 16.5 | 19×2.5 | 1 | 20.6 | / | / | / |
| 7×10 | / | / | 19×4 | 1 | 22.6 | / | / | / |

## KYJVP型铜芯交联聚乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and copper wire braided shielding (KYJVP)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 2 | 8.0 | 8×0.75 | 2 | 11.3 | 24×0.75 | 2 | 18.0 |
| 2×1.0 | 2 | 8.2 | 8×1.0 | 2 | 11.6 | 24×1.0 | 2 | 18.6 |
| 2×1.5 | 2 | 8.8 | 8×1.5 | 2 | 13.5 | 24×1.5 | 2 | 20.8 |
| 2×2.5 | 2 | 10.0 | 8×2.5 | 2 | 15.6 | 24×2.5 | 2 | 24.4 |
| 2×4 | 2 | 11.0 | 8×4 | 2 | 17.3 | 27×0.75 | 2 | 18.3 |
| 2×6 | 2 | 12.0 | 8×6 | 2 | 19.0 | 27×1.0 | 2 | 19.4 |
| 2×10 | 2 | 14.6 | 8×10 | 2 | 22.5 | 27×1.5 | 2 | 21.2 |
| 3×0.75 | 2 | 8.3 | 10×0.75 | 2 | 13.2 | 27×2.5 | 2 | 25.1 |
| 3×1.0 | 2 | 8.5 | 10×1.0 | 2 | 13.6 | 30×0.75 | 2 | 18.9 |
| 3×1.5 | 2 | 9.2 | 10×1.5 | 2 | 15.0 | 30×1.0 | 2 | 20.0 |
| 3×2.5 | 2 | 10.5 | 10×2.5 | 2 | 17.4 | 30×1.5 | 2 | 21.9 |
| 3×4 | 2 | 11.6 | 10×4 | 2 | 19.4 | 30×2.5 | 2 | 26.0 |
| 3×6 | 2 | 13.2 | 10×6 | 2 | 21.8 | 37×0.75 | 2 | 20.7 |
| 3×10 | 2 | 15.4 | 10×10 | 2 | 25.7 | 37×1.0 | 2 | 21.4 |
| 4×0.75 | 2 | 8.9 | 12×0.75 | 2 | 13.5 | 37×1.5 | 2 | 23.5 |
| 4×1.0 | 2 | 9.2 | 12×1.0 | 2 | 14.2 | 37×2.5 | 2 | 28.6 |
| 4×1.5 | 2 | 9.9 | 12×1.5 | 2 | 15.4 | 44×0.75 | 2 | 23.0 |
| 4×2.5 | 2 | 11.3 | 12×2.5 | 2 | 17.9 | 44×1.0 | 2 | 24.4 |
| 4×4 | 2 | 13.1 | 12×4 | 2 | 20.4 | 44×1.5 | 2 | 27.1 |
| 4×6 | 2 | 14.6 | 12×6 | 2 | 22.5 | 44×2.5 | 2 | 31.9 |
| 4×10 | 2 | 16.8 | 14×0.75 | 2 | 14.3 | 48×0.75 | 2 | 23.3 |
| 5×0.75 | 2 | 9.6 | 14×1.0 | 2 | 14.8 | 48×1.0 | 2 | 24.2 |
| 5×1.0 | 2 | 9.8 | 14×1.5 | 2 | 16.1 | 48×1.5 | 2 | 26.9 |
| 5×1.5 | 2 | 11.2 | 14×2.5 | 2 | 18.8 | 48×2.5 | 2 | 32.3 |
| 5×2.5 | 2 | 13.4 | 14×4 | 2 | 21.4 | 52×0.75 | 2 | 23.9 |
| 5×4 | 2 | 15.0 | 14×6 | 2 | 23.8 | 52×1.0 | 2 | 25.0 |
| 5×6 | 2 | 16.4 | 16×0.75 | 2 | 15.0 | 52×1.5 | 2 | 28.2 |
| 5×10 | 2 | 20.3 | 16×1.0 | 2 | 15.5 | 52×2.5 | 2 | 33.2 |
| 7×0.75 | 2 | 10.3 | 16×1.5 | 2 | 16.9 | 61×0.75 | 2 | 25.3 |
| 7×1.0 | 2 | 10.6 | 16×2.5 | 2 | 20.1 | 61×1.0 | 2 | 26.2 |
| 7×1.5 | 2 | 11.5 | 19×0.75 | 2 | 15.7 | 61×1.5 | 2 | 29.5 |
| 7×2.5 | 2 | 14.1 | 19×1.0 | 2 | 16.2 | 61×2.5 | 2 | 35.6 |
| 7×4 | 2 | 15.6 | 19×1.5 | 2 | 17.7 | / | / | / |
| 7×6 | 2 | 17.1 | 19×2.5 | 2 | 21.1 | / | / | / |
| 7×10 | 2 | 20.2 | / | / | / | / | / | / |

**KYJVP2（P3，P4）型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆**
**Control Cable with Cu conductor,XLPE insulation and PVC sheath and Copper tape(Aluminium polyester tape , Copper polyester tape )shielding KYJVP2(P3,P4)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×0.75 | 1 | 8.3 | 12×0.75 | 1 | 12.8 | 27×0.75 | 1 | 17.1 |
| 4×1.0 | 1 | 8.6 | 12×1.0 | 1 | 13.2 | 27×1.0 | 1 | 17.7 |
| 4×1.5 | 1 | 9.3 | 12×1.5 | 1 | 14.4 | 27×1.5 | 1 | 20.0 |
| 4×2.5 | 1 | 10.7 | 12×2.5 | 1 | 16.9 | 27×2.5 | 1 | 23.7 |
| 4×4 | 1 | 11.7 | 12×4 | 1 | 18.6 | 30×0.75 | 1 | 17.7 |
| 4×6 | 1 | 13.5 | 12×6 | 1 | 21.1 | 30×1.0 | 1 | 18.3 |
| 5×0.75 | 1 | 8.9 | 14×0.75 | 1 | 13.3 | 30×1.5 | 1 | 20.7 |
| 5×1.0 | 1 | 9.2 | 14×1.0 | 1 | 13.7 | 30×2.5 | 1 | 24.5 |
| 5×1.5 | 1 | 10.0 | 14×1.5 | 1 | 15.1 | 37×0.75 | 1 | 19.0 |
| 5×2.5 | 1 | 11.6 | 14×2.5 | 1 | 17.7 | 37×1.0 | 1 | 20.1 |
| 5×4 | 1 | 13.3 | 14×4 | 1 | 19.9 | 37×1.5 | 1 | 22.2 |
| 5×6 | 1 | 14.7 | 14×6 | 1 | 22.1 | 37×2.5 | 1 | 26.4 |
| 7×0.75 | 1 | 9.6 | 16×0.75 | 1 | 13.9 | 44×0.75 | 1 | 21.6 |
| 7×1.0 | 1 | 9.9 | 16×1.0 | 1 | 14.4 | 44×1.0 | 1 | 22.4 |
| 7×1.5 | 1 | 10.8 | 16×1.5 | 1 | 15.8 | 44×1.5 | 1 | 24.8 |
| 7×2.5 | 1 | 12.6 | 16×2.5 | 1 | 19.0 | 44×2.5 | 1 | 30.2 |
| 7×4 | 1 | 14.4 | 16×4 | 1 | 20.9 | 48×0.75 | 1 | 21.9 |
| 7×6 | 1 | 15.9 | 16×6 | 1 | 23.3 | 48×1.0 | 1 | 22.7 |
| 8×0.75 | 1 | 10.6 | 19×0.75 | 1 | 14.6 | 48×1.5 | 1 | 25.2 |
| 8×1.0 | 1 | 10.9 | 19×1.0 | 1 | 15.1 | 48×2.5 | 1 | 30.7 |
| 8×1.5 | 1 | 12.6 | 19×1.5 | 1 | 16.6 | 52×0.75 | 1 | 22.5 |
| 8×2.5 | 1 | 14.6 | 19×2.5 | 1 | 20.0 | 52×1.0 | 1 | 23.3 |
| 8×4 | 1 | 16.0 | 19×4 | 1 | 22.0 | 52×1.5 | 1 | 25.9 |
| 8×6 | 1 | 17.7 | 19×6 | 1 | 24.5 | 52×2.5 | 1 | 31.5 |
| 10×0.75 | 1 | 11.8 | 24×0.75 | 1 | 16.8 | 61×0.75 | 1 | 23.8 |
| 10×1.0 | 1 | 12.8 | 24×1.0 | 1 | 17.4 | 61×1.0 | 1 | 24.7 |
| 10×1.5 | 1 | 14.0 | 24×1.5 | 1 | 19.6 | 61×1.5 | 1 | 27.4 |
| 10×2.5 | 1 | 16.4 | 24×2.5 | 1 | 23.2 | 61×2.5 | 1 | 33.4 |
| 10×4 | 1 | 18.0 | / | / | / | / | / | / |
| 10×6 | 1 | 20.4 | / | / | / | / | / | / |

**KYJVP2（P3，P4）型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆**
**Control Cable with Cu conductor,XLPE insulation and PVC sheath and Copper tape(Aluminium polyester tape , Copper polyester tape )shielding KYJVP2(P3,P4)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×0.75 | 2 | 8.6 | 10×1.5 | 2 | 14.4 | 24×1.0 | 2 | 18.0 |
| 4×1.0 | 2 | 8.8 | 10×2.5 | 2 | 16.8 | 24×1.5 | 2 | 20.2 |
| 4×1.5 | 2 | 9.5 | 10×4 | 2 | 18.8 | 24×2.5 | 2 | 23.8 |
| 4×2.5 | 2 | 11.0 | 10×6 | 2 | 21.2 | 27×0.75 | 2 | 17.7 |
| 4×4 | 2 | 12.2 | 10×10 | 2 | 24.8 | 27×1.0 | 2 | 18.4 |
| 4×6 | 2 | 14.0 | 12×0.75 | 2 | 13.2 | 27×1.5 | 2 | 20.6 |
| 4×10 | 2 | 16.2 | 12×1.0 | 2 | 13.6 | 27×2.5 | 2 | 24.3 |
| 5×0.75 | 2 | 9.2 | 12×1.5 | 2 | 14.8 | 30×0.75 | 2 | 18.3 |
| 5×1.0 | 2 | 9.5 | 12×2.5 | 2 | 17.3 | 30×1.0 | 2 | 19.0 |
| 5×1.5 | 2 | 10.3 | 12×4 | 2 | 19.8 | 30×1.5 | 2 | 21.3 |
| 5×2.5 | 2 | 11.9 | 12×6 | 2 | 21.9 | 30×2.5 | 2 | 25.2 |
| 5×4 | 2 | 13.9 | 12×10 | 2 | 25.6 | 37×0.75 | 2 | 20.1 |
| 5×6 | 2 | 15.2 | 14×0.75 | 2 | 13.7 | 37×1.0 | 2 | 20.8 |
| 5×10 | 2 | 17.6 | 14×1.0 | 2 | 14.2 | 37×1.5 | 2 | 22.9 |
| 7×0.75 | 2 | 9.9 | 14×1.5 | 2 | 15.5 | 37×2.5 | 2 | 27.1 |
| 7×1.0 | 2 | 10.2 | 14×2.5 | 2 | 18.2 | 44×0.75 | 2 | 22.4 |
| 7×1.5 | 2 | 11.1 | 14×4 | 2 | 20.8 | 44×1.0 | 2 | 23.2 |
| 7×2.5 | 2 | 13.5 | 14×6 | 2 | 23.0 | 44×1.5 | 2 | 25.6 |
| 7×4 | 2 | 15.0 | 14×10 | 2 | 26.9 | 44×2.5 | 2 | 31.0 |
| 7×6 | 2 | 16.5 | 16×0.75 | 2 | 14.4 | 48×0.75 | 2 | 22.7 |
| 7×10 | 2 | 19.2 | 16×1.0 | 2 | 14.9 | 48×1.0 | 2 | 23.6 |
| 8×0.75 | 2 | 10.9 | 16×1.5 | 2 | 16.3 | 48×1.5 | 2 | 26.0 |
| 8×1.0 | 2 | 11.3 | 16×2.5 | 2 | 19.5 | 48×2.5 | 2 | 31.5 |
| 8×1.5 | 2 | 12.9 | 19×0.75 | 2 | 15.1 | 52×0.75 | 2 | 23.3 |
| 8×2.5 | 2 | 15.0 | 19×1.0 | 2 | 15.6 | 52×1.0 | 2 | 24.2 |
| 8×4 | 2 | 16.7 | 19×1.5 | 2 | 17.1 | 52×1.5 | 2 | 26.7 |
| 8×6 | 2 | 18.4 | 19×2.5 | 2 | 20.5 | 52×2.5 | 2 | 32.4 |
| 8×10 | 2 | 21.9 | 19×4 | 2 | 23.0 | 61×0.75 | 2 | 24.7 |
| 10×0.75 | 2 | 12.8 | 19×6 | 2 | 25.5 | 61×1.0 | 2 | 25.6 |
| 10×1.0 | 2 | 13.2 | 24×0.75 | 2 | 17.4 | 61×1.5 | 2 | 28.3 |
| / | / | / | / | / | / | 61×2.5 | 2 | 34.7 |

## KYJV22型铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel tape armored (KYJV22)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 1 | 12.3 | 12×1.5 | 1 | 16.8 | 27×1.5 | 1 | 22.4 |
| 4×2.5 | 1 | 13.7 | 12×2.5 | 1 | 19.7 | 27×2.5 | 1 | 26.1 |
| 4×4 | 1 | 14.7 | 12×4 | 1 | 21.4 | 30×0.75 | 1 | 20.5 |
| 4×6 | 1 | 15.9 | 12×6 | 1 | 23.5 | 30×1.0 | 1 | 21.1 |
| 5×1.5 | 1 | 13.0 | 14×0.75 | 1 | 15.7 | 30×1.5 | 1 | 23.1 |
| 5×2.5 | 1 | 14.6 | 14×1.0 | 1 | 16.1 | 30×2.5 | 1 | 27.3 |
| 5×4 | 1 | 15.7 | 14×1.5 | 1 | 17.5 | 37×0.75 | 1 | 21.8 |
| 5×6 | 1 | 17.1 | 14×2.5 | 1 | 20.5 | 37×1.0 | 1 | 22.5 |
| 7×0.75 | 1 | 12.6 | 14×4 | 1 | 22.3 | 37×1.5 | 1 | 24.6 |
| 7×1.0 | 1 | 12.9 | 14×6 | 1 | 24.5 | 37×2.5 | 1 | 29.8 |
| 7×1.5 | 1 | 13.8 | 16×0.75 | 1 | 16.3 | 44×0.75 | 1 | 24.0 |
| 7×2.5 | 1 | 15.6 | 16×1.0 | 1 | 16.8 | 44×1.0 | 1 | 24.8 |
| 7×4 | 1 | 16.8 | 16×1.5 | 1 | 18.2 | 44×1.5 | 1 | 27.6 |
| 7×6 | 1 | 18.3 | 16×2.5 | 1 | 21.4 | 44×2.5 | 1 | 33.0 |
| 8×0.75 | 1 | 13.6 | 16×4 | 1 | 23.3 | 48×0.75 | 1 | 24.3 |
| 8×1.0 | 1 | 13.9 | 16×6 | 1 | 25.7 | 48×1.0 | 1 | 25.1 |
| 8×1.5 | 1 | 15.0 | 19×0.75 | 1 | 17.0 | 48×1.5 | 1 | 28.0 |
| 8×2.5 | 1 | 17.0 | 19×1.0 | 1 | 17.5 | 48×2.5 | 1 | 33.5 |
| 8×4 | 1 | 18.4 | 19×1.5 | 1 | 19.0 | 52×0.75 | 1 | 24.9 |
| 8×6 | 1 | 20.5 | 19×2.5 | 1 | 22.4 | 52×1.0 | 1 | 25.7 |
| 10×0.75 | 1 | 14.8 | 19×4 | 1 | 24.4 | 52×1.5 | 1 | 29.3 |
| 10×1.0 | 1 | 15.2 | 19×6 | 1 | 27.3 | 52×2.5 | 1 | 34.7 |
| 10×1.5 | 1 | 16.4 | 24×0.75 | 1 | 19.6 | 61×0.75 | 1 | 26.2 |
| 10×2.5 | 1 | 18.8 | 24×1.0 | 1 | 20.2 | 61×1.0 | 1 | 27.5 |
| 10×4 | / | 20.8 | 24×1.5 | 1 | 22.0 | 61×1.5 | 1 | 30.8 |
| 10×6 | 1 | 22.8 | 24×2.5 | 1 | 26.2 | 61×2.5 | 1 | 37.8 |
| 12×0.75 | 1 | 15.2 | 27×0.75 | 1 | 19.9 | / | / | / |
| 12×1.0 | 1 | 15.6 | 27×1.0 | 1 | 20.5 | / | / | / |

## KYJV22型铜芯交联聚乙烯绝缘聚氯乙烯护套钢带铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel tape armored (KYJV22)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 2 | 12.5 | 10×6 | 2 | 23.6 | 24×2.5 | 2 | 26.2 |
| 4×2.5 | 2 | 14.0 | 10×10 | 2 | 27.6 | 27×0.75 | 2 | 20.5 |
| 4×4 | 2 | 15.2 | 12×0.75 | 2 | 15.6 | 27×1.0 | 2 | 21.2 |
| 4×6 | 2 | 16.4 | 12×1.0 | 2 | 16.0 | 27×1.5 | 2 | 23.0 |
| 4×10 | 2 | 18.6 | 12×1.5 | 2 | 17.2 | 27×2.5 | 2 | 27.1 |
| 5×1.5 | 2 | 13.3 | 12×2.5 | 2 | 20.1 | 30×0.75 | 2 | 21.1 |
| 5×2.5 | 2 | 14.9 | 12×4 | 2 | 22.2 | 30×1.0 | 2 | 21.8 |
| 5×4 | 2 | 16.3 | 12×6 | 2 | 24.3 | 30×1.5 | 2 | 23.7 |
| 5×6 | 2 | 17.6 | 14×0.75 | 2 | 16.1 | 30×2.5 | 2 | 28.0 |
| 5×10 | 2 | 20.4 | 14×1.0 | 2 | 16.6 | 37×0.75 | 2 | 22.5 |
| 7×0.75 | 2 | 12.9 | 14×1.5 | 2 | 17.9 | 37×1.0 | 2 | 23.2 |
| 7×1.0 | 2 | 13.2 | 14×2.5 | 2 | 21.0 | 37×1.5 | 2 | 25.3 |
| 7×1.5 | 2 | 14.1 | 14×4 | 2 | 23.2 | 37×2.5 | 2 | 30.5 |
| 7×2.5 | 2 | 15.9 | 14×6 | 2 | 25.4 | 44×0.75 | 2 | 24.8 |
| 7×4 | 2 | 17.4 | 16×0.75 | 2 | 16.8 | 44×1.0 | 2 | 25.6 |
| 7×6 | 2 | 18.9 | 16×1.0 | 2 | 17.3 | 44×1.5 | 2 | 28.4 |
| 7×10 | 2 | 22.0 | 16×1.5 | 2 | 18.7 | 44×2.5 | 2 | 33.8 |
| 8×0.75 | 2 | 13.9 | 16×2.5 | 2 | 21.9 | 48×0.75 | 2 | 25.1 |
| 8×1.0 | 2 | 14.3 | 16×4 | 2 | 24.3 | 48×1.0 | 2 | 26.0 |
| 8×1.5 | 2 | 15.3 | 16×6 | 2 | 27.0 | 48×1.5 | 2 | 29.4 |
| 8×2.5 | 2 | 17.4 | 19×0.75 | 2 | 17.5 | 48×2.5 | 2 | 34.7 |
| 8×4 | 2 | 19.5 | 19×1.0 | 2 | 18.0 | 52×0.75 | 2 | 25.7 |
| 8×6 | 2 | 21.2 | 19×1.5 | 2 | 19.5 | 52×1.0 | 2 | 27.0 |
| 8×10 | 2 | 24.3 | 19×2.5 | 2 | 22.9 | 52×1.5 | 2 | 30.1 |
| 10×0.75 | 2 | 15.2 | 19×4 | 2 | 25.4 | 52×2.5 | 2 | 36.8 |
| 10×1.0 | 2 | 15.6 | 19×6 | 2 | 28.3 | 61×0.75 | 2 | 27.5 |
| 10×1.5 | 2 | 16.8 | 24×0.75 | 2 | 20.2 | 61×1.0 | 2 | 28.4 |
| 10×2.5 | 2 | 19.6 | 24×1.0 | 2 | 20.8 | 61×1.5 | 2 | 31.7 |
| 10×4 | 2 | 21.6 | 24×1.5 | 2 | 22.6 | 61×2.5 | 2 | 38.7 |

## KYJVP2（P3，P4）-22型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath ,Copper tape(Aluminium polyester tape , Copper polyester tape )shielding and steel tape armored KYJVP2(P3,P4)-22

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 1 | 12.0 | 12×1.5 | 1 | 17.2 | 27×1.5 | 1 | 22.8 |
| 4×2.5 | 1 | 12.7 | 12×2.5 | 1 | 20.1 | 27×2.5 | 1 | 26.9 |
| 4×4 | 1 | 14.1 | 12×4 | 1 | 21.8 | 30×0.75 | 1 | 20.9 |
| 4×6 | 1 | 15.1 | 12×6 | 1 | 23.9 | 30×1.0 | 1 | 21.5 |
| 5×1.5 | 1 | 13.4 | 14×0.75 | 1 | 16.1 | 30×1.5 | 1 | 23.5 |
| 5×2.5 | 1 | 15.0 | 14×1.0 | 1 | 16.5 | 30×2.5 | 1 | 27.7 |
| 5×4 | 1 | 16.1 | 14×1.5 | 1 | 17.9 | 37×0.75 | 1 | 22.2 |
| 5×6 | 1 | 17.5 | 14×2.5 | 1 | 20.9 | 37×1.0 | 1 | 22.9 |
| 7×0.75 | 1 | 13.0 | 14×4 | 1 | 22.7 | 37×1.5 | 1 | 25.0 |
| 7×1.0 | 1 | 13.3 | 14×6 | 1 | 24.9 | 37×2.5 | 1 | 30.2 |
| 7×1.5 | 1 | 14.2 | 16×0.75 | 1 | 16.7 | 44×0.75 | 1 | 24.4 |
| 7×2.5 | 1 | 16.0 | 16×1.0 | 1 | 17.2 | 44×1.0 | 1 | 25.2 |
| 7×4 | 1 | 17.2 | 16×1.5 | 1 | 18.6 | 44×1.5 | 1 | 28.0 |
| 7×6 | 1 | 18.7 | 16×2.5 | 1 | 21.8 | 44×2.5 | 1 | 33.4 |
| 8×0.75 | 1 | 14.0 | 16×4 | 1 | 20.9 | 48×0.75 | 1 | 24.7 |
| 8×1.0 | 1 | 14.3 | 16×6 | 1 | 23.3 | 48×1.0 | 1 | 25.2 |
| 8×1.5 | 1 | 15.4 | 19×0.75 | 1 | 17.4 | 48×1.5 | 1 | 28.0 |
| 8×2.5 | 1 | 17.4 | 19×1.0 | 1 | 17.9 | 48×2.5 | 1 | 33.4 |
| 8×4 | 1 | 18.8 | 19×1.5 | 1 | 19.8 | 52×0.75 | 1 | 25.3 |
| 8×6 | 1 | 20.9 | 19×2.5 | 1 | 22.8 | 52×1.0 | 1 | 26.1 |
| 10×0.75 | 1 | 15.2 | 19×4 | 1 | 24.8 | 52×1.5 | 1 | 29.7 |
| 10×1.0 | 1 | 15.6 | 19×6 | 1 | 27.3 | 52×2.5 | 1 | 35.1 |
| 10×1.5 | 1 | 16.8 | 24×0.75 | 1 | 20.0 | 61×0.75 | 1 | 27.0 |
| 10×2.5 | 1 | 19.6 | 24×1.0 | 1 | 20.6 | 61×1.0 | 1 | 27.9 |
| 10×4 | / | 21.2 | 24×1.5 | / | 22.4 | 61×1.5 | 1 | 31.2 |
| 10×6 | 1 | 23.2 | 24×2.5 | 1 | 26.0 | 61×2.5 | 1 | 38.2 |
| 12×0.75 | 1 | 15.6 | 27×0.75 | 1 | 20.3 | / | / | / |
| 12×1.0 | 1 | 16.0 | 27×1.0 | 1 | 20.9 | / | / | / |

## KYJVP2（P3，P4）-22型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath ,Copper tape shielding and steel tape armored (Aluminium/plastic composite tape,copper/plastic composite tape)KYJVP2(P3、P4)-22

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 2 | 12.9 | 10×6 | 2 | 24.0 | 24×2.5 | 2 | 27.0 |
| 4×2.5 | 2 | 14.4 | 10×10 | 2 | 28.0 | 27×0.75 | 2 | 20.9 |
| 4×4 | 2 | 15.6 | 12×0.75 | 2 | 16.0 | 27×1.0 | 2 | 21.6 |
| 4×6 | 2 | 16.8 | 12×1.0 | 2 | 16.4 | 27×1.5 | 2 | 23.4 |
| 4×10 | 2 | 19.0 | 12×1.5 | 2 | 17.6 | 27×2.5 | 2 | 27.5 |
| 5×1.5 | 2 | 13.7 | 12×2.5 | 2 | 20.5 | 30×0.75 | 2 | 21.5 |
| 5×2.5 | 2 | 15.3 | 12×4 | 2 | 22.6 | 30×1.0 | 2 | 22.2 |
| 5×4 | 2 | 16.7 | 12×6 | 2 | 24.7 | 30×1.5 | 2 | 24.1 |
| 5×6 | 2 | 18.0 | 14×0.75 | 2 | 16.5 | 30×2.5 | 2 | 28.4 |
| 5×10 | 2 | 20.8 | 14×1.0 | 2 | 17.0 | 37×0.75 | 2 | 22.9 |
| 7×0.75 | 2 | 13.3 | 14×1.5 | 2 | 18.3 | 37×1.0 | 2 | 23.6 |
| 7×1.0 | 2 | 13.6 | 14×2.5 | 2 | 21.4 | 37×1.5 | 2 | 25.7 |
| 7×1.5 | 2 | 14.5 | 14×4 | 2 | 23.6 | 37×2.5 | 2 | 30.9 |
| 7×2.5 | 2 | 16.3 | 14×6 | 2 | 25.8 | 44×0.75 | 2 | 25.2 |
| 7×4 | 2 | 17.8 | 16×0.75 | 2 | 17.2 | 44×1.0 | 2 | 26.0 |
| 7×6 | 2 | 19.7 | 16×1.0 | 2 | 17.7 | 44×1.5 | 2 | 29.4 |
| 7×10 | 2 | 22.4 | 16×1.5 | 2 | 19.5 | 44×2.5 | 2 | 34.6 |
| 8×0.75 | 2 | 14.3 | 16×2.5 | 2 | 22.3 | 48×0.75 | 2 | 25.5 |
| 8×1.0 | 2 | 14.7 | 16×4 | 2 | 24.7 | 48×1.0 | 2 | 26.0 |
| 8×1.5 | 2 | 15.7 | 16×6 | 2 | 27.4 | 48×1.5 | 2 | 29.4 |
| 8×2.5 | 2 | 17.8 | 19×0.75 | 2 | 17.9 | 48×2.5 | 2 | 34.6 |
| 8×4 | 2 | 19.9 | 19×1.0 | 2 | 18.4 | 52×0.75 | 2 | 26.1 |
| 8×6 | 2 | 21.6 | 19×1.5 | 2 | 20.3 | 52×1.0 | 2 | 27.4 |
| 8×10 | 2 | 24.7 | 19×2.5 | 2 | 23.3 | 52×1.5 | 2 | 30.5 |
| 10×0.75 | 2 | 15.6 | 19×4 | 2 | 25.8 | 52×2.5 | 2 | 37.2 |
| 10×1.0 | 2 | 16.0 | 19×6 | 2 | 28.3 | 61×0.75 | 2 | 27.9 |
| 10×1.5 | 2 | 17.2 | 24×0.75 | 2 | 20.6 | 61×1.0 | 2 | 29.4 |
| 10×2.5 | 2 | 20.0 | 24×1.0 | 2 | 21.2 | 61×1.5 | 2 | 32.1 |
| 10×4 | 2 | 22.0 | 24×1.5 | 2 | 23.0 | 61×2.5 | 2 | 39.1 |

## KYJV32型铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel wire armored (KYJV32)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 1 | 14.5 | 14×1.5 | 1 | 19.6 | 30×1.5 | 1 | 25.5 |
| 4×4 | 1 | 16.4 | 14×2.5 | 1 | 22.9 | 30×2.5 | 1 | 29.7 |
| 4×6 | 1 | 17.6 | 14×4 | 1 | 24.7 | 37×0.75 | 1 | 24.2 |
| 5×2.5 | 1 | 16.3 | 14×6 | 1 | 26.9 | 37×1.0 | 1 | 24.9 |
| 5×4 | 1 | 17.4 | 16×1.5 | 1 | 20.3 | 37×1.5 | 1 | 27.0 |
| 5×6 | 1 | 18.8 | 16×2.5 | 1 | 23.8 | 37×2.5 | 1 | 32.2 |
| 7×1.5 | 1 | 14.6 | 19×0.75 | 1 | 18.7 | 44×0.75 | 1 | 26.4 |
| 7×2.5 | 1 | 17.3 | 19×1.0 | 1 | 19.6 | 44×1.0 | 1 | 27.2 |
| 7×4 | 1 | 18.5 | 19×1.5 | 1 | 21.8 | 44×1.5 | 1 | 30.6 |
| 7×6 | 1 | 20.4 | 19×2.5 | 1 | 24.8 | 44×2.5 | 1 | 36.2 |
| 8×1.5 | 1 | 14.6 | 19×4 | 1 | 26.8 | 48×0.75 | 1 | 26.7 |
| 8×2.5 | 1 | 17.3 | 19×6 | 1 | 29.7 | 48×1.0 | 1 | 27.5 |
| 8×4 | 1 | 18.5 | 24×0.75 | 1 | 22.0 | 48×1.5 | 1 | 31.0 |
| 8×6 | 1 | 20.4 | 24×1.0 | 1 | 22.6 | 48×2.5 | 1 | 37.1 |
| 10×1.5 | 1 | 18.1 | 24×1.5 | 1 | 24.4 | 52×0.75 | 1 | 27.3 |
| 10×2.5 | 1 | 20.9 | 24×2.5 | 1 | 28.0 | 52×1.0 | 1 | 28.1 |
| 10×4 | 1 | 23.2 | 27×0.75 | 1 | 22.3 | 52×1.5 | 1 | 31.7 |
| 10×6 | 1 | 25.2 | 27×1.0 | 1 | 22.5 | 52×2.5 | 1 | 37.5 |
| 12×1.5 | 1 | 18.5 | 27×1.5 | 1 | 24.8 | 61×0.75 | 1 | 32.4 |
| 12×2.5 | 1 | 22.1 | 27×2.5 | 1 | 29.1 | 61×1.0 | 1 | 33.7 |
| 12×4 | 1 | 23.8 | 30×0.75 | 1 | 22.9 | 61×1.5 | 1 | 38.4 |
| 12×6 | 1 | 25.9 | 30×1.0 | 1 | 23.5 | 61×2.5 | 1 | 43.8 |

## KYJV32型铜芯交联聚乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆
## Control Cable with Cu conductor,XLPE insulation and PVC sheath and steel 1ire armored (KYJV32)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 近似外径 mm APPROX OD |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 2 | 15.7 | 12×1.5 | 2 | 18.9 | 30×0.75 | 2 | 23.5 |
| 4×4 | 2 | 16.9 | 12×2.5 | 2 | 22.5 | 30×1.0 | 2 | 24.2 |
| 4×6 | 2 | 18.1 | 12×4 | 2 | 24.6 | 30×1.5 | 2 | 26.1 |
| 4×10 | 2 | 20.7 | 12×6 | 2 | 26.7 | 30×2.5 | 2 | 31.0 |
| 5×2.5 | 2 | 16.6 | 14×1.5 | 2 | 20.0 | 37×0.75 | 2 | 24.9 |
| 5×4 | 2 | 18.0 | 14×2.5 | 2 | 23.4 | 37×1.0 | 2 | 25.6 |
| 5×6 | 2 | 19.7 | 14×4 | 2 | 25.6 | 37×1.5 | 2 | 27.7 |
| 5×10 | 2 | 22.8 | 14×6 | 2 | 27.8 | 37×2.5 | 2 | 33.7 |
| 7×1.5 | 2 | 15.8 | 16×1.5 | 2 | 20.8 | 44×0.75 | 2 | 27.2 |
| 7×2.5 | 2 | 17.6 | 16×2.5 | 2 | 24.3 | 44×1.0 | 2 | 28.0 |
| 7×4 | 2 | 19.5 | 19×0.75 | 2 | 19.6 | 44×1.5 | 2 | 31.4 |
| 7×6 | 2 | 21.7 | 19×1.0 | 2 | 20.1 | 44×2.5 | 2 | 37.4 |
| 7×10 | 2 | 24.4 | 19×1.5 | 2 | 22.3 | 48×0.75 | 2 | 27.5 |
| 8×1.5 | 2 | 17.0 | 19×2.5 | 2 | 25.3 | 48×1.0 | 2 | 28.4 |
| 8×2.5 | 2 | 19.1 | 19×4 | 2 | 27.8 | 48×1.5 | 2 | 31.8 |
| 8×4 | 2 | 21.9 | 19×6 | 2 | 31.3 | 48×2.5 | 2 | 37.9 |
| 8×6 | 2 | 23.6 | 24×0.75 | 2 | 22.6 | 52×0.75 | 2 | 28.1 |
| 8×10 | 2 | 26.7 | 24×1.0 | 2 | 23.2 | 52×1.0 | 2 | 30.0 |
| 10×1.5 | 2 | 18.5 | 24×1.5 | 2 | 25.0 | 52×1.5 | 2 | 33.3 |
| 10×2.5 | 2 | 22.0 | 24×2.5 | 2 | 29.2 | 52×2.5 | 2 | 38.8 |
| 10×4 | 2 | 24.0 | 27×0.75 | 2 | 22.9 | 61×0.75 | 2 | 33.7 |
| 10×6 | 2 | 26.0 | 27×1.0 | 2 | 23.6 | 61×1.0 | 2 | 35.0 |
| 10×10 | 2 | 30.6 | 27×1.5 | 2 | 25.4 | 61×1.5 | 2 | 39.3 |
| / | / | / | 27×2.5 | 2 | 30.1 | 61×2.5 | 2 | 45.3 |

# 聚氯乙烯绝缘控制电缆

## Control Cable with PVC Insulation

本产品适用于交流额定电压450/750V及以下控制，监控回路及保护线路等场合使用。

This product is suitable for Protective link or control & monitoring circuits, with the AC rated voltages up to and including 450/750V

## 一、生产执行标准

GB/T 9330-2020。

## Executive standard

GB/T 9330-2020.

## 二、使用特点

1、电缆导体的长期允许工作温度为70℃；

2、电缆的敷设温度应不低于0℃，推荐的允许弯曲半径：无铠装层的电缆，应不小于电缆外径的6倍；有铠装或铜带屏蔽结构的电缆；应不小于电缆外径的12倍；有屏蔽层结构的软电缆，应不小于电缆外径的6倍。

## Operational performance

1.Long term working temperature of conductor allowed by cable is 70°C.

2.Environment temperature for installation is no less than 0°C. Recommended Bending Radius for laying:For armored cable or copper tape shielding cable , not less than 12 times of cable outer diameter.For screened flexible cable and without armor cable , not less than 6 times.

## 三、电缆型号及主要使用范围

## Type , Description and Application Occasion

| 型号 Type | 名称 Description | 主要使用范围 Application occasion |
|---|---|---|
| KVV | 铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆<br>Control cable with Cu core, PVC insulation and sheath | 敷设在室内、电缆沟、管道固定场合<br>Lay in a fixed place,such as indoors, cable trench and conduit |
| KVVP | 铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆<br>Control cable with Cu core, PVC insulation and sheath, copper wire braided shielding | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合<br>For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation. |
| KVVP2 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆<br>Control cable with Cu core, PVC insulation and sheath, copper tape shielding | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合<br>For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation. |
| KVVP3 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铝塑复合带屏蔽控制电缆<br>Control cable with Cu conductor, PVC insulation, PVC sheath and Aluminum polyester tape | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合<br>For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation. |
| KVVP4 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铜塑复合带屏蔽控制电缆<br>Control cable with Cu conductor, PVC insulation, PVC sheath and Cu polyester tape | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合<br>For laying indoors, in cable trench and conduit.the cable should be shielded and for fixed installation. |
| KVV22 | 铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆<br>Control cable with Cu core, PVC insulation and sheath, steel tape armoring | 敷设在室内、电缆沟、管道直埋等能承受较大机械外力的固定场合<br>For laying indoors, in cable trench, in conduit and underground , able to bear heavier pulling force, and for fixed installation. |
| KVVP2-22 | 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆<br>Control cable with Cu conductor, PVC insulation, PVC sheath and steel tape armred | 敷设在室内、电缆沟、管道直埋等要求屏蔽并能承受较大机械外力的固定场合<br>For laying indoors, in cable trench, in conduit and underground , able to bear heavier pulling force, the cable should be shielded and for fixed installation. |
| KVV32 | 铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆<br>Control cable with Cu core, PVC insulation and sheath, steel wire armoring | 敷设在室内、电缆沟、管道竖井等能承受较大机械拉力等固定场合<br>For laying indoors, in trenches, in ducts and down well , able to bear heavier pulling force, and for fixed installation. |
| KVVR | 铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆<br>Control soft cable with Cu core, PVC insulation and sheath | 敷设在室内移动要求柔软等场合<br>To be laid indoor with demand on mobility and softness |
| KVVRP | 铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制软电缆<br>Control soft cable with Cu core, PVC insulation and sheath, copper wire braided shielding | 敷设在室内移动要求柔软、屏蔽等场合<br>To be laid indoor with demand on shielding and softness |

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。

## 四、生产范围 Production Scope

| 型号 Type | 导体标称截面 mm² Nominal cross section of conductor area | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 0.5 | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | 芯数 Core number | | | | | | | |
| KVV，KVVP | / | 2~61 | | | | 2~19 | | 2~10 |
| KVVP2，KVVP3，KVVP4 | / | 4~61 | | | | 4~19 | | 4~10 |
| KVV22 | / | 7~61 | | 4~61 | | 4~19 | | 4~10 |
| KVVP2-22 | / | 7~61 | | 4~61 | | 4~19 | | 4~10 |
| KVV32 | / | 19~61 | | 4~61 | | 4~19 | | 4~10 |
| KVVR | 2~61 | | | | | / | | / |
| KVVRP | 2~61 | | | 2~48 | | / | | / |

注：阻燃电缆、耐火电缆及其组合型电缆的规格范围同上述对应型号的规格范围。
推荐的芯数系列为：2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。
The specifications of flame retardant cable,fire resistant and its combination cable shall be the same as the specifications of the corresponding modles in the table above.Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.

## 五、技术参数 Technical Parameter

1、成品电缆导体20℃时直流电阻

1、DC resistance of finished cable conductor at 20℃.

| 项目 Item | 单位 Unit | 技术指标 Technical indices | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 20℃时导体直流电阻 DC resistance of conductor at 20℃ | Ω/km | 截面mm² Cross section area | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | | 1类或2类 Category 1 or2 | 24.5 | 18.1 | 12.2 | 7.41 | 4.61 | 3.08 | 1.83 |
| | | 5类，Category 5 | 26.0 | 19.5 | 13.3 | 7.98 | / | / | / |

2、成品电缆应经受3.0kV/5min工频交流电压试验，绝缘不击穿。

2、Finished cable should bear A.C. voltage of 3.0KV under power frequency for 5min without puncture of insulation.

3、电缆在70℃时绝缘电阻。

3、Insulation resistance of finished cable at 70℃.

| 项目 Item | 单位 Unit | 技术指标 Technical indices | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 70℃时绝缘电阻 Insulation resistance at 70℃ | MΩ.km | 截面mm² Cross section area | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | | 1类，Category 1 | 0.012 | 0.011 | 0.011 | 0.010 | 0.0085 | 0.0079 | / |
| | | 2类，Category 2 | 0.014 | 0.013 | 0.010 | 0.009 | 0.0077 | 0.0065 | 0.0065 |

## 六、典型电缆结构及外形尺寸 External Dimension of Common Type

**KVV型铜芯聚氯乙烯绝缘及护套控制电缆**
**Control cable with Cu core, PVC insulation and sheath (KVV)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 1 | 7.0 | 8×2.5 | 1 | 14.9 | 24×0.75 | 1 | 16.4 |
| 2×1.0 | 1 | 7.2 | 8×4 | 1 | 16.3 | 24×1.0 | 1 | 17.0 |
| 2×1.5 | 1 | 8.2 | 8×6 | 1 | 18.0 | 24×1.5 | 1 | 20.4 |
| 2×2.5 | 1 | 9.4 | 10×0.75 | 1 | 11.4 | 24×2.5 | 1 | 24.0 |
| 2×4 | 1 | 10.2 | 10×1.0 | 1 | 11.8 | 27×0.75 | 1 | 16.7 |
| 2×6 | 1 | 11.2 | 10×1.5 | 1 | 14.4 | 27×1.0 | 1 | 17.3 |
| 3×0.75 | 1 | 7.4 | 10×2.5 | 1 | 16.8 | 27×1.5 | 1 | 20.8 |
| 3×1.0 | 1 | 7.6 | 10×4 | 1 | 18.4 | 27×2.5 | 1 | 24.5 |
| 3×1.5 | 1 | 8.6 | 10×6 | 1 | 20.8 | 30×0.75 | 1 | 17.3 |
| 3×2.5 | 1 | 9.9 | 12×0.75 | 1 | 11.8 | 30×1.0 | 1 | 17.9 |
| 3×4 | 1 | 10.8 | 12×1.0 | 1 | 12.2 | 30×1.5 | 1 | 21.5 |
| 3×6 | 1 | 11.9 | 12×1.5 | 1 | 14.8 | 30×2.5 | 1 | 25.4 |
| 4×0.75 | 1 | 7.9 | 12×2.5 | 1 | 17.3 | 37×0.75 | 1 | 18.6 |
| 4×1.0 | 1 | 8.2 | 12×4 | 1 | 19.0 | 37×1.0 | 1 | 19.7 |
| 4×1.5 | 1 | 9.4 | 12×6 | 1 | 21.5 | 37×1.5 | 1 | 23.2 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 1 | 10.8 | 14×0.75 | 1 | 12.3 | 37×2.5 | 1 | 27.4 |
| 4×4 | 1 | 11.8 | 14×1.0 | 1 | 13.3 | 44×0.75 | 1 | 21.2 |
| 4×6 | 1 | 13.6 | 14×1.5 | 1 | 15.5 | 44×1.0 | 1 | 22.0 |
| 5×0.75 | 1 | 8.5 | 14×2.5 | 1 | 18.2 | 44×1.5 | 1 | 26.0 |
| 5×1.0 | 1 | 8.8 | 14×4 | 1 | 20.4 | 44×2.5 | 1 | 31.4 |
| 5×1.5 | 1 | 10.2 | 14×6 | 1 | 22.6 | 48×0.75 | 1 | 21.5 |
| 5×2.5 | 1 | 11.8 | 16×0.75 | 1 | 13.5 | 48×1.0 | 1 | 22.3 |
| 5×4 | 1 | 13.5 | 16×1.0 | 1 | 14.0 | 48×1.5 | 1 | 26.4 |
| 5×6 | 1 | 14.8 | 16×1.5 | 1 | 16.4 | 48×2.5 | 1 | 31.9 |
| 7×0.75 | 1 | 9.2 | 16×2.5 | 1 | 19.6 | 52×0.75 | 1 | 22.1 |
| 7×1.0 | 1 | 9.5 | 16×4 | 1 | 21.5 | 52×1.0 | 1 | 22.9 |
| 7×1.5 | 1 | 11.0 | 16×6 | 1 | 23.8 | 52×1.5 | 1 | 27.1 |
| 7×2.5 | 1 | 13.4 | 19×0.75 | 1 | 14.2 | 52×2.5 | 1 | 32.8 |
| 7×4 | 1 | 14.6 | 19×1.0 | 1 | 14.7 | 61×0.75 | 1 | 23.4 |
| 7×6 | 1 | 16.1 | 19×1.5 | 1 | 17.2 | 61×1.0 | 1 | 24.3 |
| 8×0.75 | 1 | 10.2 | 19×2.5 | 1 | 20.6 | 61×1.5 | 1 | 29.4 |
| 8×1.0 | 1 | 10.5 | 19×4 | 1 | 22.6 | 61×2.5 | 1 | 35.2 |
| 8×1.5 | 1 | 12.3 | 19×6 | 1 | 25.1 | / | / | / |

**KVV型铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆**
**Control Cable with Cu conductor,PVC insulation and PVC sheath (KVV)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 2 | 7.2 | 8×0.75 | 2 | 10.5 | 19×2.5 | 2 | 21.1 |
| 2×1.0 | 2 | 7.4 | 8×1.0 | 2 | 10.9 | 19×4 | 2 | 23.6 |
| 2×1.5 | 2 | 8.4 | 8×1.5 | 2 | 12.6 | 19×6 | 2 | 26.1 |
| 2×2.5 | 2 | 9.6 | 8×2.5 | 2 | 15.3 | 24×0.75 | 2 | 17.0 |
| 2×4 | 2 | 10.6 | 8×4 | 2 | 17.0 | 24×1.0 | 2 | 17.6 |
| 2×6 | 2 | 11.6 | 8×6 | 2 | 18.7 | 24×1.5 | 2 | 21.0 |
| 2×10 | 2 | 14.8 | 8×10 | 2 | 23.6 | 24×2.5 | 2 | 24.6 |
| 3×0.75 | 2 | 7.6 | 10×0.75 | 2 | 11.8 | 27×0.75 | 2 | 17.3 |
| 3×1.0 | 2 | 7.8 | 10×1.0 | 2 | 12.2 | 27×1.0 | 2 | 18.0 |
| 3×1.5 | 2 | 8.9 | 10×1.5 | 2 | 14.8 | 27×1.5 | 2 | 21.4 |
| 3×2.5 | 2 | 10.2 | 10×2.5 | 2 | 17.2 | 27×2.5 | 2 | 25.1 |
| 3×4 | 2 | 11.2 | 10×4 | 2 | 19.2 | 30×0.75 | 2 | 17.9 |
| 3×6 | 2 | 12.3 | 10×6 | 2 | 21.6 | 30×1.0 | 2 | 18.6 |
| 3×10 | 2 | 15.7 | 10×10 | 2 | 26.8 | 30×1.5 | 2 | 22.2 |
| 4×0.75 | 2 | 8.2 | 12×0.75 | 2 | 12.2 | 30×2.5 | 2 | 26.0 |
| 4×1.0 | 2 | 8.4 | 12×1.0 | 2 | 12.6 | 37×0.75 | 2 | 19.3 |
| 4×1.5 | 2 | 9.6 | 12×1.5 | 2 | 15.3 | 37×1.0 | 2 | 20.4 |
| 4×2.5 | 2 | 11.1 | 12×2.5 | 2 | 17.8 | 37×1.5 | 2 | 23.9 |
| 4×4 | 2 | 12.3 | 12×4 | 2 | 19.8 | 37×2.5 | 2 | 28.1 |
| 4×6 | 2 | 14.1 | 12×6 | 2 | 22.3 | 44×0.75 | 2 | 22.0 |
| 4×10 | 2 | 17.2 | 14×0.75 | 2 | 12.7 | 44×1.0 | 2 | 22.8 |
| 5×0.75 | 2 | 8.8 | 14×1.0 | 2 | 13.8 | 44×1.5 | 2 | 26.8 |
| 5×1.0 | 2 | 9.1 | 14×1.5 | 2 | 16.0 | 44×2.5 | 2 | 32.2 |
| 5×1.5 | 2 | 10.4 | 14×2.5 | 2 | 18.6 | 48×0.75 | 2 | 22.3 |
| 5×2.5 | 2 | 12.1 | 14×4 | 2 | 21.2 | 48×1.0 | 2 | 23.2 |
| 5×4 | 2 | 14.0 | 14×6 | 2 | 23.4 | 48×1.5 | 2 | 27.2 |
| 5×6 | 2 | 15.4 | 16×0.75 | 2 | 14.0 | 48×2.5 | 2 | 32.7 |
| 5×10 | 2 | 18.9 | 16×1.0 | 2 | 14.5 | 52×0.75 | 2 | 22.9 |
| 7×0.75 | 2 | 9.5 | 16×1.5 | 2 | 16.8 | 52×1.0 | 2 | 23.8 |
| 7×1.0 | 2 | 9.8 | 16×2.5 | 2 | 20.1 | 52×1.5 | 2 | 28.0 |
| 7×1.5 | 2 | 11.3 | 16×4 | 2 | 22.4 | 52×2.5 | 2 | 33.6 |
| 7×2.5 | 2 | 13.7 | 16×6 | 2 | 24.8 | 61×0.75 | 2 | 24.3 |
| 7×4 | 2 | 15.2 | 19×0.75 | 2 | 14.7 | 61×1.0 | 2 | 25.2 |
| 7×6 | 2 | 16.7 | 19×1.0 | 2 | 15.2 | 61×1.5 | 2 | 30.3 |
| 7×10 | 2 | 21.0 | 19×1.5 | 2 | 17.7 | 61×2.5 | 2 | 36.1 |

## KVVP型铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and copper wire braided shielding (KVVP)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 1 | 7.8 | 8×2.5 | 1 | 15.9 | 24×0.75 | 1 | 17.4 |
| 2×1.0 | 1 | 8.0 | 8×4 | 1 | 17.3 | 24×1.0 | 1 | 18.0 |
| 2×1.5 | 1 | 9.0 | 8×6 | 1 | 19.0 | 24×1.5 | 1 | 21.4 |
| 2×2.5 | 1 | 10.2 | 10×0.75 | 1 | 12.2 | 24×2.5 | 1 | 25.3 |
| 2×4 | 1 | 11.0 | 10×1.0 | 1 | 13.2 | 27×0.75 | 1 | 17.7 |
| 2×6 | 1 | 12.0 | 10×1.5 | 1 | 15.4 | 27×1.0 | 1 | 18.3 |
| 3×0.75 | 1 | 8.1 | 10×2.5 | 1 | 17.8 | 27×1.5 | 1 | 21.8 |
| 3×1.0 | 1 | 8.3 | 10×4 | 1 | 19.8 | 27×2.5 | 1 | 25.8 |
| 3×1.5 | 1 | 9.4 | 10×6 | 1 | 21.8 | 30×0.75 | 1 | 18.3 |
| 3×2.5 | 1 | 10.7 | 12×0.75 | 1 | 13.1 | 30×1.0 | 1 | 18.9 |
| 3×4 | 1 | 11.6 | 12×1.0 | 1 | 13.5 | 30×1.5 | 1 | 22.5 |
| 3×6 | 1 | 13.2 | 12×1.5 | 1 | 15.8 | 30×2.5 | 1 | 26.6 |
| 4×0.75 | 1 | 8.7 | 12×2.5 | 1 | 18.3 | 37×0.75 | 1 | 20.0 |
| 4×1.0 | 1 | 8.9 | 12×4 | 1 | 20.4 | 37×1.0 | 1 | 20.7 |
| 4×1.5 | 1 | 10.1 | 12×6 | 1 | 22.5 | 37×1.5 | 1 | 24.2 |
| 4×2.5 | 1 | 11.6 | 14×0.75 | 1 | 13.7 | 37×2.5 | 1 | 29.3 |
| 4×4 | 1 | 13.1 | 14×1.0 | 1 | 14.3 | 44×0.75 | 1 | 22.2 |
| 4×6 | 1 | 14.6 | 14×1.5 | 1 | 16.5 | 44×1.0 | 1 | 23.0 |
| 5×0.75 | 1 | 9.3 | 14×2.5 | 1 | 19.6 | 44×1.5 | 1 | 27.3 |
| 5×1.0 | 1 | 9.6 | 14×4 | 1 | 21.4 | 44×2.5 | 1 | 32.7 |
| 5×1.5 | 1 | 10.9 | 14×6 | 1 | 23.6 | 48×0.75 | 1 | 22.5 |
| 5×2.5 | 1 | 13.1 | 16×0.75 | 1 | 14.5 | 48×1.0 | 1 | 23.3 |
| 5×4 | 1 | 14.5 | 16×1.0 | 1 | 15.0 | 48×1.5 | 1 | 27.7 |
| 5×6 | 1 | 15.8 | 16×1.5 | 1 | 17.4 | 48×2.5 | 1 | 33.2 |
| 7×0.75 | 1 | 10.0 | 16×2.5 | 1 | 20.6 | 52×0.75 | 1 | 23.1 |
| 7×1.0 | 1 | 10.3 | 16×4 | 1 | 22.5 | 52×1.0 | 1 | 23.9 |
| 7×1.5 | 1 | 11.8 | 16×6 | 1 | 25.1 | 52×1.5 | 1 | 29.0 |
| 7×2.5 | 1 | 14.4 | 19×0.75 | 1 | 15.2 | 52×2.5 | 1 | 34.0 |
| 7×4 | 1 | 15.6 | 19×1.0 | 1 | 15.7 | 61×0.75 | 1 | 24.4 |
| 7×6 | 1 | 17.1 | 19×1.5 | 1 | 18.2 | 61×1.0 | 1 | 25.6 |
| 8×0.75 | 1 | 10.9 | 19×2.5 | 1 | 21.6 | 61×1.5 | 1 | 30.7 |
| 8×1.0 | 1 | 11.3 | 19×4 | 1 | 23.6 | 61×2.5 | 1 | 36.7 |
| 8×1.5 | 1 | 13.6 | 19×6 | 1 | 26.4 | / | / | / |

## KVVP型铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and copper wire braided shielding (KVVP)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.75 | 2 | 8.0 | 7×10 | 2 | 22.0 | 19×2.5 | 2 | 22.1 |
| 2×1.0 | 2 | 8.2 | 8×0.75 | 2 | 11.3 | 24×0.75 | 2 | 18.0 |
| 2×1.5 | 2 | 9.2 | 8×1.0 | 2 | 11.6 | 24×1.0 | 2 | 18.6 |
| 2×2.5 | 2 | 10.4 | 8×1.5 | 2 | 14.2 | 24×1.5 | 2 | 22.0 |
| 2×4 | 2 | 11.4 | 8×2.5 | 2 | 16.3 | 24×2.5 | 2 | 25.9 |
| 2×6 | 2 | 12.4 | 8×4 | 2 | 18.0 | 27×0.75 | 2 | 18.3 |
| 2×10 | 2 | 15.8 | 8×6 | 2 | 20.1 | 27×1.0 | 2 | 19.0 |
| 3×0.75 | 2 | 8.3 | 8×10 | 2 | 24.9 | 27×1.5 | 2 | 22.4 |
| 3×1.0 | 2 | 8.5 | 10×0.75 | 2 | 13.2 | 27×2.5 | 2 | 26.4 |
| 3×1.5 | 2 | 9.6 | 10×1.0 | 2 | 13.6 | 30×0.75 | 2 | 18.9 |
| 3×2.5 | 2 | 10.9 | 10×1.5 | 2 | 15.8 | 30×1.0 | 2 | 20.0 |
| 3×4 | 2 | 12.0 | 10×2.5 | 2 | 18.2 | 30×1.5 | 2 | 23.2 |
| 3×6 | 2 | 13.7 | 10×4 | 2 | 20.6 | 30×2.5 | 2 | 27.3 |
| 3×10 | 2 | 16.7 | 10×6 | 2 | 22.6 | 37×0.75 | 2 | 20.7 |
| 4×0.75 | 2 | 8.9 | 10×10 | 2 | 28.1 | 37×1.0 | 2 | 21.4 |
| 4×1.0 | 2 | 9.2 | 12×0.75 | 2 | 13.5 | 37×1.5 | 2 | 25.2 |
| 4×1.5 | 2 | 10.4 | 12×1.0 | 2 | 14.2 | 37×2.5 | 2 | 30.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 2 | 11.8 | 12×1.5 | 2 | 16.3 | 44×0.75 | 2 | 23.0 |
| 4×4 | 2 | 13.6 | 12×2.5 | 2 | 18.8 | 44×1.0 | 2 | 23.8 |
| 4×6 | 2 | 15.1 | 12×4 | 2 | 21.2 | 44×1.5 | 2 | 28.1 |
| 4×10 | 2 | 18.2 | 12×6 | 2 | 23.3 | 44×2.5 | 2 | 33.5 |
| 5×0.75 | 2 | 9.6 | 14×0.75 | 2 | 14.3 | 48×0.75 | 2 | 23.3 |
| 5×1.0 | 2 | 9.8 | 14×1.0 | 2 | 14.8 | 48×1.0 | 2 | 24.2 |
| 5×1.5 | 2 | 11.2 | 14×1.5 | 2 | 17.0 | 48×1.5 | 2 | 29.1 |
| 5×2.5 | 2 | 13.4 | 14×2.5 | 2 | 20.0 | 48×2.5 | 2 | 34.0 |
| 5×4 | 2 | 15.0 | 14×4 | 2 | 22.2 | 52×0.75 | 2 | 23.9 |
| 5×6 | 2 | 16.4 | 14×6 | 2 | 24.7 | 52×1.0 | 2 | 25.0 |
| 5×10 | 2 | 20.3 | 16×0.75 | 2 | 15.0 | 52×1.5 | 2 | 29.8 |
| 7×0.75 | 2 | 10.3 | 16×1.0 | 2 | 15.5 | 52×2.5 | 2 | 35.3 |
| 7×1.0 | 2 | 10.6 | 16×1.5 | 2 | 17.8 | 61×0.75 | 2 | 25.3 |
| 7×1.5 | 2 | 12.1 | 16×2.5 | 2 | 21.1 | 61×1.0 | 2 | 26.5 |
| 7×2.5 | 2 | 14.7 | 19×0.75 | 2 | 15.7 | 61×1.5 | 2 | 31.6 |
| 7×4 | 2 | 16.2 | 19×1.0 | 2 | 16.2 | 61×2.5 | 2 | 37.6 |
| 7×6 | 2 | 17.7 | 19×1.5 | 2 | 18.7 | / | / | / |

**KVVP2(P3,P4)型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆**
**Control Cable with Cu conductor,PVC insulation and PVC sheath and Copper tape(Aluminium polyester tape ,Copper polyester tape )shielding KVVP2(P3,P4)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×0.75 | 1 | 8.3 | 10×6 | 1 | 21.2 | 27×0.75 | 1 | 17.1 |
| 4×1.0 | 1 | 8.6 | 12×0.75 | 1 | 12.8 | 27×1.0 | 1 | 17.7 |
| 4×1.5 | 1 | 9.8 | 12×1.0 | 1 | 13.2 | 27×1.5 | 1 | 21.2 |
| 4×2.5 | 1 | 11.2 | 12×1.5 | 1 | 15.2 | 27×2.5 | 1 | 24.9 |
| 4×4 | 1 | 12.2 | 12×2.5 | 1 | 17.7 | 30×0.75 | 1 | 17.7 |
| 4×6 | 1 | 14.0 | 12×4 | 1 | 19.4 | 30×1.0 | 1 | 18.3 |
| 5×0.75 | 1 | 8.9 | 12×6 | 1 | 21.9 | 30×1.5 | 1 | 21.9 |
| 5×1.0 | 1 | 9.2 | 14×0.75 | 1 | 13.3 | 30×2.5 | 1 | 25.8 |
| 5×1.5 | 1 | 10.6 | 14×1.0 | 1 | 13.7 | 37×0.75 | 1 | 19.0 |
| 5×2.5 | 1 | 12.2 | 14×1.5 | 1 | 15.9 | 37×1.0 | 1 | 20.1 |
| 5×4 | 1 | 13.9 | 14×2.5 | 1 | 18.6 | 37×1.5 | 1 | 23.6 |
| 5×6 | 1 | 15.2 | 14×4 | 1 | 20.8 | 37×2.5 | 1 | 27.8 |
| 7×0.75 | 1 | 9.6 | 14×6 | 1 | 23.0 | 44×0.75 | 1 | 21.6 |
| 7×1.0 | 1 | 9.9 | 16×0.75 | 1 | 13.9 | 44×1.0 | 1 | 22.4 |
| 7×1.5 | 1 | 11.4 | 16×1.0 | 1 | 14.4 | 44×1.5 | 1 | 26.4 |
| 7×2.5 | 1 | 13.2 | 16×1.5 | 1 | 16.8 | 44×2.5 | 1 | 31.8 |
| 7×4 | 1 | 15.0 | 16×2.5 | 1 | 20.0 | 48×0.75 | 1 | 21.9 |
| 7×6 | 1 | 16.5 | 16×4 | 1 | 21.9 | 48×1.0 | 1 | 22.7 |
| 8×0.75 | 1 | 10.6 | 16×6 | 1 | 24.2 | 48×1.5 | 1 | 26.8 |
| 8×1.0 | 1 | 10.9 | 19×0.75 | 1 | 14.6 | 48×2.5 | 1 | 32.3 |
| 8×1.5 | 1 | 13.3 | 19×1.0 | 1 | 15.1 | 52×0.75 | 1 | 22.5 |
| 8×2.5 | 1 | 15.3 | 19×1.5 | 1 | 17.6 | 52×1.0 | 1 | 23.3 |
| 8×4 | 1 | 16.7 | 19×2.5 | 1 | 21.0 | 52×1.5 | 1 | 27.5 |
| 8×6 | 1 | 18.4 | 19×4 | 1 | 23.0 | 52×2.5 | 1 | 33.2 |
| 10×0.75 | 1 | 11.8 | 19×6 | 1 | 25.5 | 61×0.75 | 1 | 23.8 |
| 10×1.0 | 1 | 12.8 | 24×0.75 | 1 | 16.8 | 61×1.0 | 1 | 24.7 |
| 10×1.5 | 1 | 14.8 | 24×1.0 | 1 | 17.4 | 61×1.5 | 1 | 29.2 |
| 10×2.5 | 1 | 17.2 | 24×1.5 | 1 | 20.8 | 61×2.5 | 1 | 35.2 |
| 10×4 | 1 | 18.8 | 24×2.5 | 1 | 24.4 | / | / | / |

## KVVP2(P3,P4)型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and Copper tape(Aluminium polyester tape ,Copper polyester tape )shielding KVVP2(P3,P4)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×0.75 | 2 | 8.6 | 10×2.5 | 2 | 17.6 | 24×2.5 | 2 | 25.0 |
| 4×1.0 | 2 | 8.8 | 10×4 | 2 | 19.6 | 27×0.75 | 2 | 17.7 |
| 4×1.5 | 2 | 10.0 | 10×6 | 2 | 22.0 | 27×1.0 | 2 | 18.4 |
| 4×2.5 | 2 | 11.5 | 10×10 | 2 | 27.2 | 27×1.5 | 2 | 21.8 |
| 4×4 | 2 | 12.7 | 12×0.75 | 2 | 13.2 | 27×2.5 | 2 | 25.5 |
| 4×6 | 2 | 14.5 | 12×1.0 | 2 | 13.6 | 30×0.75 | 2 | 18.3 |
| 4×10 | 2 | 17.6 | 12×1.5 | 2 | 15.7 | 30×1.0 | 2 | 19.0 |
| 5×0.75 | 2 | 9.2 | 12×2.5 | 2 | 18.2 | 30×1.5 | 2 | 22.6 |
| 5×1.0 | 2 | 9.5 | 12×4 | 2 | 20.6 | 30×2.5 | 2 | 26.4 |
| 5×1.5 | 2 | 10.8 | 12×6 | 2 | 22.7 | 37×0.75 | 2 | 20.1 |
| 5×2.5 | 2 | 12.5 | 12×10 | 2 | 28.1 | 37×1.0 | 2 | 20.8 |
| 5×4 | 2 | 14.4 | 14×0.75 | 2 | 13.7 | 37×1.5 | 2 | 24.3 |
| 5×6 | 2 | 15.8 | 14×1.0 | 2 | 14.2 | 37×2.5 | 2 | 28.5 |
| 5×10 | 2 | 19.3 | 14×1.5 | 2 | 16.4 | 44×0.75 | 2 | 22.4 |
| 7×0.75 | 2 | 9.9 | 14×2.5 | 2 | 19.0 | 44×1.0 | 2 | 23.2 |
| 7×1.0 | 2 | 10.2 | 14×4 | 2 | 21.6 | 44×1.5 | 2 | 27.2 |
| 7×1.5 | 2 | 11.7 | 14×6 | 2 | 23.8 | 44×2.5 | 2 | 32.6 |
| 7×2.5 | 2 | 14.1 | 14×10 | 2 | 29.6 | 48×0.75 | 2 | 22.7 |
| 7×4 | 2 | 15.6 | 16×0.75 | 2 | 14.4 | 48×1.0 | 2 | 23.6 |
| 7×6 | 2 | 17.1 | 16×1.0 | 2 | 14.9 | 48×1.5 | 2 | 27.6 |
| 7×10 | 2 | 21.0 | 16×1.5 | 2 | 17.2 | 48×2.5 | 2 | 33.1 |
| 8×0.75 | 2 | 10.9 | 16×2.5 | 2 | 20.5 | 52×0.75 | 2 | 23.3 |
| 8×1.0 | 2 | 11.3 | 19×0.75 | 2 | 15.1 | 52×1.0 | 2 | 24.2 |
| 8×1.5 | 2 | 13.6 | 19×1.0 | 2 | 15.6 | 52×1.5 | 2 | 28.4 |
| 8×2.5 | 2 | 15.7 | 19×1.5 | 2 | 18.1 | 52×2.5 | 2 | 34.0 |
| 8×4 | 2 | 17.4 | 19×2.5 | 2 | 21.5 | 61×0.75 | 2 | 24.7 |
| 8×6 | 2 | 19.1 | 19×4 | 2 | 24.0 | 61×1.0 | 2 | 25.6 |
| 8×10 | 2 | 24.0 | 19×6 | 2 | 26.5 | 61×1.5 | 2 | 30.1 |
| 10×0.75 | 2 | 12.8 | 24×0.75 | 2 | 17.4 | 61×2.5 | 2 | 36.5 |
| 10×1.0 | 2 | 13.2 | 24×1.0 | 2 | 18.0 | / | / | / |
| 10×1.5 | 2 | 15.2 | 24×1.5 | 2 | 21.4 | / | / | / |

## KVV22型铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and steel tape armored (KVV22)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 1 | 12.8 | 12×1.0 | 1 | 15.6 | 27×1.5 | 1 | 23.6 |
| 4×2.5 | 1 | 14.2 | 12×1.5 | 1 | 17.6 | 27×2.5 | 1 | 27.7 |
| 4×4 | 1 | 15.2 | 12×2.5 | 1 | 20.5 | 30×0.75 | 1 | 20.5 |
| 4×6 | 1 | 16.4 | 12×4 | 1 | 22.2 | 30×1.0 | 1 | 21.1 |
| 5×1.5 | 1 | 13.6 | 12×6 | 1 | 24.3 | 30×1.5 | 1 | 24.3 |
| 5×2.5 | 1 | 15.2 | 14×0.75 | 1 | 15.7 | 30×2.5 | 1 | 28.6 |
| 5×4 | 1 | 16.3 | 14×1.0 | 1 | 16.1 | 37×0.75 | 1 | 21.8 |
| 5×6 | 1 | 17.6 | 14×1.5 | 1 | 18.3 | 37×1.0 | 1 | 22.5 |
| 7×0.75 | 1 | 12.6 | 14×2.5 | 1 | 21.4 | 37×1.5 | 1 | 26.0 |
| 7×1.0 | 1 | 12.9 | 14×4 | 1 | 23.2 | 37×2.5 | 1 | 31.2 |
| 7×1.5 | 1 | 14.4 | 14×6 | 1 | 25.4 | 44×0.75 | 1 | 24.0 |
| 7×2.5 | 1 | 16.2 | 16×0.75 | 1 | 16.3 | 44×1.0 | 1 | 24.8 |
| 7×4 | 1 | 17.4 | 16×1.0 | 1 | 16.8 | 44×1.5 | 1 | 29.2 |
| 7×6 | 1 | 18.9 | 16×1.5 | 1 | 19.6 | 44×2.5 | 1 | 34.6 |
| 8×0.75 | 1 | 13.6 | 16×2.5 | 1 | 22.4 | 48×0.75 | 1 | 24.3 |
| 8×1.0 | 1 | 13.9 | 19×0.75 | 1 | 17.0 | 48×1.0 | 1 | 25.1 |
| 8×1.5 | 1 | 15.7 | 19×1.0 | 1 | 17.5 | 48×1.5 | 1 | 30.2 |
| 8×2.5 | 1 | 17.7 | 19×1.5 | 1 | 20.4 | 48×2.5 | 1 | 35.5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8×4 | 1 | 19.5 | 19×2.5 | 1 | 23.4 | 52×0.75 | 1 | 24.9 |
| 8×6 | 1 | 21.2 | 19×4 | 1 | 25.4 | 52×1.0 | 1 | 25.7 |
| 10×0.75 | 1 | 14.8 | 19×6 | 1 | 28.3 | 52×1.5 | 1 | 30.9 |
| 10×1.0 | 1 | 15.2 | 24×0.75 | 1 | 19.6 | 52×2.5 | 1 | 36.4 |
| 10×1.5 | 1 | 17.2 | 24×1.0 | 1 | 20.2 | 61×0.75 | 1 | 26.2 |
| 10×2.5 | 1 | 20.0 | 24×1.5 | 1 | 23.2 | 61×1.0 | 1 | 27.5 |
| 10×4 | 1 | 21.6 | 24×2.5 | 1 | 27.2 | 61×1.5 | 1 | 32.6 |
| 10×6 | 1 | 23.6 | 27×0.75 | 1 | 19.9 | 61×2.5 | 1 | 39.6 |
| 12×0.75 | 1 | 15.2 | 27×1.0 | 1 | 20.5 | / | / | / |

## KVV22型铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and steel tape armored (KVV22)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 2 | 13.0 | 10×6 | 2 | 24.4 | 24×2.5 | 2 | 27.8 |
| 4×2.5 | 2 | 14.5 | 10×10 | 2 | 30.6 | 27×0.75 | 2 | 20.5 |
| 4×4 | 2 | 15.7 | 12×0.75 | 2 | 15.6 | 27×1.0 | 2 | 21.2 |
| 4×6 | 2 | 16.9 | 12×1.0 | 2 | 16.0 | 27×1.5 | 2 | 24.2 |
| 4×10 | 2 | 20.4 | 12×1.5 | 2 | 18.1 | 27×2.5 | 2 | 28.3 |
| 5×1.5 | 2 | 13.8 | 12×2.5 | 2 | 21.0 | 30×0.75 | 2 | 21.1 |
| 5×2.5 | 2 | 15.5 | 12×4 | 2 | 23.0 | 30×1.0 | 2 | 21.8 |
| 5×4 | 2 | 16.8 | 12×6 | 2 | 25.1 | 30×1.5 | 2 | 25.0 |
| 5×6 | 2 | 18.2 | 14×0.75 | 2 | 16.1 | 30×2.5 | 2 | 29.2 |
| 5×10 | 2 | 22.1 | 14×1.0 | 2 | 16.6 | 37×0.75 | 2 | 22.5 |
| 7×0.75 | 2 | 12.9 | 14×1.5 | 2 | 18.8 | 37×1.0 | 2 | 23.2 |
| 7×1.0 | 2 | 13.2 | 14×2.5 | 2 | 21.8 | 37×1.5 | 2 | 27.1 |
| 7×1.5 | 2 | 14.7 | 14×4 | 2 | 24.0 | 37×2.5 | 2 | 31.9 |
| 7×2.5 | 2 | 16.5 | 14×6 | 2 | 26.2 | 44×0.75 | 2 | 24.8 |
| 7×4 | 2 | 18.0 | 16×0.75 | 2 | 16.8 | 44×1.0 | 2 | 25.6 |
| 7×6 | 2 | 19.9 | 16×1.0 | 2 | 17.3 | 44×1.5 | 2 | 30.0 |
| 7×10 | 2 | 23.8 | 16×1.5 | 2 | 20.0 | 44×2.5 | 2 | 35.4 |
| 8×0.75 | 2 | 13.9 | 16×2.5 | 2 | 22.9 | 48×0.75 | 2 | 25.1 |
| 8×1.0 | 2 | 14.3 | 16×4 | 2 | 25.2 | 48×1.0 | 2 | 26.0 |
| 8×1.5 | 2 | 16.0 | 16×6 | 2 | 28.0 | 48×1.5 | 2 | 31.0 |
| 8×2.5 | 2 | 18.1 | 19×0.75 | 2 | 17.5 | 48×2.5 | 2 | 36.3 |
| 8×4 | 2 | 20.2 | 19×1.0 | 2 | 18.0 | 52×0.75 | 2 | 25.7 |
| 8×6 | 2 | 21.9 | 19×1.5 | 2 | 20.5 | 52×1.0 | 2 | 27.0 |
| 8×10 | 2 | 26.8 | 19×2.5 | 2 | 23.9 | 52×1.5 | 2 | 31.8 |
| 10×0.75 | 2 | 15.2 | 19×4 | 2 | 26.8 | 52×2.5 | 2 | 38.4 |
| 10×1.0 | 2 | 15.6 | 19×6 | 2 | 29.9 | 61×0.75 | 2 | 27.5 |
| 10×1.5 | 2 | 17.6 | 24×0.75 | 2 | 20.2 | 61×1.0 | 2 | 28.4 |
| 10×2.5 | 2 | 20.4 | 24×1.0 | 2 | 20.8 | 61×1.5 | 2 | 33.5 |
| 10×4 | 2 | 22.4 | 24×1.5 | 2 | 23.8 | 61×2.5 | 2 | 40.5 |

## KVVP2（P3,P4）-22型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带（铝塑复合带，铜塑复合带）屏蔽钢带铠装控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath ,Copper tape(Aluminium polyester tape , Copper polyester tape )shielding and steel tape armored KVVP2(P3,P4)-22

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 1 | 12.0 | 12×0.75 | 1 | 15.6 | 27×1.5 | 1 | 22.8 |
| 4×2.5 | 1 | 12.7 | 12×1.0 | 1 | 16.0 | 27×2.5 | 1 | 26.9 |
| 4×4 | 1 | 14.1 | 12×1.5 | 1 | 17.2 | 30×0.75 | 1 | 20.9 |
| 4×6 | 1 | 15.1 | 12×2.5 | 1 | 20.1 | 30×1.0 | 1 | 21.5 |
| 4×10 | 1 | 16.3 | 12×4 | 1 | 21.8 | 30×1.5 | 1 | 23.5 |
| 5×1.5 | 1 | 13.4 | 12×6 | 1 | 23.9 | 30×2.5 | 1 | 27.7 |
| 5×2.5 | 1 | 15.0 | 14×0.75 | 1 | 16.1 | 37×0.75 | 1 | 22.2 |
| 5×4 | 1 | 16.1 | 14×1.0 | 1 | 16.5 | 37×1.0 | 1 | 22.9 |
| 5×6 | 1 | 17.5 | 14×1.5 | 1 | 17.9 | 37×1.5 | 1 | 25.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 7×0.75 | 1 | 13.0 | 14×2.5 | 1 | 20.9 | 37×2.5 | 1 | 30.2 |
| 7×1.0 | 1 | 13.3 | 14×4 | 1 | 22.7 | 44×0.75 | 1 | 24.4 |
| 7×1.5 | 1 | 14.2 | 14×6 | 1 | 24.9 | 44×1.0 | 1 | 25.2 |
| 7×2.5 | 1 | 16.0 | 16×0.75 | 1 | 16.7 | 44×1.5 | 1 | 28.0 |
| 7×4 | 1 | 17.2 | 16×1.0 | 1 | 17.2 | 44×2.5 | 1 | 33.4 |
| 7×6 | 1 | 18.7 | 16×1.5 | 1 | 18.6 | 48×0.75 | 1 | 24.7 |
| 8×0.75 | 1 | 14.0 | 16×2.5 | 1 | 21.8 | 48×1.0 | 1 | 25.2 |
| 8×1.0 | 1 | 14.3 | 19×0.75 | 1 | 17.4 | 48×1.5 | 1 | 28.0 |
| 8×1.5 | 1 | 15.4 | 19×1.0 | 1 | 17.9 | 48×2.5 | 1 | 33.4 |
| 8×2.5 | 1 | 17.4 | 19×1.5 | 1 | 19.8 | 52×0.75 | 1 | 25.3 |
| 8×4 | 1 | 18.8 | 19×2.5 | 1 | 22.8 | 52×1.0 | 1 | 26.1 |
| 8×6 | 1 | 20.9 | 19×4 | 1 | 24.8 | 52×1.5 | 1 | 29.7 |
| 10×0.75 | 1 | 15.2 | 19×6 | 1 | 27.3 | 52×2.5 | 1 | 35.1 |
| 10×1.0 | 1 | 15.6 | 24×0.75 | 1 | 20.0 | 61×0.75 | 1 | 27.0 |
| 10×1.5 | 1 | 16.8 | 24×1.0 | 1 | 20.6 | 61×1.0 | 1 | 27.9 |
| 10×2.5 | 1 | 19.6 | 24×1.5 | 1 | 22.4 | 61×1.5 | 1 | 31.2 |
| 10×4 | 1 | 21.2 | 24×2.5 | 1 | 26.0 | 61×2.5 | 1 | 38.2 |
| 10×6 | 1 | 23.2 | 27×0.75 | 1 | 20.3 | / | / | / |
| 10×10 | 1 | 26.8 | 27×1.0 | 1 | 20.9 | / | / | / |

**KVVP2-22型铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽钢带铠装控制电缆**
**Control Cable with Cu conductor,PVC insulation and PVC sheath ,Copper tape shielding and steel tape armored (KVVP2-22)**

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×1.5 | 2 | 12.9 | 10×6 | 2 | 24.0 | 27×1.0 | 2 | 21.6 |
| 4×2.5 | 2 | 14.4 | 10×10 | 2 | 28.0 | 27×1.5 | 2 | 23.4 |
| 4×4 | 2 | 15.6 | 12×0.75 | 2 | 16.0 | 27×2.5 | 2 | 27.5 |
| 4×6 | 2 | 16.8 | 12×1.0 | 2 | 16.4 | 30×0.75 | 2 | 21.5 |
| 4×10 | 2 | 19.0 | 12×1.5 | 2 | 17.6 | 30×1.0 | 2 | 22.2 |
| 5×1.5 | 2 | 13.7 | 12×2.5 | 2 | 20.5 | 30×1.5 | 2 | 24.1 |
| 5×2.5 | 2 | 15.3 | 12×4 | 2 | 22.6 | 30×2.5 | 2 | 28.4 |
| 5×4 | 2 | 16.7 | 12×6 | 2 | 24.7 | 37×0.75 | 2 | 22.9 |
| 5×6 | 2 | 18.0 | 14×0.75 | 2 | 16.5 | 37×1.0 | 2 | 23.6 |
| 5×10 | 2 | 20.8 | 14×1.0 | 2 | 17.0 | 37×1.5 | 2 | 25.7 |
| 7×0.75 | 2 | 13.3 | 14×1.5 | 2 | 18.3 | 37×2.5 | 2 | 30.9 |
| 7×1.0 | 2 | 13.6 | 14×2.5 | 2 | 21.4 | 44×0.75 | 2 | 25.2 |
| 7×1.5 | 2 | 14.5 | 14×4 | 2 | 23.6 | 44×1.0 | 2 | 26.0 |
| 7×2.5 | 2 | 16.3 | 14×6 | 2 | 25.8 | 44×1.5 | 2 | 29.4 |
| 7×4 | 2 | 17.8 | 16×0.75 | 2 | 17.2 | 44×2.5 | 2 | 34.6 |
| 7×6 | 2 | 19.7 | 16×1.0 | 2 | 17.7 | 48×0.75 | 2 | 25.5 |
| 7×10 | 2 | 22.4 | 16×1.5 | 2 | 19.5 | 48×1.0 | 2 | 26.0 |
| 8×0.75 | 2 | 14.3 | 16×2.5 | 2 | 22.3 | 48×1.5 | 2 | 29.4 |
| 8×1.0 | 2 | 14.7 | 19×0.75 | 2 | 17.9 | 48×2.5 | 2 | 34.6 |
| 8×1.5 | 2 | 15.7 | 19×1.0 | 2 | 18.4 | 52×0.75 | 2 | 26.1 |
| 8×2.5 | 2 | 17.8 | 19×1.5 | 2 | 20.3 | 52×1.0 | 2 | 27.4 |
| 8×4 | 2 | 19.9 | 19×2.5 | 2 | 23.3 | 52×1.5 | 2 | 30.5 |
| 8×6 | 2 | 21.6 | 19×4 | 2 | 25.8 | 52×2.5 | 2 | 37.2 |
| 8×10 | 2 | 24.7 | 19×6 | 2 | 28.3 | 61×0.75 | 2 | 27.9 |
| 10×0.75 | 2 | 15.6 | 24×0.75 | 2 | 20.6 | 61×1.0 | 2 | 29.4 |
| 10×1.0 | 2 | 16.0 | 24×1.0 | 2 | 21.2 | 61×1.5 | 2 | 32.1 |
| 10×1.5 | 2 | 17.2 | 24×1.5 | 2 | 23.0 | 61×2.5 | 2 | 39.1 |
| 10×2.5 | 2 | 20.0 | 24×2.5 | 2 | 27.0 | / | / | / |
| 10×4 | 2 | 22.0 | 27×0.75 | 2 | 20.9 | / | / | / |

## KVV32型铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and steel wire armored (KVV32)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 1 | 14.5 | 14×1.5 | 1 | 19.6 | 30×1.5 | 1 | 25.5 |
| 4×4 | 1 | 16.4 | 14×2.5 | 1 | 22.9 | 30×2.5 | 1 | 29.7 |
| 4×6 | 1 | 17.6 | 14×4 | 1 | 24.7 | 37×0.75 | 1 | 24.2 |
| 5×2.5 | 1 | 16.3 | 14×6 | 1 | 26.9 | 37×1.0 | 1 | 24.9 |
| 5×4 | 1 | 17.4 | 16×1.5 | 1 | 20.3 | 37×1.5 | 1 | 27.0 |
| 5×6 | 1 | 18.8 | 16×2.5 | 1 | 23.8 | 37×2.5 | 1 | 32.2 |
| 7×1.5 | 1 | 14.6 | 19×0.75 | 1 | 18.7 | 44×0.75 | 1 | 26.4 |
| 7×2.5 | 1 | 17.3 | 19×1.0 | 1 | 19.6 | 44×1.0 | 1 | 27.2 |
| 7×4 | 1 | 18.5 | 19×1.5 | 1 | 21.8 | 44×1.5 | 1 | 30.6 |
| 7×6 | 1 | 20.4 | 19×2.5 | 1 | 24.8 | 44×2.5 | 1 | 36.2 |
| 8×1.5 | 1 | 14.6 | 19×4 | 1 | 26.8 | 48×0.75 | 1 | 26.7 |
| 8×2.5 | 1 | 17.3 | 19×6 | 1 | 29.7 | 48×1.0 | 1 | 27.5 |
| 8×4 | 1 | 18.5 | 24×0.75 | 1 | 22.0 | 48×1.5 | 1 | 31.0 |
| 8×6 | 1 | 20.4 | 24×1.0 | 1 | 22.6 | 48×2.5 | 1 | 37.1 |
| 10×1.5 | 1 | 18.1 | 24×1.5 | 1 | 24.4 | 52×0.75 | 1 | 27.3 |
| 10×2.5 | 1 | 20.9 | 24×2.5 | 1 | 28.0 | 52×1.0 | 1 | 28.1 |
| 10×4 | 1 | 23.2 | 27×0.75 | 1 | 22.3 | 52×1.5 | 1 | 31.7 |
| 10×6 | 1 | 25.2 | 27×1.0 | 1 | 22.5 | 52×2.5 | 1 | 37.5 |
| 12×1.5 | 1 | 18.5 | 27×1.5 | 1 | 24.8 | 61×0.75 | 1 | 32.4 |
| 12×2.5 | 1 | 22.1 | 27×2.5 | 1 | 29.1 | 61×1.0 | 1 | 33.7 |
| 12×4 | 1 | 23.8 | 30×0.75 | 1 | 22.9 | 61×1.5 | 1 | 38.4 |
| 12×6 | 1 | 25.9 | 30×1.0 | 1 | 23.5 | 61×2.5 | 1 | 43.8 |

## KVV32型铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆
## Control Cable with Cu conductor,PVC insulation and PVC sheath and steel wire armored (KVV32)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 4×2.5 | 2 | 15.7 | 12×2.5 | 2 | 22.5 | 30×1.0 | 2 | 24.2 |
| 4×4 | 2 | 16.9 | 12×4 | 2 | 24.6 | 30×1.5 | 2 | 26.1 |
| 4×6 | 2 | 18.1 | 12×6 | 2 | 26.7 | 30×2.5 | 2 | 31.0 |
| 4×10 | 2 | 20.7 | 14×1.5 | 2 | 20.0 | 37×0.75 | 2 | 24.9 |
| 5×2.5 | 2 | 16.6 | 14×2.5 | 2 | 23.4 | 37×1.0 | 2 | 25.6 |
| 5×4 | 2 | 18.0 | 14×4 | 2 | 25.6 | 37×1.5 | 2 | 27.7 |
| 5×6 | 2 | 19.7 | 14×6 | 2 | 27.8 | 37×2.5 | 2 | 33.7 |
| 5×10 | 2 | 22.8 | 16×1.5 | 2 | 20.8 | 44×0.75 | 2 | 27.2 |
| 7×1.5 | 2 | 15.8 | 16×2.5 | 2 | 24.3 | 44×1.0 | 2 | 28.0 |
| 7×2.5 | 2 | 17.6 | 19×0.75 | 2 | 19.6 | 44×1.5 | 2 | 31.4 |
| 7×4 | 2 | 19.5 | 19×1.0 | 2 | 20.1 | 44×2.5 | 2 | 37.4 |
| 7×6 | 2 | 21.7 | 19×1.5 | 2 | 22.3 | 48×0.75 | 2 | 27.5 |
| 7×10 | 2 | 24.4 | 19×2.5 | 2 | 25.3 | 48×1.0 | 2 | 28.4 |
| 8×1.5 | 2 | 17.0 | 19×4 | 2 | 27.8 | 48×1.5 | 2 | 31.8 |
| 8×2.5 | 2 | 19.1 | 19×6 | 2 | 31.3 | 48×2.5 | 2 | 37.9 |
| 8×4 | 2 | 21.9 | 24×0.75 | 2 | 22.6 | 52×0.75 | 2 | 28.1 |
| 8×6 | 2 | 23.6 | 24×1.0 | 2 | 23.2 | 52×1.0 | 2 | 30.0 |
| 8×10 | 2 | 26.7 | 24×1.5 | 2 | 25.0 | 52×1.5 | 2 | 33.3 |
| 10×1.5 | 2 | 18.5 | 24×2.5 | 2 | 29.2 | 52×2.5 | 2 | 38.8 |
| 10×2.5 | 2 | 22.0 | 27×0.75 | 2 | 22.9 | 61×0.75 | 2 | 33.7 |
| 10×4 | 2 | 24.0 | 27×1.0 | 2 | 23.6 | 61×1.0 | 2 | 35.0 |
| 10×6 | 2 | 26.0 | 27×1.5 | 2 | 25.4 | 61×1.5 | 2 | 39.3 |
| 10×10 | 2 | 30.6 | 27×2.5 | 2 | 30.1 | 61×2.5 | 2 | 45.3 |
| 12×1.5 | 2 | 18.9 | 30×0.75 | 2 | 23.5 | / | / | / |

## KVVR型铜芯聚氯乙烯绝缘聚氯乙烯护控制软电缆
## Flexible Control Cable with Cu conductor,PVC insulation and PVC sheath (KVVR)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.5 | 5 | 7.0 | 8×1.0 | 5 | 10.9 | 24×0.5 | 5 | 16.4 |
| 2×0.75 | 5 | 7.2 | 8×1.5 | 5 | 12.6 | 24×0.75 | 5 | 17.0 |
| 2×1.0 | 5 | 7.6 | 8×2.5 | 5 | 15.3 | 24×1.0 | 5 | 17.6 |
| 2×1.5 | 5 | 8.4 | 8×4 | 5 | 17.0 | 24×1.5 | 5 | 21.0 |
| 2×2.5 | 5 | 9.8 | 8×6 | 5 | 18.7 | 24×2.5 | 5 | 24.6 |
| 2×4 | 5 | 10.8 | 8×10 | 5 | 23.6 | 27×0.5 | 5 | 16.7 |
| 2×6 | 5 | 11.8 | 10×0.5 | 5 | 11.4 | 27×0.75 | 5 | 17.3 |
| 2×10 | 5 | 15.0 | 10×0.75 | 5 | 11.8 | 27×1.0 | 5 | 18.0 |
| 3×0.5 | 5 | 7.4 | 10×1.0 | 5 | 12.2 | 27×1.5 | 5 | 21.4 |
| 3×0.75 | 5 | 7.6 | 10×1.5 | 5 | 14.8 | 27×2.5 | 5 | 25.1 |
| 3×1.0 | 5 | 8.0 | 10×2.5 | 5 | 17.2 | 30×0.5 | 5 | 17.3 |
| 3×1.5 | 5 | 8.9 | 10×4 | 5 | 19.2 | 30×0.75 | 5 | 17.9 |
| 3×2.5 | 5 | 10.4 | 10×6 | 5 | 21.6 | 30×1.0 | 5 | 18.6 |
| 3×4 | 5 | 11.5 | 10×10 | 5 | 26.8 | 30×1.5 | 5 | 22.2 |
| 3×6 | 5 | 12.5 | 12×0.5 | 5 | 11.8 | 30×2.5 | 5 | 26.0 |
| 3×10 | 5 | 15.9 | 12×0.75 | 5 | 12.2 | 37×0.5 | 5 | 18.6 |
| 4×0.5 | 5 | 7.9 | 12×1.0 | 5 | 12.6 | 37×0.75 | 5 | 19.3 |
| 4×0.75 | 5 | 8.2 | 12×1.5 | 5 | 15.3 | 37×1.0 | 5 | 20.4 |
| 4×1.0 | 5 | 8.7 | 12×2.5 | 5 | 17.8 | 37×1.5 | 5 | 23.9 |
| 4×1.5 | 5 | 9.6 | 12×4 | 5 | 19.8 | 37×2.5 | 5 | 28.1 |
| 4×2.5 | 5 | 11.3 | 12×6 | 5 | 22.3 | 44×0.5 | 5 | 21.2 |
| 4×4 | 5 | 12.5 | 14×0.5 | 5 | 12.3 | 44×0.75 | 5 | 22.0 |
| 4×6 | 5 | 14.3 | 14×0.75 | 5 | 12.7 | 44×1.0 | 5 | 22.8 |
| 4×10 | 5 | 17.5 | 14×1.0 | 5 | 13.8 | 44×1.5 | 5 | 26.8 |
| 5×0.5 | 5 | 8.5 | 14×1.5 | 5 | 16.0 | 44×2.5 | 5 | 32.2 |
| 5×0.75 | 5 | 8.8 | 14×2.5 | 5 | 18.6 | 48×0.5 | 5 | 21.5 |
| 5×1.0 | 5 | 9.4 | 14×4 | 5 | 21.2 | 48×0.75 | 5 | 22.3 |
| 5×1.5 | 5 | 10.4 | 14×6 | 5 | 23.4 | 48×1.0 | 5 | 23.2 |
| 5×2.5 | 5 | 12.3 | 16×0.5 | 5 | 13.5 | 48×1.5 | 5 | 27.2 |
| 5×4 | 5 | 14.3 | 16×0.75 | 5 | 14.0 | 48×2.5 | 5 | 32.7 |
| 5×6 | 5 | 15.6 | 16×1.0 | 5 | 14.5 | 52×0.5 | 5 | 22.1 |
| 5×10 | 5 | 19.1 | 16×1.5 | 5 | 16.8 | 52×0.75 | 5 | 22.9 |
| 7×0.5 | 5 | 9.2 | 16×2.5 | 5 | 20.1 | 52×1.0 | 5 | 23.8 |
| 7×0.75 | 5 | 9.5 | 16×4 | 5 | 22.4 | 52×1.5 | 5 | 28.0 |
| 7×1.0 | 5 | 10.1 | 16×6 | 5 | 24.8 | 52×2.5 | 5 | 33.6 |
| 7×1.5 | 5 | 11.3 | 19×0.5 | 5 | 14.2 | 61×0.5 | 5 | 23.4 |
| 7×2.5 | 5 | 14.0 | 19×0.75 | 5 | 14.7 | 61×0.75 | 5 | 24.3 |
| 7×4 | 5 | 15.5 | 19×1.0 | 5 | 15.2 | 61×1.0 | 5 | 25.2 |
| 7×6 | 5 | 17.0 | 19×1.5 | 5 | 17.7 | 61×1.5 | 5 | 30.3 |
| 7×10 | 5 | 21.3 | 19×2.5 | 5 | 21.1 | 61×2.5 | 5 | 36.1 |
| 8×0.5 | 5 | 10.2 | 19×4 | 5 | 23.6 | / | / | / |
| 8×0.75 | 5 | 10.5 | 19×6 | 5 | 26.1 | / | / | / |

## KVVRP型铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝编织屏蔽控制软电缆
## Flexible Control Cable with Cu conductor,PVC insulation， PVC sheath and Copper braided shield(KVVRP)

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter | 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor category | 外径 mm Outer diameter |
|---|---|---|---|---|---|---|---|---|
| 2×0.5 | 5 | 7.8 | 8×1.0 | 5 | 12.0 | 24×0.5 | 5 | 17.4 |
| 2×0.75 | 5 | 8.0 | 8×1.5 | 5 | 14.2 | 24×0.75 | 5 | 18.0 |
| 2×1.0 | 5 | 8.4 | 8×2.5 | 5 | 16.6 | 24×1.0 | 5 | 19.6 |
| 2×1.5 | 5 | 9.2 | 8×4 | 5 | 18.3 | 24×1.5 | 5 | 22.0 |
| 2×2.5 | 5 | 10.6 | 8×6 | 5 | 20.5 | 24×2.5 | 5 | 26.5 |
| 2×4 | 5 | 11.6 | 8×10 | 5 | 25.2 | 27×0.5 | 5 | 17.7 |
| 2×6 | 5 | 13.2 | 10×0.5 | 5 | 12.2 | 27×0.75 | 5 | 18.3 |
| 2×10 | 5 | 16.0 | 10×0.75 | 5 | 13.2 | 27×1.0 | 5 | 20.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3×0.5 | 5 | 8.1 | 10×1.0 | 5 | 14.2 | 27×1.5 | 5 | 22.4 |
| 3×0.75 | 5 | 8.3 | 10×1.5 | 5 | 15.8 | 27×2.5 | 5 | 27.0 |
| 3×1.0 | 5 | 8.8 | 10×2.5 | 5 | 18.6 | 30×0.5 | 5 | 18.3 |
| 3×1.5 | 5 | 9.6 | 10×4 | 5 | 21.0 | 30×0.75 | 5 | 18.9 |
| 3×2.5 | 5 | 11.1 | 10×6 | 5 | 23.0 | 30×1.0 | 5 | 20.6 |
| 3×4 | 5 | 12.2 | 10×10 | 5 | 29.1 | 30×1.5 | 5 | 23.2 |
| 3×6 | 5 | 14.1 | 12×0.5 | 5 | 13.1 | 30×2.5 | 5 | 27.9 |
| 3×10 | 5 | 16.9 | 12×0.75 | 5 | 13.5 | 37×0.5 | 5 | 20.0 |
| 4×0.5 | 5 | 8.7 | 12×1.0 | 5 | 14.6 | 37×0.75 | 5 | 20.7 |
| 4×0.75 | 5 | 8.9 | 12×1.5 | 5 | 16.3 | 37×1.0 | 5 | 22.1 |
| 4×1.0 | 5 | 9.4 | 12×2.5 | 5 | 19.6 | 37×1.5 | 5 | 25.2 |
| 4×1.5 | 5 | 10.4 | 12×4 | 5 | 21.7 | 37×2.5 | 5 | 30.7 |
| 4×2.5 | 5 | 12.1 | 12×6 | 5 | 23.7 | 44×0.5 | 5 | 22.2 |
| 4×4 | 5 | 14.1 | 14×0.5 | 5 | 13.7 | 44×0.75 | 5 | 23.0 |
| 4×6 | 5 | 15.3 | 14×0.75 | 5 | 14.3 | 44×1.0 | 5 | 24.9 |
| 4×10 | 5 | 18.5 | 14×1.0 | 5 | 15.2 | 44×1.5 | 5 | 28.1 |
| 5×0.5 | 5 | 9.3 | 14×1.5 | 5 | 17.0 | 44×2.5 | 5 | 34.7 |
| 5×0.75 | 5 | 9.6 | 14×2.5 | 5 | 20.5 | 48×0.5 | 5 | 22.5 |
| 5×1.0 | 5 | 10.1 | 14×4 | 5 | 22.7 | 48×0.75 | 5 | 23.3 |
| 5×1.5 | 5 | 11.2 | 14×6 | 5 | 25.1 | 48×1.0 | 5 | 25.2 |
| 5×2.5 | 5 | 13.7 | 16×0.5 | 5 | 14.5 | 48×1.5 | 5 | 29.1 |
| 5×4 | 5 | 15.3 | 16×0.75 | 5 | 15.0 | 48×2.5 | 5 | 35.2 |
| 5×6 | 5 | 16.6 | 16×1.0 | 5 | 16.0 | 52×0.5 | 5 | 23.1 |
| 5×10 | 5 | 20.5 | 16×1.5 | 5 | 17.8 | 52×0.75 | 5 | 23.9 |
| 7×0.5 | 5 | 10.0 | 16×2.5 | 5 | 21.5 | 52×1.0 | 5 | 25.9 |
| 7×0.75 | 5 | 10.3 | 16×4 | 5 | 23.9 | 52×1.5 | 5 | 29.8 |
| 7×1.0 | 5 | 10.9 | 16×6 | 5 | 26.5 | 52×2.5 | 5 | 36.4 |
| 7×1.5 | 5 | 12.1 | 19×0.5 | 5 | 15.2 | 61×0.5 | 5 | 24.4 |
| 7×2.5 | 5 | 15.0 | 19×0.75 | 5 | 15.7 | 61×0.75 | 5 | 25.6 |
| 7×4 | 5 | 16.5 | 19×1.0 | 5 | 16.7 | 61×1.0 | 5 | 27.4 |
| 7×6 | 5 | 18.0 | 19×1.5 | 5 | 18.7 | 61×1.5 | 5 | 31.6 |
| 7×10 | 5 | 22.3 | 19×2.5 | 5 | 22.6 | 61×2.5 | 5 | 38.5 |
| 8×0.5 | 5 | 10.9 | 19×4 | 5 | 25.4 | / | / | / |
| 8×0.75 | 5 | 11.3 | 19×6 | 5 | 27.9 | / | / | / |

# 硅橡胶绝缘（阻燃）控制电缆

## (Flame retardant) Control cable with silicon insulation

本产品适用于钢铁、冶炼、电厂、焦化厂、航空、冶金机械、石油、化工等高温工业中，额定电压450/750V及以下的控制及监控回路中。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性，同时具有很好的耐寒性、耐候性。

It is widely used for supervising and controlling return circuit of rated voltage up to and including 450/750V for production under high temperature in the □eld of steel & iron, re□nery, power plant, coking plant, aviation, metallurgy, machinery, petrochemical industry etc. It has good feature of high temperature resistance, □ame retardance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance and weather resistance.

### 一、生产执行标准

TICW5-2009，JB/T13108-2017及企业标准。

### Executive standard

TICW5-2009,JB/T13108 and Enterprise standard.

### 二、使用特点

1、交流额定电压$U_0$/U：450/750V；

2、电缆的敷设温度应不低于-20℃；

3、电缆允许工作最高温度范围：-60℃~+180℃，推荐无铠装或屏蔽结构弯曲半径不小于电缆外径的6倍，有铠装或屏蔽结构的电缆其弯曲半径不小于电缆外径的12倍；

4、有优良的耐臭氧老化、热老化、紫外光老化和大气老化性能。

### Operational performance

1.A.C rated voltage $U_0$/U: 450/750V.

2.Temperature for installing is not lower than -20℃.

3.Working temperature allowed by cable is -60℃~+180℃. Recommended bending radius:It shall be not less than 12 times that of cable O.D for armored or shield structure cable ,and 6 times that of cable O.D for cable without armored and shield structure .

4.It has good features of ozone aging resistance, thermal aging resistance, ultraviolet resistance and atmosphere aging resistance.

### 三、型号名称及主要使用范围

### Type, description and main application occasion

| 型号 Type | 名称 Description | 主要使用范围 Application occasion |
|---|---|---|
| KGG<br>KGGR | 铜芯硅橡胶绝缘硅橡胶护套控制（软）电缆<br>Control(soft) cable with Cu core, silicon rubber insulation and sheath | 敷设在室内、电缆沟、管道固定场合及要求柔软等移动场合。<br>For laying indoors, in cable trench, in conduit,with demand on mobility and softness |
| KGGP<br>KGGRP | 铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制（软）电缆<br>Control(soft) cable with Cu core, silicon rubber insulation and sheath, braided shielding | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合及要求柔软、屏蔽等移动场合。<br>To be fixedly laid indoor, cable trench or pipe ,in the environment with demand on softness and shielding |
| $KGGP_2$ | 铜芯硅橡胶绝缘硅橡胶护套铜带屏蔽控制电缆<br>Control cable with Cu core, silicon rubber insulation and sheath, copper tape shielding | 敷设在室内、电缆沟、管道等要求屏蔽的固定场合。<br>To be fixed laid indoor, cable trench or pipe with demand on shielding |
| KGG2G | 铜芯硅橡胶绝缘硅橡胶护套钢带铠装控制电缆<br>Control cable with Cu core,silicon rubber insulation&sheath and steel tape armored | 敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。<br>To be laid in cable trench or direct in ground etc, able to bear external mechanical forces,and for fixed installation. |
| KGGP2-2G | 铜芯硅橡胶绝缘铜带屏蔽钢带铠装硅橡胶护套控制电缆<br>Control cable with Cu core，silicon rubber insulation, Copper tape shielding,steel tape armored,silicon sheath | 敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。<br>To be laid in cable trench or direct in ground etc, able to bear external mechanical forces,and for fixed installation. |
| KGG3G | 铜芯硅橡胶绝缘细钢丝铠装硅橡胶护套控制电缆<br>Control cable with Cu core，silicon rubber insulation,steel wire armored,silicon sheath | 敷设在垂直式落差的场合，能承受一定机械外压力的固定场合。<br>To be laid laid on the occasion of vertical drop and able to bear external mechanical forces and for fixed installation. |
| KGGP3-2G | 铜芯硅橡胶绝缘铝/塑复合带屏蔽钢带铠装硅橡胶护套控制电缆<br>Control cable with Cu core，silicon rubber insulation, Al/polyester tape shielding,steel tape armored,silicon sheath | 敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。<br>To be laid in cable trench or direct in ground etc, able to bear external mechanical forces,and for fixed installation. |

注：也可提供阻燃型硅橡胶控制电缆，订货时可在上表中的型号前加“ZA、ZB、ZC、ZD”。

Note: we can also offer flame resistance control cable with silicon rubber insulation&sheath, prefix "ZA,ZB,ZC,ZD"should be added to type in table.

## 四、电缆规格 Cable specification

| 型号 Type | 导体标称截面 mm² Nominal cross section of conductor area | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 0.5 | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | 芯数 Core number | | | | | | | |
| KGG、KGGP | / | 2~61 | | | | 2~14 | | 2~10 |
| KGGP2、KGGP3 | / | 2~61 | | | | 2~14 | | 2~10 |
| KGG2G | / | 7~61 | | | 4~61 | 2~14 | | 2~10 |
| KGGP2-2G、KGGP3-2G | / | 7~37 | | | 4~61 | 2~14 | | 2~10 |
| KGG3G | / | 7~37 | | | | 2~14 | | 2~10 |
| KGGP | 2~61 | | | | | / | | / |
| KGGRP | 2~61 | | | 2~48 | | / | | / |

推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52和61芯。
斜体部分型号不是优先型号。
Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.
The Italis part is not preferred.

## 五、技术参数 Technical Parameter

1、成品电缆20℃时绝缘电阻常数应≥1500MΩ.km，工作温度时绝缘电阻常数应≥0.15MΩ.km；

2、成品电缆应经受工频交流2500V电压试验。绝缘不击穿。

1.Insulation resistance constant of finished cable shall no less than 1500MΩ.km at 20℃ and no less than 0.15MΩ.km at working temperature.

2.Finished cable shall subjected to power frequency AC 2500V voltage test.Insulation without puncture.

## 六、交货长度 Delivery Length

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%。

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 氟塑料绝缘控制电缆

## Control Cable with Fluoroplastics Insulation

本产品适用于交流额定电压450/750V及以下控制、监控回路以及电器仪表的连接线和自动控制系统的传输线。产品具有耐油、防水、耐磨、耐酸碱及各种化学试剂（除氯仿外）和各种腐蚀性气体、耐老化、不燃烧等优异性能；本产品主要适用于冶金、电力、化工、石油等工矿企业在高温、低温及各种恶劣环境中作电器、仪表的连接线和自动控制系统的传输线。氟塑料绝缘和护套耐高温控制电缆采用聚全氟乙丙烯材料，产品具有比普通控制电缆更高的耐热等级。

It is used as connection cable for electric appliances & instruments and transmission cable for automatic control system in controlling and supervising loop of A.C.rated voltage of 450/750V or lower. It has good feature of oil resistance, abrasion resistance, acid & alkali resistance, resistant to various chemical reagent(except chloroform) and corrosive gas resistance, aging resistance and incombustible etc. It is used as connection cable for electric appliances & instruments and transmission cable for automatic control system under bad environment of extreme temperature mainly in the field of metallurgy, power, chemical and petroleum enterprises. FEP material used in high temperature resistant cable with fluoroplastic insulation and sheath. It has better heat resistant degree compared with common control cable.

### 一、生产执行标准

TICW3-2009，JB/T13485-2018及企业标准。

### Executive standard

TICW3-2009,JB/T13485-2018 and Enterprise standard.

### 二、使用特点

1、交流额定电压：$U_0/U$为450/750V；

2、电缆导体长期允许工作温度为：氟塑料绝缘为200℃；

3、电缆的敷设温度应不低于： 硅橡胶护套电缆-20℃，氟塑料护套电缆-15℃；

4、电缆推荐允许弯曲半径：无铠装层的电缆，应不小于电缆外径的8倍；有铠装层的电缆或带铜带屏蔽结构的电缆，应不小于电缆外径的15倍。

### Operational performance

1.A.C. rated voltage $U_0/U$: 450/750V.
2.Long-term working temperature of cable conductor:
Temperature of fluoroplastics insulation is 200℃.
3.Temperature for installing cable is no lower than: -20 ℃ for cable with silicon rubber sheath.-15℃ for cable with fluoroplastic sheath.
4.Bending radius allowed by cable:It is no less than 8 times that of cable OD for cable with unarmored.It is no less than 15times that of cable OD for cable with armored layer or copper tape shielding.

### 三、型号名称

1、型号结构组合形式

### Type and Description

Type-naming Indication




2、基本型号与名称

Basic Type and Description

| 型号 Type | 名称 Description |
|---|---|
| KFF | 氟塑料绝缘氟塑料护套控制电缆<br>Control cable with fluoroplastic insulation and sheath |
| KFFP | 氟塑料绝缘氟塑料护套铜丝编织屏蔽控制电缆<br>Control cable with fluoroplastic insulation and sheath,copper wire braided shielding |

| | |
|---|---|
| KFFR | 氟塑料绝缘氟塑料护套控制软电缆<br>Control flexible soft cable with fluoroplastic insulation and sheath |
| KFFRP | 氟塑料绝缘氟塑料护套铜丝编织屏蔽控制软电缆<br>Control flexible cable with fluoroplastic insulation and sheath,copper wire braided shielding |
| KFG | 氟塑料绝缘硅橡胶护套控制电缆<br>Control cable with fluoroplastic insulation,silicon rubber sheath |
| KFGP | 氟塑料绝缘硅橡胶护套铜丝编织屏蔽控制电缆<br>Control cable with fluoroplastic insulation,silicon rubber sheath,copper wire braided shielding |
| KFGR | 氟塑料绝缘硅橡胶护套控制软电缆<br>Control flexible soft cable with fluoroplastic insulation,silicon rubber sheath |
| KFGRP | 氟塑料绝缘硅橡胶护套铜丝编织屏蔽控制软电缆<br>Control flexible cable with fluoroplastic insulation,silicon rubber sheath,copper wire braided shielding |

## 四、代号名称及含义 Codes Meaning

| 项目 Item | 代号 Code | 说明 Description |
|---|---|---|
| 阻燃特性<br>Flame-retarding characteristics | ZRA/ZA | A类阻燃 Flame retardance of category A |
| | ZRB/ZB | B类阻燃 Flame retardance of category B |
| | ZRC/ZC | C类阻燃 Flame retardance of category C |
| 系列代号<br>Series number | K | 控制电缆 Control cable |
| 绝缘材料<br>Insulation material | F | 氟塑料 Fluoroplastic |
| 护套材料<br>Sheath material | G | 硅橡胶 Silicon rubber |
| | F | 氟塑料 Fluoroplastic |
| 屏蔽材料<br>Shielding material | P | 铜丝编织屏蔽 Copper wire braided shielding |
| | P1 | 镀锡铜丝编织屏蔽 Tinned copper wire braided shielding |
| | P2 | 铜带屏蔽 Copper tape shielding |
| | P3 | 铝/塑复合带屏蔽 Aluminum/plastic composite tape shielding |
| 铠装材料<br>Armoring material | 9 | 细钢丝编织铠装 Fine steel wire braiding armored |

注：可根据用户需要生产、设计特殊规格和型号电缆。

Note: we also produce cable with special specification and type according to the requirement of customer.

## 五、规格 Specication

| 型号<br>Type | 额定电压V<br>Rated voltage | 导体标称截面 mm² Nominal cross section of conductor area | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 0.5 | 0.75 | 1.0 | 1.5 | 2.5 | 4 | 6 | 10 |
| | | 芯数 Core number | | | | | | | |
| KFF,KFG,KFFP<br>KFGP,KFFP2 | 450/750 | 2~19 | | | | | 2~12 | | |
| KFFP,KFGP,FFRP<br>KFGR,KFFR | 450/750 | 2~19 | | | | | - | | |
| KFF9F | | - | 7~61 | | 2~61 | | 2~12 | | |

注：推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19芯，如用户有特殊需要，也可生产61芯以下任意芯数的电缆。

Note: Recommended series of core number 2,3,4,5,7,8,10,12,14,16,19. we also produce cables with any number of cores below 61 cores.

## 六、主要技术指标

1、20℃时导体直流电阻值应符合GB/T3956标准要求。

2、成品电缆应经受交流3000V/5min电压试验。

## Main Technical Indices

1.Conductor DC resistance value at 20℃ shall meet the requirements of GB/T3956 standard.

2.The finished cable shall bear A.C Voltage test of 3000V for 5min.

## 七、常用规格结构尺寸及参考重量

The usual specification structure size and reference weight

**Table1 KFF、KFFP、KFFP2**

| 芯数×标称截面 mm² Core No.*nominal cross | 导体种类 Category of conductor | 最大外径 mm Max. outer diameter | | |
|---|---|---|---|---|
| | | KFF | KFFP | KFFP2 |
| 2×0.5 | 1 | 4.5 | 5.4 | 5.0 |
| 2×0.75 | 1 | 4.9 | 5.8 | 5.4 |
| 2×1.0 | 1 | 5.2 | 6.1 | 5.7 |
| 2×1.5 | 1 | 5.8 | 6.7 | 6.3 |
| 2×2.5 | 1 | 6.5 | 7.4 | 7.0 |
| 2×4 | 1 | 7.8 | 8.7 | 8.3 |
| 2×6 | 1 | 8.9 | 9.8 | 9.4 |
| 3×0.5 | 1 | 4.7 | 5.6 | 5.2 |
| 3×0.75 | 1 | 5.2 | 6.1 | 5.7 |
| 3×1.0 | 1 | 5.3 | 6.2 | 5.8 |
| 3×1.5 | 1 | 6.1 | 7 | 6.6 |
| 3×2.5 | 1 | 7.1 | 8 | 7.6 |
| 3×4 | 1 | 8.5 | 9.4 | 9.0 |
| 4×0.5 | 1 | 5.1 | 6 | 5.6 |
| 4×0.75 | 1 | 5.7 | 6.6 | 6.2 |
| 4×1.0 | 1 | 6.2 | 7.1 | 6.7 |
| 4×1.5 | 1 | 6.8 | 7.7 | 7.3 |
| 4×2.5 | 1 | 7.7 | 8.6 | 8.2 |
| 4×4 | 1 | 9.6 | 10.5 | 10.1 |
| 5×0.5 | 1 | 5.9 | 6.8 | 6.4 |
| 5×0.75 | 1 | 6.4 | 7.3 | 6.9 |
| 5×1.0 | 1 | 6.8 | 7.7 | 7.3 |
| 5×1.5 | 1 | 7.5 | 8.4 | 8.0 |
| 5×2.5 | 1 | 8.8 | 9.7 | 9.3 |
| 5×4 | 1 | 10.6 | 11.5 | 12.1 |
| 7×0.5 | 1 | 6.3 | 7.3 | 6.8 |
| 7×0.75 | 1 | 7.1 | 8.1 | 7.6 |
| 7×1.0 | 1 | 7.4 | 8.4 | 7.9 |
| 7×1.5 | 1 | 8.2 | 9.2 | 8.7 |
| 7×2.5 | 1 | 9.5 | 10.5 | 10 |
| 7×4 | 1 | 11.6 | 12.6 | 12.1 |
| 8×0.5 | 1 | 6.8 | 7.8 | 7.3 |
| 8×0.75 | 1 | 7.5 | 8.5 | 8.0 |
| 8×1.0 | 1 | 7.9 | 8.9 | 8.4 |
| 8×1.5 | 1 | 8.7 | 9.7 | 9.2 |
| 8×2.5 | 1 | 10.3 | 11.3 | 10.8 |

**Sequel table1 KFF、KFFP、KFFP2**

| 芯数×标称截面 mm² Core No.*nominal cross | 导体种类 Category of conductor | 最大外径 mm Max. outer diameter | | |
|---|---|---|---|---|
| | | KFF | KFFP | KFFP2 |
| 10×0.5 | 1 | 7.9 | 8.9 | 8.4 |
| 10×0.75 | 1 | 8.7 | 9.7 | 9.2 |
| 10×1.0 | 1 | 9.3 | 10.3 | 9.8 |
| 10×1.5 | 1 | 10.3 | 11.3 | 10.8 |
| 10×2.5 | 1 | 12.1 | 13.1 | 12.6 |
| 12×0.5 | 1 | 8.2 | 9.2 | 8.7 |
| 12×0.75 | 1 | 9.0 | 10.0 | 9.5 |
| 12×1.0 | 1 | 9.6 | 10.6 | 10.1 |
| 12×1.5 | 1 | 10.8 | 11.8 | 11.3 |

| | | | | |
|---|---|---|---|---|
| 12×2.5 | 1 | 12.5 | 13.5 | 13.0 |
| 14×0.5 | 1 | 8.8 | 9.8 | 9.3 |
| 14×0.75 | 1 | 9.9 | 10.9 | 10.4 |
| 14×1.0 | 1 | 11.5 | 12.6 | 12.3 |
| 14×1.5 | 1 | 11.6 | 12.7 | 12.4 |
| 14×2.5 | 1 | 13.3 | 14.4 | 14.1 |
| 16×0.5 | 1 | 9.5 | 10.6 | 10.3 |
| 16×0.75 | 1 | 10.4 | 11.5 | 11.2 |
| 16×1.0 | 1 | 11.0 | 12.1 | 11.8 |
| 16×1.5 | 1 | 13.0 | 14.3 | 13.8 |
| 16×2.5 | 1 | 15.1 | 16.4 | 16.0 |
| 19×0.5 | 1 | 10.3 | 11.4 | 11.1 |
| 19×0.75 | 1 | 11.3 | 12.4 | 12.1 |
| 19×1.0 | 1 | 12.7 | 14.0 | 14.0 |
| 19×1.5 | 1 | 13.7 | 15.2 | 14.8 |
| 19×2.5 | 1 | 16.0 | 17.2 | 16.8 |
| 24×0.5 | 1 | 11.7 | 12.8 | 12.5 |
| 24×0.75 | 1 | 13.2 | 14.4 | 14.0 |
| 24×1.0 | 1 | 15.2 | 16.4 | 16.0 |
| 24×1.5 | 1 | 15.9 | 17.1 | 17.0 |
| 24×2.5 | 1 | 19.1 | 20.6 | 20.1 |
| 27×0.5 | 1 | 12.2 | 13.7 | 13.2 |
| 27×0.75 | 1 | 13.4 | 14.9 | 14.5 |
| 27×1.0 | 1 | 14.5 | 16.5 | 16.0 |
| 27×1.5 | 1 | 16.3 | 18.0 | 17.5 |
| 27×2.5 | 1 | 19.5 | 21.0 | 20.5 |
| 30×0.5 | 1 | 12.6 | 14.2 | 13.6 |
| 30×0.75 | 1 | 13.7 | 15.4 | 14.7 |
| 30×1.0 | 1 | 14.6 | 17.0 | 15.6 |
| 30×1.5 | 1 | 16.9 | 18.6 | 18.1 |
| 30×2.5 | 1 | 20.3 | 21.8 | 21.3 |

**Sequel table1 KFF、KFFP、KFFP2**

| 芯数×标称截面 mm²<br>Core No.*nominal cross | 导体种类<br>Category of conductor | 最大外径 mm<br>Max. outer diameter | | |
|---|---|---|---|---|
| | | KFF | KFFP | KFFP2 |
| 33×0.5 | 1 | 13.1 | 14.6 | 14.1 |
| 33×0.75 | 1 | 14.2 | 15.5 | 15.0 |
| 33×1.0 | 1 | 15.2 | 16.7 | 16.2 |
| 33×1.5 | 1 | 17.8 | 19.3 | 18.8 |
| 33×2.5 | 1 | 21.1 | / | / |
| 37×0.5 | 1 | 13.6 | 15.2 | 14.6 |
| 37×0.75 | 1 | 14.8 | 16.3 | 15.8 |
| 37×1.0 | 1 | 15.9 | 17.6 | 17.1 |
| 37×1.5 | 1 | 18.5 | 20.0 | 19.5 |
| 37×2.5 | 1 | 22.0 | / | / |
| 44×0.5 | 1 | 14.3 | 15.6 | 15.1 |
| 44×0.75 | 1 | 16.9 | 18.4 | 17.9 |
| 44×1.0 | 1 | 18.1 | 19.6 | 19.1 |
| 44×1.5 | 1 | 20.9 | 21.9 | / |
| 48×0.5 | 1 | 14.5 | 16.0 | 15.5 |
| 48×0.75 | 1 | 17.2 | 18.7 | 18.2 |
| 48×1.0 | 1 | 18.4 | 19.9 | 19.4 |
| 48×1.5 | 1 | 21.3 | / | / |
| 52×0.5 | 1 | 15.0 | 16.5 | 16.0 |
| 52×0.75 | 1 | 17.7 | 19.2 | 18.7 |
| 52×1.0 | 1 | 18.9 | 20.4 | 19.9 |
| 52×1.5 | 1 | 21.9 | / | / |

## Sequel table 2 KFFR、KFFRP、KFFRP2

| 芯数×标称截面 mm² Core No.*nominal cross | 导体种类 Category of conductor | 最大外径 mm Max. outer diameter | | |
|---|---|---|---|---|
| | | KFFR | KFFRP | KFFRP2 |
| 2×0.5 | 5 | 5.1 | 6.3 | 5.7 |
| 2×0.75 | 5 | 5.9 | 7.1 | 6.5 |
| 2×1.0 | 5 | 6.3 | 7.5 | 6.9 |
| 2×1.5 | 5 | 6.7 | 7.9 | 7.3 |
| 2×2.5 | 5 | 8.5 | 9.7 | 9.1 |
| 3×0.5 | 5 | 5.4 | 6.6 | 6.0 |
| 3×0.75 | 5 | 6.4 | 7.6 | 7.0 |
| 3×1.0 | 5 | 6.8 | 8.0 | 7.4 |
| 3×1.5 | 5 | 7.3 | 8.5 | 7.9 |
| 3×2.5 | 5 | 8.9 | 10.1 | 9.5 |
| 4×0.5 | 5 | 5.9 | 7.1 | 6.5 |
| 4×0.75 | 5 | 7.0 | 8.2 | 7.6 |
| 4×1.0 | 5 | 7.6 | 8.8 | 8.2 |
| 4×1.5 | 5 | 8.1 | 9.3 | 8.7 |
| 4×2.5 | 5 | 9.8 | 11.0 | 10.4 |
| 5×0.5 | 5 | 6.4 | 7.6 | 7.0 |
| 5×0.75 | 5 | 7.7 | 8.9 | 8.3 |
| 5×1.0 | 5 | 8.4 | 9.6 | 9.0 |
| 5×1.5 | 5 | 8.9 | 10.1 | 9.5 |
| 5×2.5 | 5 | 10.6 | 11.8 | 11.2 |
| 7×0.5 | 5 | 7.2 | 8.4 | 7.8 |
| 7×0.75 | 5 | 8.5 | 9.7 | 9.1 |
| 7×1.0 | 5 | 9.1 | 10.3 | 9.7 |
| 7×1.5 | 5 | 9.7 | 10.9 | 10.3 |
| 7×2.5 | 5 | 11.8 | 13.0 | 12.4 |
| 8×0.5 | 5 | 7.9 | 9.1 | 8.5 |
| 8×0.75 | 5 | 9.2 | 10.4 | 9.8 |
| 8×1.0 | 5 | 9.9 | 11.1 | 10.5 |
| 8×1.5 | 5 | 10.6 | 11.8 | 11.2 |
| 8×2.5 | 5 | 12.8 | 14.0 | 13.4 |
| 10×0.5 | 5 | 9.1 | 10.3 | 9.7 |
| 10×0.75 | 5 | 10.8 | 12.0 | 11.4 |
| 10×1.0 | 5 | 11.6 | 12.8 | 12.2 |
| 10×1.5 | 5 | 12.4 | 13.6 | 13.0 |
| 10×2.5 | 5 | 15.4 | 16.6 | 16.0 |
| 12×0.5 | 5 | 9.4 | 10.6 | 10.0 |
| 12×0.75 | 5 | 11.2 | 12.4 | 11.8 |
| 12×1.0 | 5 | 12.0 | 13.2 | 12.6 |
| 12×1.5 | 5 | 12.8 | 14.0 | 13.4 |
| 12×2.5 | 5 | 16.0 | 17.2 | 16.6 |

## Sequel table 2 KFFR、KFFRP、KFFRP2

| 芯数×标称截面 mm² Core No.*nominal cross | 导体种类 Category of conductor | 最大外径 mm Max. outer diameter | | |
|---|---|---|---|---|
| | | KFFR | KFFRP | KFFRP2 |
| 14×0.5 | 5 | 9.9 | 11.0 | 10.6 |
| 14×0.75 | 5 | 10.7 | 11.8 | 11.4 |
| 14×1.0 | 5 | 12.8 | 13.9 | 13.5 |
| 14×1.5 | 5 | 13.7 | 14.8 | 14.4 |
| 14×2.5 | 5 | 16.3 | 17.4 | 17.0 |
| 16×0.5 | 5 | 10.4 | 11.5 | 11.1 |
| 16×0.75 | 5 | 12.4 | 13.5 | 13.1 |
| 16×1.0 | 5 | 13.5 | 14.6 | 14.2 |
| 16×1.5 | 5 | 14.5 | 15.6 | 15.2 |
| 16×2.5 | 5 | 17.2 | 18.3 | 17.9 |

| | | | | |
|---|---|---|---|---|
| 19×0.5 | 5 | 11.0 | 12.1 | 11.7 |
| 19×0.75 | 5 | 13.3 | 14.4 | 14.0 |
| 19×1.0 | 5 | 14.3 | 15.4 | 15.0 |
| 19×1.5 | 5 | 14.8 | 15.9 | 15.5 |
| 19×2.5 | 5 | 18.3 | 19.4 | 19.0 |
| 24×0.5 | 5 | 13.1 | 14.2 | 13.8 |
| 24×0.75 | 5 | 14.4 | 15.5 | 15.1 |
| 24×1.0 | 5 | 15.3 | 16.4 | 16.0 |
| 24×1.5 | 5 | 17.8 | 18.9 | 18.5 |
| 24×2.5 | 5 | 22.3 | 23.4 | 23.0 |
| 27×0.5 | 5 | 13.4 | 14.5 | 14.1 |
| 27×0.75 | 5 | 14.4 | 15.5 | 15.1 |
| 27×1.0 | 5 | 15.3 | 16.4 | 16.0 |
| 27×1.5 | 5 | 17.8 | 18.9 | 18.5 |
| 27×2.5 | 5 | 22.3 | 23.4 | 23.0 |
| 30×0.5 | 5 | 13.9 | 15.0 | 14.6 |
| 30×0.75 | 5 | 15.0 | 16.1 | 15.7 |
| 30×1.0 | 5 | 15.9 | 17.0 | 16.6 |
| 30×1.5 | 5 | 18.5 | 19.6 | 19.2 |
| 33×0.5 | 5 | 13.9 | 15.0 | 14.6 |
| 33×0.75 | 5 | 15.6 | 16.7 | 16.3 |
| 33×1.0 | 5 | 16.6 | 17.7 | 17.3 |
| 33×1.5 | 5 | 19.5 | 20.6 | 20.2 |
| 37×0.5 | 5 | 14.5 | 15.6 | 15.2 |
| 37×0.75 | 5 | 16.2 | 17.3 | 16.9 |
| 37×1.0 | 5 | 17.3 | 18.4 | 18.0 |
| 37×1.5 | 5 | 20.3 | 21.4 | 21.0 |
| 44×0.5 | 5 | 16.3 | 17.4 | 17.0 |
| 44×0.75 | 5 | 18.5 | 19.6 | 19.2 |
| 44×1.0 | 5 | 19.7 | 20.8 | 20.4 |
| 48×0.5 | 5 | 16.8 | 17.9 | 17.5 |
| 48×0.75 | 5 | 18.9 | 20.0 | 19.6 |
| 48×1.0 | 5 | 20.6 | 21.7 | 21.3 |
| 52×0.5 | 5 | 17.5 | 18.6 | 18.2 |
| 52×0.75 | 5 | 19.5 | 20.6 | 20.2 |
| 52×1.0 | 5 | 20.8 | 21.9 | 21.5 |

## 八、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

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 计算机与仪表屏蔽电缆
# Computer and Instrument shielding Cable





## 计算机与仪表屏蔽电缆（含本安型）
## Computer and Instrument Shielding Cable（including Intrinsic Safety Type）

# 计算机与仪表屏蔽电缆（含本安型）

## Computer and Instrument Shielding Cable（including Intrinsic Safety Type）

本产品适用于电子计算机系统、监控回路、自动化控制系统的信号传输及检测仪器、仪表连接用连接线。

It is used as connection cable of inspection devices and instruments with high demand on interference resistant performance in computer network and control system.

## 一、生产执行标准

TICW6-2009、JB/T 13486-2018及企业标准。

## Executive standard

TICW6-2009、JB/T 13486-2018 and Enterprise Standard.

## 二、使用特性

1、工作电压：交流50HZ，$u_0/u$：300/500V；

2、正常运行时，导体长期允许最高工作温度：聚氯乙烯绝缘电缆分+70℃、+105℃两种；聚乙烯绝缘电缆为+70℃；无卤低烟聚烯烃绝缘电缆为+70℃；交联聚乙烯绝缘为+90℃；硅橡胶绝缘电缆+180℃；氟塑料绝缘电缆+200℃；

3、安装敷设时环境温度：不低于0℃；

4、电缆允许最小弯曲半径：金属带绕包屏蔽或钢丝、钢带铠装电缆不小于电缆外径的12倍；非铠装软电缆或编织屏蔽电缆不小于电缆外径的8倍。

## Operational performance

1.Working voltage: AC 50HZ $u_0/u$: 300/500V.
2.Maximum long-term working temperature of conductor as following:
PVC insulation: +70℃、+105℃.
PE insulation: +70℃. LSZH insulation: +70℃.
XLPE insulation: +90℃.
Silicone rubber insulation:+180℃.
Fluoroplastic insulation:+200℃.
3.Installation temperature: above 0℃.
4.Allowed Min. bending radius: no less than 12 times OD of cable with metal tape wrapped shielding or steel wire/tape armored,no less than 8 times that of cable OD for non-armored flexible cable or braided shielding cable.

## 三、型号名称及含义

## Type, Description and Definition

举例：

DJ Y P3 V P3-32

- 钢丝缠绕铠装聚氯乙烯护套 Steel wire winding armor PVC outer sheath
- 铝塑复合带绕包总屏蔽 Aluminum-plastic compound tape wrapped general shielding
- 聚氯乙烯内护层 PVC inner sheath
- 铝塑复合带绕包分屏蔽 Aluminum-plastic compound tape wrapped individual shielding
- 聚乙烯绝缘 PE insulation
- 计算机电缆系列代号 Series number of computer cable

举例：

IA DJ YJ P3 V P3 22

- 铠装（双层镀锌钢带绕包聚氯乙烯外护套）
  Armor(dual layer galvanized steel tape wrapped PVC outer sheath)
- 总屏蔽（同分对屏蔽）
  Overall shielding(The same to individual shielding)
- 内护套（V表示聚氯乙烯）
  Inner sheath(V means PVC)
- 分对屏蔽（P3表示铝塑复合膜，简称铝箔）
  Individual shielding
  (P3 means aluminum-plastic compound □lm,aluminum foil for short)
- 绝缘（YJ表示交联聚乙烯）
  Insulation(YJ means XLPE)
- 系列代号（表示计算机电缆或DCS系统用电缆）
  Series number(means computer cable cable for DCS system)
- 本安型代号
  Code for intrinsic safety type

**说明：**

绝缘或护套材料：
F—氟塑料绝缘或护套
G—硅橡胶绝缘或护套
Y—聚乙烯或聚烯烃绝缘或护套
V—聚氯乙烯绝缘或护套
YJ—交联聚乙烯绝缘。
阻燃性能分：
ZA/ZRA—A类阻燃（A类阻燃性能最佳）
ZB/ZRB—B类阻燃
ZC/ZRC、ZR—C类阻燃
NH—耐火型。
铠装结构：
22—钢带铠装聚氯乙烯外护套
23—钢带铠装聚乙烯外护套
32—圆形镀锌低碳钢丝缠绕铠装聚氯乙烯外护套
33—圆形镀锌低碳钢丝缠绕铠装聚乙烯外护套
屏蔽材料：
P—铜线编织
P1—镀锡铜线编织
P2/P4-铜塑复合带绕包（若采用铜带，请备注说明）
P3—铝塑复合带绕包
导体种类：
1（A）——单根导体（型号中省略）
2（B）——七根绞合导体（在规格后面加“B”表示）
R——多根绞合导体
注：A（特定要求时，电缆型号或规格中表示单根导体）
B（特定要求时，电缆型号或规格中表示2类绞合导体）
R（电缆型号或规格中R表示5类绞合软导体）

**Explanation:**

Insulation or sheath material:
F means fluoroplastic insulation or sheath
G means silicone rubber insulation or sheath
Y means PE or polyolefin insulation or sheath
V means PVC insulation or sheath
YJ means XLPE insulation
Flame retardant performance category:
ZRA: category A (the best)
ZRB: category B
ZRC & ZR: category C
NH: Fire-resistant
Armor structure:
22 means steel tape armor, PVC outer sheath
23 means steel tape armor, PE outer sheath
32means round galvanized low carbon steel wire wrapping, armor, PVC outer sheath
33means round galvanized low carbon steel wire wrapping, armor, PE outer sheath
Shielding material:
P means copper wire braiding
P1 means tinned copper wire braiding
P2/P4-means copper-plastic compound tape wrapping（Please note ifcopper tape isused.）
P3 means aluminum-plastic compound tape wrapping
structure of conductor:
A means single conductor (omitted in type)
B means 7 stranded conductor（“B” shall be added after specification)
R means multi-stranded conductor
Note:A(For specific requirements,the cable type or specification indicates single conductor)
B(For specific requirements,the cable type or specification indicates category 2 conductor)
R(For specific requirements,the cable type or specification indicates category 5 conductor))

备注：
①阻燃电缆、无卤低烟阻燃电缆、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-”,无卤低烟阻燃型的，在原型号前加“WDZ-”、“WDZA-”、“WDZB-”、“WDZC”“WDZD-”,无卤低烟低毒阻燃型的，在原型号前加“WDUZ-”、“WDUZA-”、“WDUZB-”、“WDUZC”“WDUZD-”。
③耐火型电缆，在原型号前加“N-”、“ZAN-”、“ZBN-”、“ZCN”“ZDN-”,无卤低烟阻燃耐火电缆，在原型号前加“WDZN-”、“WDZAN-”、“WDZBN-”、“WDZCN”“WDZDN-”,无卤低烟低毒阻燃型耐火电缆，在原型号前加“WDUZN-”、“WDUZAN-”、“WDUZBN-”、“WDUZCN”“WDUZDN-”。
④低烟低卤阻燃电缆，在原型号前加“DDZ-”、“DDZA-”、“DDZB-”、“DDZC”“DDZD-”。
⑤防紫外线电缆，在原型号前加“FZ-”。
⑥防蚁电缆，在原型号前加“FY-”。
⑦耐寒电缆，在原型号前加“HD-”。
⑧本安型电缆，在原型号前加“IA-”。

Note:
①The names and models of flame retardant cables, halogen-free low smoke 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;For halogen-free low-smoke flame retardant type, add "WDZ-", "WDZA-", "WDZB-", "WDZC" and "WDZD-" before the original model;For halogen-free, low smoke, low toxicity and flame retardant type, add "WDUZ-", "WDUZA-", "WDUZB-", "WDUZC" and "WDUZD-" before the original model.
③For fire-resistant cable type , add "–", "ZAN-", "ZBN-", "ZCN", "ZDN-" before the original model;
Halogen-free low smoke flame retardant fire-resistant cable, add "WDZN-", "WDZAN-", "WDZBN-", "WDZCN" and "WDZDN-" before the original model;
Halogen-free low-smoke low-toxicity flame-retardant fire-resistant cable, "WDUZN-", "WDUZAN-", "WDUZBN-", "WDUZCN" and "WDUZDN-" are added 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.
⑤For Anti-ultraviolet cable,add"FZ-"before the original model.
⑥For Anti-Ant cable,add"FY-"before the original model.
⑦For Cold-resisitant cable,add"HD-"before the original model.
⑧For Intrinsic safety cable,add"IA-"before the original model.

## 四、基本型号及名称 Basic Type and Description

| 序号No. | 型号 Type | 电缆名称 Description |
|---|---|---|
| 1 | DJYVP | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding |
| 2 | DJYVPR | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding |
| 3 | DJYPV | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding |
| 4 | DJYPVR | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding |
| 5 | DJYPVP | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding |
| 6 | DJYPVPR | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding |
| 7 | DJYVP2 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping overall shielding |
| 8 | DJYVP2R | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping overall shielding |
| 9 | DJYP2V | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding |
| 10 | DJYP2VR | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding |
| 11 | DJYP2VP2 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & overall shielding |
| 12 | DJYP2VP2R | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & overall shielding |
| 13 | DJYVP3 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping overall shielding |
| 14 | DJYVP3R | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping overall shielding |
| 15 | DJYP3V | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding |
| 16 | DJYP3VR | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机软电缆<br>Computer flexible cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding |
| 17 | DJYP3VP3 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & overall shielding |
| 18 | DJYP3VP3R | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机软电缆<br>Computer soft cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & general shielding |
| 19 | DJYVP22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided overall shielding, steel tape armoring |
| 20 | DJYPV22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel tape armoring |
| 21 | DJYPVP22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & overall shielding, steel tape armoring |

| | | |
|---|---|---|
| 22 | DJYVP2-22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall shielding, steel tape armoring |
| 23 | DJYP2V22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel tape armoring |
| 24 | DJYP2VP2-22 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual & overall shielding, steel tape armoring |
| 25 | DJYVP3-22 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overall shielding, steel tape armoring |
| 26 | DJYP3V22 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel tape armoring |
| 27 | DJYP3VP3-22 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢带铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual & overall shielding, steel tape armoring |
| 28 | DJYVP32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding, steel wire armoring |
| 29 | DJYPV32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel wire armoring |
| 30 | DJYPVP32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & overall shielding, steel wire armoring |
| 31 | DJYVP2-32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall shielding, steel wire armoring |
| 32 | DJYP2V32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel wire armoring |
| 33 | DJYP2VP2-32 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, overall & individual shielding, steel wire armoring |
| 34 | DJYVP3-32 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overalll shielding, steel wire armoring |
| 35 | DJYP3V32 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel wire armoring |
| 36 | DJYP3VP3-32 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢丝铠装计算机电缆<br>Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, overall & individual shielding, steel wire armoring |
| 37 | IA-DJYPVP | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆<br>Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding |
| 38 | IA-DJYPVPR | 铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS软电缆<br>Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided overall & individual shielding |
| 39 | IA-DJYP3VP3 | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS电缆<br>Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped overall & individual shielding |
| 40 | IA-DJYP3VP3R | 铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS软电缆<br>Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped overall & individual shielding |
| 41 | IA-DJYP2VP2 | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS电缆<br>Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastics compound tape wrapped overall & individual shielding |
| 42 | IA-DJYP2VP2R | 铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS软电缆<br>Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapped overall & individual shielding |
| 43 | IA-DJYJPVP | 铜芯交联聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆<br>Intrinsic safety type cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper wire braided overall & individual shielding |

## 五、规格范围

对数：1~24对。

每对芯数：二芯（称二线组）或三芯（称三线组）；

导体截面：0.5mm²、0.75mm²、1.0mm²、1.5mm²、2.5mm²。

## Specications range

Pair No.: 1~24 pairs.
Core No. per pair: 2 cores (equal to 2 wire group ) or 3 cores (equal to 3 wire group).
Cross-sectional area of conductor:
0.5mm²,0.75mm²,1.0mm²,1.5mm²,2.5mm².

## 六、主要技术参数

1、20℃导体直流电阻应符合GB/T3956标准要求；

2、20℃绝缘电阻；

| 性能项目 Performance project | PVC绝缘 PVC insulation | PE、XLPE绝缘 PE、XLPE insulation |
|---|---|---|
| 20℃时绝缘电阻 Conductor DC insulation at 20℃（MΩ.km） | ≥25 | ≥3000 |

3、电缆应经受工频交流电压试验：1000V/1min绝缘不发生击穿，试验温度为环境温度。

4、工作电容（1kHz）线芯与线芯≤90PF/m（本安型）；

5、分布电感（1kHz）≤0.6μH/m（本安型）；

6、电磁干扰感应电压(干扰磁场400A/m)≤5mV（本安型）；

7、静电感应电压（静电电压20kV）＜1V（本安型）；

8、辐射场透入强度（干扰场强120dBμV，干扰场频率200MHz）≤66dBμV（本安型）。

## Main Technical Parameter

1.Conductor DC resistance value at 20℃ shall meet the requirements of GB/T 3956 standard.
2.Insulation Resistance at 20℃.
3.Cable shall endure A.C. voltage test of 1000V under power frequency for 1min without puncture of insulation. And testing temperature is environment temperature.
4.Working capacitance(1kHz) core to core ≤90PF/m(Intrinsic Safety Type).
5.Distributing inductance(1kHz)≤0.6μH/m(Intrinsic Safety Type).
6.Inductive voltage of electromagnetic interference(interference magnetic field 400A/m):≤5mV(Intrinsic Safety Type).
7.Inductive voltage of electrostatic(Electrostatic voltage 20kV) ＜1V(Intrinsic Safety Type).
8.Penetration stress of radiant field(stress of interference field is 120dBμV; frequency of interference field is 200MHz) ≤66dBμV(Intrinsic Safety Type).

## 七、其他常见型号与本公司型号对照

## Comparison between other common type and type of our company

| 其他型号 Other type | 本厂型号 Type of our company |
|---|---|
| ia-K2YVR、ia-K3YVR、IJYPLVPLR、IJYP3VR-2 | IA-DJYP3VP3R |
| ia-K2YV、ia-K3YV、IJYPLVPL、IJYP3V-2 ia-K2YV(EX)、ia-K3YV(EX) | IA-DJYP3VP3 |
| KJYYVP 、IA-KJVVP | IA-DJYP3VP3 |

## 八、电缆计算外径（供参考）

## Calculated Outer Diameter of Cable (for reference)

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPV DJVPV DJYJPV | DJYVP DJVVP DJYJVP | DJYPVP DJVPVP DJYJPVP | | | DJYPV DJVPV DJYJPV | DJYVP DJVVP DJYJVP | DJYPVP DJVPVP DJYJPVP |
| 1×2×0.5 | 1 | 6.5 | 6.5 | / | 8×2×1.5 | 1 | 20.0 | 19.0 | 20.4 |
| 1×2×0.75 | | 7.2 | 7.2 | / | 8×2×2.5 | | 23.4 | 22.4 | 23.9 |
| 1×2×1.0 | | 7.5 | 7.8 | / | 10×2×0.5 | | 18.5 | 16.5 | 19.2 |
| 1×2×1.5 | | 8.5 | 8.5 | / | 10×2×0.75 | | 19.6 | 18.5 | 20.1 |
| 1×2×2.5 | | 9.2 | 9.2 | / | 10×2×1.0 | | 20.5 | 19.2 | 21.4 |
| 2×2×0.5 | | 10.5 | 10.0 | 11.2 | 10×2×1.5 | | 22.2 | 21.1 | 22.7 |
| 2×2×0.75 | | 11.0 | 10.5 | 11.5 | 10×2×2.5 | | 25.7 | 24.5 | 26.7 |
| 2×2×1.0 | | 11.7 | 11.4 | 12.6 | 12×2×0.5 | | 19.3 | 17.4 | 20.1 |
| 2×2×1.5 | | 12.8 | 12.1 | 13.3 | 12×2×0.75 | | 20.6 | 19.4 | 21.1 |
| 2×2×2.5 | | 15.0 | 14.7 | 15.5 | 12×2×1.0 | | 22.0 | 20.8 | 22.5 |
| 3×2×0.5 | | 11.5 | 10.8 | 12.2 | 12×2×1.5 | | 23.4 | 22.2 | 23.9 |
| 3×2×0.75 | | 12.1 | 11.6 | 13.0 | 12×2×2.5 | | 27.6 | 26.4 | 28.1 |
| 3×2×1.0 | | 13.3 | 12.3 | 13.8 | 14×2×0.5 | | 20.3 | 18.8 | 21.0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3×2×1.5 | 1 | 14.2 | 13.6 | 14.6 | 14×2×0.75 | 1 | 21.5 | 20.3 | 22.0 |
| 3×2×2.5 | | 16.5 | 15.8 | 17.0 | 14×2×1.0 | | 23.0 | 21.8 | 23.5 |
| 4×2×0.5 | | 12.8 | 11.6 | 13.5 | 14×2×1.5 | | 24.5 | 23.3 | 26.5 |
| 4×2×0.75 | | 13.5 | 13.0 | 14.0 | 14×2×2.5 | | 29.5 | 27.7 | 30.0 |
| 4×2×1.0 | | 14.4 | 13.9 | 14.9 | 16×2×0.5 | | 21.8 | 20.0 | 22.5 |
| 4×2×1.5 | | 15.3 | 14.7 | 15.8 | 16×2×0.75 | | 23.1 | 21.6 | 23.6 |
| 4×2×2.5 | | 18.5 | 17.4 | 19.0 | 16×2×1.0 | | 24.7 | 23.2 | 25.2 |
| 5×2×0.5 | | 13.6 | 12.0 | 14.3 | 16×2×1.5 | | 26.3 | 24.8 | 26.8 |
| 5×2×0.75 | | 14.4 | 13.6 | 14.9 | 16×2×2.5 | | 31.5 | 30.2 | 32.2 |
| 5×2×1.0 | | 15.4 | 14.6 | 15.9 | (18)19×2×0.5 | | 22.5 | 21.8 | 23.0 |
| 5×2×1.5 | | 16.3 | 15.6 | 16.8 | (18)19×2×0.75 | | 25.1 | 23.4 | 25.6 |
| 5×2×2.5 | | 19.8 | 19.1 | 20.3 | (18)19×2×1.0 | | 26.9 | 25.2 | 27.4 |
| (6) 7×2×0.5 | | 14.6 | 13.6 | 15.3 | (18)19×2×1.5 | | 29.2 | 26.9 | 29.7 |
| (6) 7×2×0.75 | | 15.5 | 14.5 | 16.0 | (18)19×2×2.5 | | 34.9 | 32.8 | 35.4 |
| (6) 7×2×1.0 | | 16.2 | 15.2 | 17.0 | 24×2×0.5 | | 26.5 | 22.5 | 27.0 |
| (6) 7×2×1.5 | | 18.2 | 16.2 | 19.0 | 24×2×0.75 | | 28.1 | 26.1 | 29.2 |
| (6) 7×2×2.5 | | 21.0 | 19.8 | 21.5 | 24×2×1.0 | | 30.7 | 28.1 | 31.2 |
| 8×2×0.5 | | 16.0 | 15.0 | 16.5 | 24×2×1.5 | | 32.7 | 30.7 | 33.2 |
| 8×2×0.75 | | 17.0 | 16.0 | 18.0 | 24×2×2.5 | | 39.1 | 37.1 | 40.0 |
| 8×2×1.0 | | 18.3 | 17.2 | 19.2 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。

3、本样本电缆外径以聚乙烯绝缘为计算依据。

Note:1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.The outer diameter of cable in this catologue is calculated based on PE insulated cable.

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPVR DJVPVR DJYJPVR | DJYVPR DJVVPR DJYJVPR | DJYPVPR DJVPVPR DJYJPVPR | | | DJYPVR DJVPVR DJYJPVR | DJYVPR DJVVPR DJYJVPR | DJYPVPR DJVPVPR DJYJPVPR |
| 1×2×0.5 | 5 | 7.0 | 7.0 | / | 8×2×1.5 | 5 | 21.9 | 21.0 | 22.4 |
| 1×2×0.75 | | 7.7 | 7.7 | / | 8×2×2.5 | | 25.4 | 24.5 | 25.9 |
| 1×2×1.0 | | 8.2 | 8.2 | / | 10×2×0.5 | | 19.0 | 17.3 | 19.8 |
| 1×2×1.5 | | 9.0 | 9.0 | / | 10×2×0.75 | | 21.3 | 20.1 | 21.8 |
| 1×2×2.5 | | 10.2 | 10.2 | / | 10×2×1.0 | | 22.6 | 21.4 | 23.1 |
| 2×2×0.5 | | 11.0 | 10.5 | 11.5 | 10×2×1.5 | | 24.6 | 23.4 | 25.1 |
| 2×2×0.75 | | 11.9 | 11.3 | 12.8 | 10×2×2.5 | | 29.2 | 27.4 | 29.7 |
| 2×2×1.0 | | 13.0 | 12.2 | 13.5 | 12×2×0.5 | | 20.6 | 18.8 | 21.0 |
| 2×2×1.5 | | 14.1 | 13.7 | 14.6 | 12×2×0.75 | | 22.4 | 21.1 | 22.9 |
| 2×2×2.5 | | 16.3 | 15.9 | 16.8 | 12×2×1.0 | | 23.8 | 22.5 | 24.3 |
| 3×2×0.5 | | 12.0 | 11.2 | 12.8 | 12×2×1.5 | | 25.9 | 24.6 | 26.4 |
| 3×2×0.75 | | 13.4 | 12.9 | 13.9 | 12×2×2.5 | | 30.7 | 29.4 | 31.2 |
| 3×2×1.0 | | 14.2 | 13.7 | 14.7 | 14×2×0.5 | | 21.5 | 19.7 | 22.0 |
| 3×2×1.5 | | 15.4 | 14.9 | 15.9 | 14×2×0.75 | | 23.5 | 22.1 | 24.0 |
| 3×2×2.5 | | 18.4 | 17.4 | 18.9 | 14×2×1.0 | | 25.0 | 23.6 | 25.5 |
| 4×2×0.5 | | 13.3 | 11.9 | 14.0 | 14×2×1.5 | | 27.2 | 25.8 | 27.7 |
| 4×2×0.75 | | 14.6 | 14.0 | 15.1 | 14×2×2.5 | | 32.3 | 30.8 | 32.8 |
| 4×2×1.0 | | 15.5 | 14.9 | 16.0 | 16×2×0.5 | | 22.6 | 21.1 | 23.4 |
| 4×2×1.5 | | 16.8 | 16.2 | 17.3 | 16×2×0.75 | | 25.1 | 23.6 | 25.6 |
| 4×2×2.5 | | 20.1 | 19.5 | 20.6 | 16×2×1.0 | | 26.7 | 25.2 | 27.2 |
| 5×2×0.5 | | 14.3 | 13.1 | 15.0 | 16×2×1.5 | | 29.7 | 27.6 | 30.2 |
| 5×2×0.75 | | 15.5 | 14.9 | 16.0 | 16×2×2.5 | | 34.9 | 33.0 | 35.4 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5×2×1.0 | 5 | 16.5 | 15.9 | 17.0 | (18)19×2×0.5 | 5 | 23.8 | 21.0 | 24.5 |
| 5×2×1.5 | | 18.5 | 17.3 | 19.0 | (18)19×2×0.75 | | 27.3 | 25.0 | 27.8 |
| 5×2×2.5 | | 21.4 | 20.7 | 21.9 | (18)19×2×1.0 | | 29.7 | 26.5 | 30.2 |
| (6) 7×2×0.5 | | 15.0 | 14.1 | 16.0 | (18)19×2×1.5 | | 31.0 | 29.0 | 32.8 |
| (6)7×2×0.75 | | 16.1 | 15.5 | 16.6 | (18)19×2×2.5 | | 38.0 | 35.0 | 38.5 |
| (6) 7×2×1.0 | | 17.1 | 16.5 | 17.6 | 24×2×0.5 | | 27.6 | 24.5 | 28.2 |
| (6) 7×2×1.5 | | 19.2 | 18.5 | 19.7 | 24×2×0.75 | | 31.2 | 28.0 | 31.7 |
| (6) 7×2×2.5 | | 22.2 | 21.5 | 22.7 | 24×2×1.0 | | 33.2 | 30.0 | 33.7 |
| 8×2×0.5 | | 15.5 | 15.5 | 17.5 | 24×2×1.5 | | 36.6 | 32.5 | 37.1 |
| 8×2×0.75 | | 19.0 | 18.1 | 19.5 | 24×2×2.5 | | 41.0 | 38.5 | 40.5 |
| 8×2×1.0 | | 20.2 | 19.3 | 20.7 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；

3、B类导体的电缆外径略小于R类导体的电缆外径,约0.5~1mm范围内。

Note:

1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.The outer diameter of the cable of class B conductor is less than that of class R conductor, which is within the range of 0.5~1mm.

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPV22 DJVPV22 DJYJPV22 | DJYVP22 DJVVP22 DJYJVP22 | DJYPVP22 DJVPVP22 DJYJPVP22 | | | DJYPV22 DJVPV22 DJYJPV22 | DJYVP22 DJVVP22 DJYJVP22 | DJYPVP22 DJVPVP22 DJYJPVP22 |
| 1×2×0.5 | 1 | 10.4 | 10.4 | / | 8×2×1.5 | 1 | 22.5 | 22.0 | 23.4 |
| 1×2×0.75 | | 10.8 | 10.8 | / | 8×2×2.5 | | 26.5 | 25.4 | 27.3 |
| 1×2×1.0 | | 11.3 | 11.3 | / | 10×2×0.5 | | 21.1 | 19.9 | 21.6 |
| 1×2×1.5 | | 11.8 | 11.8 | / | 10×2×0.75 | | 22.6 | 21.5 | 23.1 |
| 1×2×2.5 | | 13.1 | 13.1 | / | 10×2×1.0 | | 23.5 | 22.8 | 24.4 |
| 2×2×0.5 | | 13.7 | 13.3 | 14.2 | 10×2×1.5 | | 25.2 | 24.1 | 25.7 |
| 2×2×0.75 | | 14.4 | 14.0 | 14.9 | 10×2×2.5 | | 29.5 | 29.1 | 30.7 |
| 2×2×1.0 | | 15.1 | 14.5 | 15.6 | 12×2×0.5 | | 22.0 | 20.7 | 22.5 |
| 2×2×1.5 | | 15.8 | 15.5 | 16.3 | 12×2×0.75 | | 23.6 | 22.4 | 24.1 |
| 2×2×2.5 | | 18.6 | 18.3 | 19.1 | 12×2×1.0 | | 25.0 | 23.8 | 25.5 |
| 3×2×0.5 | | 14.6 | 13.6 | 15.1 | 12×2×1.5 | | 26.0 | 25.2 | 27.3 |
| 3×2×0.75 | | 15.5 | 15.0 | 16.0 | 12×2×2.5 | | 31.0 | 30.4 | 32.6 |
| 3×2×1.0 | | 16.3 | 15.8 | 16.8 | 14×2×0.5 | | 22.9 | 21.5 | 23.4 |
| 3×2×1.5 | | 17.1 | 16.6 | 17.6 | 14×2×0.75 | | 24.5 | 23.3 | 25.0 |
| 3×2×2.5 | | 20.1 | 19.6 | 20.6 | 14×2×1.0 | | 26.0 | 24.8 | 26.9 |
| 4×2×0.5 | | 15.5 | 14.4 | 16.0 | 14×2×1.5 | | 29.0 | 26.7 | 28.4 |
| 4×2×0.75 | | 16.5 | 16.0 | 17.0 | 14×2×2.5 | | 32.5 | 31.7 | 33.9 |
| 4×2×1.0 | | 17.4 | 16.9 | 18.0 | 16×2×0.5 | | 24.2 | 22.7 | 24.7 |
| 4×2×1.5 | | 18.9 | 18.3 | 19.4 | 16×2×0.75 | | 26.1 | 24.6 | 27.0 |
| 4×2×2.5 | | 21.5 | 21.0 | 22.0 | 16×2×1.0 | | 28.1 | 26.2 | 29.2 |
| 5×2×0.5 | | 16.4 | 15.2 | 16.9 | 16×2×1.5 | | 30.3 | 28.2 | 30.8 |
| 5×2×0.75 | | 17.4 | 16.6 | 18.5 | 16×2×2.5 | | 35.5 | 34.5 | 36.5 |
| 5×2×1.0 | | 19.0 | 17.6 | 19.5 | (18)19×2×0.5 | | 26.4 | 24.3 | 26.9 |
| 5×2×1.5 | | 19.9 | 19.2 | 20.4 | (18)19×2×0.75 | | 29.1 | 26.8 | 29.6 |
| 5×2×2.5 | | 22.8 | 22.1 | 23.3 | (18)19×2×1.0 | | 30.9 | 29.2 | 31.4 |
| (6) 7×2×0.5 | | 17.9 | 17.1 | 18.4 | (18)19×2×1.5 | | 33.1 | 30.9 | 33.6 |
| (6) 7×2×0.75 | | 18.6 | 17.2 | 19.1 | (18)19×2×2.5 | | 38.8 | 38.0 | 39.7 |
| (6) 7×2×1.0 | | 19.6 | 18.8 | 20.1 | 24×2×0.5 | | 29.7 | 27.1 | 30.2 |
| (6) 7×2×1.5 | | 20.6 | 19.8 | 21.1 | 24×2×0.75 | | 32.1 | 31.0 | 33.1 |
| (6) 7×2×2.5 | | 23.6 | 22.8 | 24.1 | 24×2×1.0 | | 35.0 | 32.1 | 35.5 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8×2×0.5 | 1 | 19.3 | 18.3 | 19.8 | 24×2×1.5 | 1 | 38.5 | 35.0 | 37.5 |
| 8×2×0.75 | | 20.6 | 19.6 | 21.1 | 24×2×2.5 | | 45.5 | 41.6 | 44.1 |
| 8×2×1.0 | | 21.7 | 20.8 | 22.2 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；

3、钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增1～1.5mm。

Note:

1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.Outer diameter of cable with steel wire armor is added by 1～1.5mm on the basis of that with steel tape armor.

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPV DJVPV DJYJPV | DJYVP DJVVP DJYJVP | DJYPVP DJVPVP DJYJPVP | | | DJYPV DJVPV DJYJPV | DJYVP DJVVP DJYJVP | DJYPVP DJVPVP DJYJPVP |
| 1×3×0.5 | 1 | 6.8 | 6.8 | / | 8×3×1.5 | 1 | 22.0 | 21.0 | 22.5 |
| 1×3×0.75 | | 7.56 | 7.5 | / | 8×3×2.5 | | 25.7 | 24.7 | 26.2 |
| 1×3×1.0 | | 8.1 | 8.1 | / | 10×3×0.5 | | 19.9 | 18.6 | 20.4 |
| 1×3×1.5 | | 8.8 | 8.8 | / | 10×3×0.75 | | 21.8 | 20.6 | 22.5 |
| 1×3×2.5 | | 10.0 | 10.0 | / | 10×3×1.0 | | 23.3 | 22.0 | 23.8 |
| 2×3×0.5 | | 10.9 | 10.5 | 11.4 | 10×3×1.5 | | 25.1 | 23.8 | 25.6 |
| 2×3×0.75 | | 11.9 | 11.5 | 12.8 | 10×3×2.5 | | 30.0 | 28.1 | 30.5 |
| 2×3×1.0 | | 13.1 | 12.7 | 13.6 | 12×3×0.5 | | 20.9 | 19.5 | 21.4 |
| 2×3×1.5 | | 14.0 | 13.6 | 14.5 | 12×3×0.75 | | 22.8 | 21.5 | 23.3 |
| 2×3×2.5 | | 16.3 | 15.9 | 16.8 | 12×3×1.0 | | 24.4 | 23.0 | 24.9 |
| 3×3×0.5 | | 12.3 | 11.3 | 12.8 | 12×3×1.5 | | 26.3 | 24.9 | 26.8 |
| 3×3×0.75 | | 13.4 | 12.8 | 13.9 | 12×3×2.5 | | 31.4 | 30.1 | 31.9 |
| 3×3×1.0 | | 14.3 | 13.6 | 14.8 | 14×3×0.5 | | 21.8 | 20.3 | 22.3 |
| 3×3×1.5 | | 15.3 | 14.7 | 15.8 | 14×3×0.75 | | 23.9 | 22.4 | 26.5 |
| 3×3×2.5 | | 18.4 | 17.2 | 18.9 | 14×3×1.0 | | 25.5 | 24.0 | 26.0 |
| 4×3×0.5 | | 13.2 | 12.6 | 13.7 | 14×3×1.5 | | 27.5 | 26.0 | 28.0 |
| 4×3×0.75 | | 14.5 | 13.8 | 15.0 | 14×3×2.5 | | 32.9 | 31.4 | 33.4 |
| 4×3×1.0 | | 15.5 | 14.7 | 16.0 | 16×3×0.5 | | 23.2 | 21.6 | 23.7 |
| 4×3×1.5 | | 16.6 | 15.9 | 17.1 | 16×3×0.75 | | 25.4 | 23.8 | 25.9 |
| 4×3×2.5 | | 20.0 | 19.3 | 20.5 | 16×3×1.0 | | 27.2 | 25.5 | 27.7 |
| 5×3×0.5 | | 14.2 | 13.4 | 14.7 | 16×3×1.5 | | 29.9 | 27.6 | 30.4 |
| 5×3×0.75 | | 15.4 | 14.6 | 15.9 | 16×3×2.5 | | 35.5 | 32.4 | 36.0 |
| 5×3×1.0 | | 16.4 | 15.6 | 16.9 | (18)19×3×0.5 | | 25.1 | 23.2 | 25.6 |
| 5×3×1.5 | | 18.5 | 16.8 | 19.0 | (18)19×3×0.75 | | 27.5 | 25.7 | 28.0 |
| 5×3×2.5 | | 21.2 | 20.4 | 21.7 | (18)19×3×1.0 | | 30.0 | 27.6 | 30.5 |
| (6) 7×3×0.5 | | 15.1 | 14.2 | 15.6 | (18)19×3×1.5 | | 32.3 | 30.5 | 32.8 |
| (6) 7×3×0.75 | | 17.0 | 16.1 | 17.5 | (18)19×3×2.5 | | 38.4 | 36.6 | 38.9 |
| (6) 7×3×1.0 | | 18.8 | 17.2 | 19.3 | 24×3×0.5 | | 28.5 | 25.8 | 29.0 |
| (6) 7×3×1.5 | | 20.2 | 19.2 | 20.7 | 24×3×0.75 | | 31.2 | 29.1 | 31.7 |
| (6) 7×3×2.5 | | 23.5 | 22.6 | 24.0 | 24×3×1.0 | | 33.4 | 31.2 | 34.3 |
| 8×3×0.5 | | 17.6 | 15.9 | 18.1 | 24×3×1.5 | | 36.4 | 34.3 | 36.9 |
| 8×3×0.75 | | 19.2 | 17.6 | 19.7 | 24×3×2.5 | | 43.2 | 41.0 | 43.7 |
| 8×3×1.0 | | 20.5 | 19.4 | 21.0 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。

Note:

1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPVR DJVPVR DJYJPVR | DJYVPR DJVVPR DJYJVPR | DJYPVPR DJVPVPR DJYJPVPR | | | DJYPVR DJVPVR DJYJPVR | DJYVPR DJVVPR DJYJVPR | DJYPVPR DJVPVPR DJYJPVPR |
| 1×3×0.5 | 5 | 7.3 | 7.3 | - | 8×3×1.5 | 5 | 24.2 | 23.2 | 24.7 |
| 1×3×0.75 | | 8.0 | 8.0 | - | 8×3×2.5 | | 27.9 | 26.9 | 29.0 |
| 1×3×1.0 | | 8.6 | 8.6 | - | 10×3×0.5 | | 20.6 | 19.3 | 21.1 |
| 1×3×1.5 | | 9.3 | 9.3 | - | 10×3×0.75 | | 23.6 | 22.3 | 24.1 |
| 1×3×2.5 | | 10.5 | 10.5 | - | 10×3×1.0 | | 25.0 | 23.8 | 25.5 |
| 2×3×0.5 | | 11.3 | 10.9 | 11.8 | 10×3×1.5 | | 27.5 | 26.3 | 28.0 |
| 2×3×0.75 | | 13.2 | 12.8 | 13.7 | 10×3×2.5 | | 32.5 | 31.2 | 33.0 |
| 2×3×1.0 | | 14.0 | 13.5 | 14.5 | 12×3×0.5 | | 21.6 | 20.2 | 22.1 |
| 2×3×1.5 | | 15.3 | 14.9 | 15.8 | 12×3×0.75 | | 24.8 | 23.3 | 25.3 |
| 2×3×2.5 | | 17.6 | 17.2 | 18.7 | 12×3×1.0 | | 26.3 | 24.9 | 26.8 |
| 3×3×0.5 | | 12.7 | 11.7 | 13.2 | 12×3×1.5 | | 29.6 | 27.5 | 30.1 |
| 3×3×0.75 | | 14.4 | 13.9 | 14.9 | 12×3×2.5 | | 34.5 | 32.7 | 35.0 |
| 3×3×1.0 | | 15.2 | 14.7 | 15.7 | 14×3×0.5 | | 22.6 | 21.1 | 23.1 |
| 3×3×1.5 | | 16.7 | 16.2 | 17.2 | 14×3×0.75 | | 25.9 | 24.4 | 26.4 |
| 3×3×2.5 | | 19.8 | 19.3 | 20.3 | 14×3×1.0 | | 27.5 | 26.0 | 28.0 |
| 4×3×0.5 | | 13.7 | 13.0 | 14.2 | 14×3×1.5 | | 30.9 | 28.0 | 31.4 |
| 4×3×0.75 | | 15.6 | 15.0 | 16.1 | 14×3×2.5 | | 36.1 | 34.6 | 36.0 |
| 4×3×1.0 | | 16.5 | 15.9 | 17.0 | 16×3×0.5 | | 24.1 | 22.4 | 24.6 |
| 4×3×1.5 | | 18.7 | 17.5 | 19.2 | 16×3×0.75 | | 27.6 | 26.0 | 28.1 |
| 4×3×2.5 | | 21.5 | 20.9 | 22.0 | 16×3×1.0 | | 29.9 | 27.7 | 30.4 |
| 5×3×0.5 | | 14.7 | 13.9 | 15.2 | 16×3×1.5 | | 32.9 | 29.5 | 32.0 |
| 5×3×0.75 | | 16.6 | 15.9 | 17.1 | 16×3×2.5 | | 38.5 | 35.5 | 39.0 |
| 5×3×1.0 | | 17.6 | 16.9 | 18.7 | (18)19×3×0.5 | | 26.0 | 24.2 | 26.5 |
| 5×3×1.5 | | 19.7 | 19.2 | 20.4 | (18)19×3×0.75 | | 30.5 | 28.0 | 31.0 |
| 5×3×2.5 | | 22.9 | 22.2 | 23.4 | (18)19×3×1.0 | | 32.3 | 30.5 | 32.8 |
| (6) 7×3×0.5 | | 15.6 | 14.8 | 16.1 | (18)19×3×1.5 | | 36.0 | 31.5 | 34.5 |
| (6) 7×3×0.75 | | 19.1 | 17.5 | 19.6 | (18)19×3×2.5 | | 42.1 | 38.5 | 42.6 |
| (6) 7×3×1.0 | | 20.2 | 19.3 | 20.7 | 24×3×0.5 | | 29.6 | 26.8 | 30.1 |
| (6) 7×3×1.5 | | 22.2 | 21.2 | 22.7 | 24×3×0.75 | | 34.3 | 31.8 | 34.8 |
| (6) 7×3×2.5 | | 25.5 | 24.6 | 26.0 | 24×3×1.0 | | 36.4 | 33.0 | 36.9 |
| 8×3×0.5 | | 18.2 | 16.5 | 18.7 | 24×3×1.5 | | 40.5 | 35.5 | 39.0 |
| 8×3×0.75 | | 20.8 | 19.7 | 21.3 | 24×3×2.5 | | 47.5 | 43.0 | 46.5 |
| 8×3×1.0 | | 22.0 | 21.0 | 22.5 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；

3、B类导体的电缆外径略小于R类导体的电缆外径约0.5~1mm范围内。

Note:

1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.Outer diameter of cable with conductor of class B is smaller by 0.5~1mm than that of category R.

| 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | | 对数×芯数×导体标称截面 mm² Pair number* Core number* Nominal cross-section area | 导体种类 Conductor category | 电缆计算外径 mm Calculated outer diameter of cable | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DJYPV22 DJVPV22 DJYJPV22 | DJYVP22 DJVVP22 DJYJVP22 | DJYPVP22 DJVPVP22 DJYJPVP22 | | | DJYPV22 DJVPV22 DJYJPV22 | DJYVP22 DJVVP22 DJYJVP22 | DJYPVP22 DJVPVP22 DJYJPVP22 |
| 1×3×0.5 | 1 | 10.8 | 10.8 | - | 8×3×1.5 | 1 | 25.0 | 24.0 | 25.5 |
| 1×3×0.75 | | 11.1 | 11.1 | - | 8×3×2.5 | | 29.7 | 28.1 | 30.2 |
| 1×3×1.0 | | 11.6 | 11.6 | - | 10×3×0.5 | | 23.8 | 22.5 | 24.3 |
| 1×3×1.5 | | 12.3 | 12.3 | - | 10×3×0.75 | | 24.8 | 23.6 | 25.3 |
| 1×3×2.5 | | 13.5 | 13.5 | - | 10×3×1.0 | | 26.7 | 25.0 | 27.2 |
| 2×3×0.5 | | 14.9 | 14.5 | 15.4 | 10×3×1.5 | | 29.1 | 27.2 | 29.6 |
| 2×3×0.75 | | 15.3 | 14.9 | 15.8 | 10×3×2.5 | | 33.4 | 32.1 | 34.3 |
| 2×3×1.0 | | 16.1 | 15.7 | 16.6 | 12×3×0.5 | | 24.8 | 23.4 | 25.3 |
| 2×3×1.5 | | 17.0 | 16.6 | 17.5 | 12×3×0.75 | | 25.8 | 24.5 | 26.3 |
| 2×3×2.5 | | 19.9 | 19.5 | 20.4 | 12×3×1.0 | | 27.8 | 26.0 | 28.9 |
| 3×3×0.5 | | 15.9 | 15.3 | 16.4 | 12×3×1.5 | | 30.3 | 28.3 | 30.8 |
| 3×3×0.75 | | 16.4 | 15.8 | 16.9 | 12×3×2.5 | | 35.2 | 33.5 | 36.2 |
| 3×3×1.0 | | 17.3 | 16.6 | 18.4 | 14×3×0.5 | | 26.2 | 24.3 | 26.7 |
| 3×3×1.5 | | 18.9 | 18.3 | 19.4 | 14×3×0.75 | | 27.3 | 25.4 | 27.8 |
| 3×3×2.5 | | 21.4 | 20.8 | 21.9 | 14×3×1.0 | | 29.5 | 27.4 | 30.0 |
| 4×3×0.5 | | 16.9 | 16.2 | 17.4 | 14×3×1.5 | | 31.5 | 30.0 | 32.0 |
| 4×3×0.75 | | 17.5 | 16.8 | 18.6 | 14×3×2.5 | | 37.2 | 35.2 | 37.7 |
| 4×3×1.0 | | 19.1 | 18.3 | 19.6 | 16×3×0.5 | | 27.7 | 25.6 | 28.2 |
| 4×3×1.5 | | 20.2 | 19.5 | 20.7 | 16×3×0.75 | | 29.4 | 27.2 | 29.9 |
| 4×3×2.5 | | 23.0 | 22.3 | 23.5 | 16×3×1.0 | | 31.2 | 29.5 | 31.7 |
| 5×3×0.5 | | 18.5 | 17.1 | 19.0 | 16×3×1.5 | | 33.3 | 31.6 | 33.8 |
| 5×3×0.75 | | 19.0 | 17.6 | 19.5 | 16×3×2.5 | | 39.8 | 37.7 | 40.3 |
| 5×3×1.0 | | 20.0 | 19.2 | 20.5 | (18)19×3×0.5 | | 30.2 | 27.8 | 30.7 |
| 5×3×1.5 | | 21.2 | 20.4 | 21.7 | (18)19×3×0.75 | | 31.5 | 29.7 | 32.0 |
| 5×3×2.5 | | 24.2 | 23.4 | 24.7 | (18)19×3×1.0 | | 33.4 | 31.6 | 34.3 |
| (6) 7×3×0.5 | | 19.4 | 18.6 | 19.9 | (18)19×3×1.5 | | 36.6 | 34.3 | 37.1 |
| (6)7×3×0.75 | | 20.6 | 19.7 | 21.1 | (18)19×3×2.5 | | 42.9 | 41.1 | 43.4 |
| (6) 7×3×1.0 | | 21.8 | 20.8 | 22.3 | 24×3×0.5 | | 33.6 | 31.0 | 34.1 |
| (6) 7×3×1.5 | | 23.2 | 22.2 | 23.7 | 24×3×0.75 | | 35.0 | 32.5 | 36.0 |
| (6) 7×3×2.5 | | 26.9 | 25.6 | 27.4 | 24×3×1.0 | | 37.7 | 35.0 | 38.2 |
| 8×3×0.5 | | 21.4 | 20.3 | 21.9 | 24×3×1.5 | | 40.9 | 38.2 | 41.4 |
| 8×3×0.75 | | 22.2 | 21.2 | 22.7 | 24×3×2.5 | | 48.1 | 45.7 | 48.6 |
| 8×3×1.0 | | 23.5 | 22.4 | 24.0 | / | | / | / | / |

备注：

1、铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围；

2、铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑；

3、钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增加1～1.5mm。

Note:

1.Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.

2.Outer diameter of cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

3.Outer diameter of cable with steel wire armor is added by 1~1.5mm on the basis of that with steel tape armor.

# 电气装备用电缆 Cable for electrical Equipment





聚氯乙烯绝缘电缆（电线）

Cable(wire)with PVC Insulation

通用橡套软电缆

Soft Rubber Sheath Cable for General Purpose

电焊机电缆

Arc Welding electrode cables

# 聚氯乙烯绝缘电缆（电线）

## Cable(wire)with PVC Insulation

该类产品中B系列产品适用于交流额定电压450/750V及以下的动力装置固定敷设用；R系列产品适用于交流额定电压300/500V及以下的家用电器，小型电动工具、仪器、仪表及动力照明用铜芯聚氯乙烯绝缘连接软电缆（电线）。

B series of the product are used for fixed laying in powerplant of A.C rated voltage 450/750V or lower; R series of soft connection cable (wire) with cu core, PVC insulation.It is that suitable for household appliances, small electric tools, instruments and power lighting, with up to and including of AC rated voltage 300/500V.

### 一、生产执行标准

GB/T5023.1~7-2008等同采用IEC60227，JB/T8734.1~5-2016。

### Executive standard

GB/T5023.1~7-2008(equal to IEC60227),JB/T8734.1~5-2016.

### 二、分类和型号

0-固定布线用无护套电缆；
01-一般用途单芯硬导体无护套电缆（60227IEC01）；
02-一般用途单芯软导体无护套电缆（60227IEC02）；
05-内部布线用导体温度为70℃的单芯实心导体无护套电缆（60227IEC05）；
06-内部布线用导体温度为70℃的单芯软导体无护套电缆（60227IEC06）；
07-内部布线用导体温度为90℃的单芯实心导体无护套电缆（60227IEC07）；
08-内部布线用导体温度为90℃的单芯软导体无护套电缆（60227IEC08）；
1-固定布线用护套电缆；
10-轻型聚氯乙烯护套电缆（60227IEC10）；
5-一般用途护套软电缆；
52-轻型聚氯乙烯护套软线（60227IEC52）；
53-普通聚氯乙烯护套软线（60227IEC53）。

### Classication and Type as follows

0-Non-sheathed cable for fixed wiring
01-Single-core non-sheathed cable with rigid conductor for general purposes (60227IEC01)
02-Single-core non-sheathed cable with flexible conductor for general purposes (60227IEC02)
05-Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 70℃ ) (60227IEC05)
06-Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 70℃ ) (60227IEC06)
07-Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 90℃ ) (60227IEC07)
08-Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 90℃ ) (60227IEC08)
1-Cable with sheath for permanent wiring
10-Light PVC-sheathed cable (60227IEC10)
5-Flexible cable with sheath for general purpose
52-Light PVC-sheathed flexible wire (60227IEC52)
53-Ordinary (PVC-)sheathed flexible wire (60227IEC53)

### 三、产品型号中各字母代表意义

1、按用途分
固定敷设用电缆（电线）…… B
连接用软电缆（电线）…… R
装饰照明用软线 …… S
2、按材料特性分
铜导体 …… 省略
聚氯乙烯绝缘 …… V
聚氯乙烯护套 …… V
耐油聚氯乙烯护套 …… VY
3、按结构特性分
圆形 …… 省略
扁形（平形）…… B
双绞型 …… S
屏蔽型 …… P
软结构 …… R
4、按耐热特性分
70℃ …… 省略
90℃ …… 90

### Code Meaning

1.Classified by usage
Cable (wire) for fixed installation …… B
Flexible cable (wire) for connection …… R
Flexible wire for decorated lighting …… S
2.Classified by material performance
Cu conductor ……Omitted
PVC insulation …… V
PVC sheath…… V
Oil resistant PVC sheath …… VY
3.Classified by structure character
Round type ……Omitted
Flat type …… B
Twinsted-pair type …… S
Shielding type …… P
Soft structure …… R
4. Classified by heat resistant performance
70℃ …… Omitted
90℃ ……90

## 四、型号名称及相应执行标准　Type, Description and Relevant Executive Standard

| 型号 Type | 名称 Description | 芯数 Core number | 生产范围mm² Production scope | 额定电压（V） Rated voltage | 执行标准 Executive standard |
|---|---|---|---|---|---|
| 60227IEC01 (BV) | 一般用途单芯硬导体无护套电缆 Single-core non-sheathed cable with rigid conductor for general purposes | 1 | 1.5~240 | 450/750 | GB/T5023.3 |
| 60227IEC02 (RV) | 一般用途单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for general purposes | 1 | 1.5~240 | 450/750 | |
| 60227IEC05 (BV) | 内部布线用导体温度为70℃的单芯实心导体无护套电缆 Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 70℃) | 1 | 0.5~1.0 | 300/500 | |
| 60227IEC06 (RV) | 内部布线用导体温度为70℃的单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 70℃) | 1 | 0.5~1.0 | 300/500 | |
| 60227IEC07 (BV-90) | 内部布线用导体温度为90℃的单芯实心导体无护套电缆 Single-core non-sheathed cable with solid conductor for internal wiring. (conductor temperature is 90℃) | 1 | 0.5~2.5 | 300/500 | |
| 60227IEC08 (RV-90) | 内部布线用导体温度为90℃的单芯软导体无护套电缆 Single-core non-sheathed cable with flexible conductor for internal wiring. (conductor temperature is 90℃) | 1 | 0.5~2.5 | 300/500 | |
| 60227IEC10 (BVV) | 轻型聚氯乙烯护套电缆 Light PVC-sheathed cable | 2~5 | 1.5~35 | 300/500 | GB/T5023.4 |
| 60227IEC52 (RVV) | 轻型聚氯乙烯护套软线 Light PVC-sheathed flexible wire | 2、3 | 0.5、0.75 | 300/300 | GB/T5023.5 |
| 60227IEC53 (RVV) | 普通聚氯乙烯护套软线 Ordinary (PVC-)sheathed flexible wire | 2~5 | 0.75~2.5 | 300/500 | |
| BV | 铜芯聚氯乙烯绝缘电线 Wire with cu core, PVC insulation | 1 | 0.75、1.0 | 300/500 | JB/T 8734.2 |
| BLV | 铝芯聚氯乙烯绝缘电线 Wire with aluminum core, PVC insulation | 1 | 2.5~400 | 450/750 | |
| BVR | 铜芯聚氯乙烯绝缘软电线 Flexible wire with cu core, PVC insulation | 1 | 2.5~185 | 450/750 | |
| BVV | 铜芯聚氯乙烯绝缘护套圆形电缆 Round type cable with Cu core, PVC insulation and sheath | 1 | 0.75~185 | 300/500 | |
| BLVV | 铝芯聚氯乙烯绝缘护套圆形电缆 Round type cable with aluminum core, PVC insulation and sheath | 1 | 2.5~185 | 300/500 | |
| BVVB | 铜芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with Cu core, PVC insulation and sheath | 2、3 | 0.75~10 | 300/500 | |
| BLVVB | 铝芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with aluminum core, PVC insulation and sheath | 2、3 | 2.5~10 | 300/500 | |
| RVVP | 铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电缆（线） Flexible cable (wire) with Cu core, PVC insulation and shielding, PVC sheath | 1~26 | 0.12-4.0 | 300/300 | JB/T8734.5 |
| RVV | 铜芯聚氯乙烯绝缘聚氯乙烯护套软电线 Flexible wire with cu core, PVC insulation, PVC sheath | 2 | 1.5~10 | 300/500 | JB/T8734.3 |
| | | 3~5 | 4~10 | | |
| | | 6~41 | 0.5~2.5 | | |
| RVS | 铜芯聚氯乙烯绝缘绞型连接用软电线 PVC insulated twisted type connection flexible wire | 2 | 0.5~0.6 | 300/300 | JB/T8734.3 |

## 五、工作条件

1、长期允许工作温度应不超过：BV-90、RV-90型导体最高温度为90℃，其他型号为70℃。

2、电缆（线）敷设时温度应不低于0℃。

3、推荐的允许弯曲半径： 电缆外径＜25mm，应不小于4倍的电缆外径；电缆外径≥25mm，应不小于6倍的电缆外径。

## Working Condition

1.Max conductor temperature for long-term working is 90℃ for BV-90、RV-90 type cable and 70℃ for other types.
2.Ambient temperature for installing cable(wire)shall be no lower than 0℃.
3.Recommended bending radius:
It is no less than 4 times of cable OD when cable OD is less than 25mm.
It is no less than 6 times of cable OD when cable OD is no less than 25mm.

## 六、规格尺寸（部分）

## Specication and Size (part)

**60227IEC01（BV）**

| 导体标称截面mm² Nominal cross section area | 导体种类 Conductor category | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|---|
| 1.5 | 1 | 0.7 | 3.2 | 0.011 |
| 1.5 | 2 | 0.7 | 3.3 | 0.010 |
| 2.5 | 1 | 0.8 | 3.9 | 0.010 |
| 2.5 | 2 | 0.8 | 4.0 | 0.009 |
| 4 | 1 | 0.8 | 4.4 | 0.0085 |
| 4 | 2 | 0.8 | 4.6 | 0.0077 |
| 6 | 1 | 0.8 | 5.0 | 0.0070 |
| 6 | 2 | 0.8 | 5.2 | 0.0065 |
| 10 | 1 | 1.0 | 6.4 | 0.0070 |
| 10 | 2 | 1.0 | 6.7 | 0.0065 |
| 16 | 2 | 1.0 | 7.8 | 0.0050 |
| 25 | 2 | 1.2 | 9.7 | 0.0050 |
| 35 | 2 | 1.2 | 10.9 | 0.0043 |
| 50 | 2 | 1.4 | 12.8 | 0.0043 |
| 70 | 2 | 1.4 | 14.6 | 0.0035 |
| 95 | 2 | 1.6 | 17.1 | 0.0035 |
| 120 | 2 | 1.6 | 18.8 | 0.0032 |
| 150 | 2 | 1.8 | 20.9 | 0.0032 |
| 185 | 2 | 2.0 | 23.3 | 0.0032 |
| 240 | 2 | 2.2 | 26.6 | 0.0032 |
| 300 | 2 | 2.4 | 29.6 | 0.0030 |
| 400 | 2 | 2.6 | 33.0 | 0.0028 |

**60227IEC02（RV）**

| 导体标称截面mm² Nominal cross section area | 导体种类 Conductor category | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|---|
| 1.5 | 5 | 0.7 | 3.4 | 0.010 |
| 2.5 | 5 | 0.8 | 4.1 | 0.009 |
| 4 | 5 | 0.8 | 4.8 | 0.007 |
| 6 | 5 | 0.8 | 5.3 | 0.006 |
| 10 | 5 | 1.0 | 6.8 | 0.0056 |
| 16 | 5 | 1.0 | 8.1 | 0.0046 |
| 25 | 5 | 1.2 | 10.2 | 0.0044 |
| 35 | 5 | 1.2 | 11.7 | 0.0038 |
| 50 | 5 | 1.4 | 13.9 | 0.0037 |
| 70 | 5 | 1.4 | 16.0 | 0.0032 |
| 95 | 5 | 1.6 | 18.2 | 0.0032 |
| 120 | 5 | 1.6 | 20.2 | 0.0029 |
| 150 | 5 | 1.8 | 22.5 | 0.0029 |
| 185 | 5 | 2.0 | 24.9 | 0.0029 |
| 240 | 5 | 2.2 | 28.4 | 0.0028 |

### 60227IEC05（BV）

| 导体标称截面mm² Nominal cross section area | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|
| 0.5 | 0.6 | 2.3 | 0.015 |
| 0.75 | 0.6 | 2.5 | 0.012 |
| 1.0 | 0.6 | 2.7 | 0.011 |

### 60227IEC06（RV）

| 导体标称截面mm² Nominal cross section area | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|
| 0.5 | 0.6 | 2.5 | 0.013 |
| 0.75 | 0.6 | 2.7 | 0.011 |
| 1.0 | 0.6 | 2.8 | 0.010 |

### 60227IEC07（BV-90）

| 导体标称截面mm² Nominal cross section area | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|
| 0.5 | 0.6 | 2.3 | 0.015 |
| 0.75 | 0.6 | 2.5 | 0.013 |
| 1.0 | 0.6 | 2.7 | 0.012 |
| 1.5 | 0.7 | 3.2 | 0.011 |
| 2.5 | 0.8 | 3.9 | 0.009 |

### 60227IEC08（RV-90）

| 导体标称截面mm² Nominal cross section area | 绝缘厚度标称值mm Nominal insulated thickness | 外径上限mm Max. outer diameter | 70℃时最小绝缘电阻MΩ.km Min insulated resistance at 70℃ |
|---|---|---|---|
| 0.5 | 0.6 | 2.5 | 0.013 |
| 0.75 | 0.6 | 2.7 | 0.012 |
| 1.0 | 0.6 | 2.8 | 0.010 |
| 1.5 | 0.7 | 3.4 | 0.009 |
| 2.5 | 0.8 | 4.1 | 0.009 |

注：其它规格结构及技术参数请参见GB5023-2008或JB/T8734-2016标准。

Note: Please refer to GB5023-2008 or JB/T8734-2016 standard for other specification and technical parameter.

## 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

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 通用橡套软电缆

## Soft Rubber Sheath Cable for General Purpose

本产品适用于交流额定电压450/750V及以下的家用电器、电动工具和各种移动电气设备。

It is used for household electrical appliance, electrical tools and various mobile electrical equipments with AC rated voltage to and including 450/750V.

### 一、生产执行标准

GB/T 5013-2008，JB/T 8735-2016。

### Executive standard

GB/T 5013-2008，JB/T 8735-2016.

### 二、使用特性

1、额定电压:YZ、YZW型为300/500V、YC、YCW型为450/750V；

2、电缆允许工作温度应不超过65℃。

### Operational performance

1.Rated voltage 300/500V for YZ and YZW type， 450/750V for YC and YCW type.

2.Working temperature allowed by cable shall not exceed 65℃.

### 三、型号及名称及主要用途

### Type, Description and Main Application

| 型号 Type | 名称 Description | 主要用途 Main application |
|---|---|---|
| 60245 IEC 53(YZ) | 普通强度橡套软线<br>Ordinary tough rubber sheathed core | 用于各种移动电器设备和工具<br>For varlous mobile electric devices and tools |
| 60245 IEC 57(YZW) | 普通氯丁或其他相当的合成弹性橡套软线<br>Ordinary polychloroprene or other equivalent synthetic elastomer sheathed cables | 用于各种移动电器设备和工具<br>For varlous mobile electric devices and tools |
| YZ<br>YZW | 中型橡套软电缆<br>General type rubber sheath soft cable | 用于各种移动电器设备和工具<br>For varlous mobile electric devices and tools |
| 60245 IEC 66(YCW) | 重型氯丁或其他相当的合成弹性体橡套软电缆<br>Heavy polychloroprene or other equivalent synthetic elastomer sheathed flexible cables | 用于各种移动电器设备，能承受较大的机械外力作用<br>Used for various portable electric equipment which can bear larger mechanical force effect. |
| YC<br>YCW | 重型橡套软电缆<br>Heavy type rubber sheath soft cable | 用于各种移动电器设备，能承受较大的机械外力作用<br>Used for various portable electric equipment which can bear larger mechanical force effect. |

### 四、规格范围

### Specication Range

| 型号<br>Type | 额定电压V<br>Rated voltage | 芯数<br>Core number | 标称截面mm²<br>Nominal cross section area |
|---|---|---|---|
| 60245IEC53（YZ） | 300/500 | 2~5 | 0.75~2.5 |
| 60245IEC57（YZW） | 300/500 | 2~5 | 0.75~2.5 |
| 60245IEC66（YZW） | 450/750 | 1 | 1.5~240 |
| | | 2 | 1.0~25 |
| | | 3 | 1.0~95 |
| | | 4 | 1.0~150 |
| | | 5 | 1.0~25 |
| YZ | 300/500 | 2~5 | 4~6 |
| | | 6 | 0.75~6 |
| YZW | 300/500 | 2~5 | 4~6 |
| | | 6 | 0.75~6 |
| YC | 450/750 | 1 | 1.5~240 |
| | | 2 | 1.5~95 |
| | | 3~4 | 1.5~150 |
| | | 5 | 1.5~25 |
| | | 3+1 | 2.5~150 |
| YCW | 450/750 | 2 | 35~95 |
| | | 3 | 120~150 |
| | | 3+1 | 2.5~150 |

## 五、规格尺寸及技术参数如下表

Specification , Size and Technical Parameter

**Table 3 60245 IEC 53(YZ) 60245 IEC 57(YZW)**

| 标称截面 mm² Nominal cross section area | 最大单丝直径（mm） Max.diameter of single wire | 20℃导体电阻≤Ω/km Conductor resistance at 20℃ | 电缆外径参考 Cable OD for reference | | | |
|---|---|---|---|---|---|---|
| | | | 2芯 2cores | 3芯 3cores | 4芯 4cores | 5芯 5cores |
| 0.75 | 0.21 | 26.0 | 5.7~7.4 | 6.2~8.1 | 6.8~8.8 | 7.6~9.9 |
| 1.0 | 0.21 | 19.5 | 6.1~8.0 | 6.5~8.5 | 7.1~9.3 | 8.0~10.3 |
| 1.5 | 0.26 | 13.3 | 7.6~9.8 | 8.0~10.4 | 9.0~11.6 | 9.8~12.7 |
| 2.5 | 0.26 | 7.98 | 9.0~11.6 | 9.6~12.4 | 10.7~13.8 | 11.9~15.3 |

**Table 4 60245IEC 66(YCW)**

| 标称截面 mm² Nominal cross section area | 最大单丝直径（mm） Max.diameter of single wire | 20℃导体电阻≤Ω/km Conductor resistance at 20℃ | 电缆外径参考 Cable OD for reference | | | | |
|---|---|---|---|---|---|---|---|
| | | | 1芯 1cores | 2芯 2cores | 3芯 3cores | 4芯 4cores | 5芯 5cores |
| 1.0 | 0.21 | 19.5 | - | 7.7~10.0 | 8.3~8.8 | 9.2~11.9 | 10.2~13.1 |
| 1.5 | 0.26 | 13.3 | 5.7~7.1 | 8.5~11.0 | 9.2~11.9 | 10.2~13.1 | 11.2~14.4 |
| 2.5 | 0.26 | 7.98 | 6.3~7.9 | 10.2~13.1 | 10.9~14.0 | 12.1~15.5 | 13.3~17.0 |
| 4 | 0.31 | 4.95 | 7.2~9.0 | 11.8~15.1 | 12.7~16.2 | 14.0~17.9 | 15.6~19.9 |
| 6 | 0.31 | 3.30 | 7.9~9.8 | 13.1~16.8 | 14.0~18.0 | 15.7~20.0 | 17.5~22.2 |
| 10 | 0.41 | 1.91 | 9.5~11.9 | 17.7~22.6 | 19.1~24.2 | 20.9~26.5 | 22.9~29.1 |
| 16 | 0.41 | 1.21 | 10.8~13.4 | 20.2~25.7 | 21.8~27.6 | 23.8~30.1 | 26.4~33.3 |
| 25 | 0.41 | 0.780 | 12.7~15.8 | 24.3~30.7 | 26.0~33.0 | 28.9~36.6 | 32.0~40.4 |
| 35 | 0.41 | 0.554 | 14.3~17.9 | - | 29.3~37.1 | 32.5~41.1 | - |
| 50 | 0.41 | 0.386 | 16.5~20.6 | - | 34.1~42.9 | 37.7~47.5 | - |
| 70 | 0.51 | 0.272 | 18.6~23.3 | - | 38.4~48.3 | 42.7~54.0 | - |
| 95 | 0.51 | 0.206 | 20.8~26.0 | - | 43.3~54.0 | 48.4~61.0 | - |
| 120 | 0.51 | 0.161 | 22.8~28.6 | - | - | 53.0~66.0 | - |
| 150 | 0.51 | 0.129 | 25.0~31.4 | - | - | 58.0~73.0 | - |
| 185 | 0.51 | 0.106 | 27.6~34.4 | - | - | - | - |
| 240 | 0.51 | 0.0801 | 30.6~38.3 | - | - | - | - |

**Table 5 YZ、YZW中型300/500V橡套电缆 YZ、YZW 300/500 Medium rubber insulated cable**

| 芯数*标称截面 (mm²) No.*nominal cross section area | 最大单丝直径 (mm) Max.diameter of single wire | 绝缘厚度规定值 (mm) Nominal thickness of insulation | 护套厚度 (mm) Sheath thickness | 外径范围 (mm) Range of outer diameter | 20℃导体电阻≤Ω/km Conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|
| | | | | | 铜芯 Copper core | 镀锡铜芯 Tinned copper core |
| 2*4 | 0.31 | 1.0 | 1.2 | 10.6~13.7 | 4.95 | 5.09 |
| 2*6 | 0.31 | 1.0 | 1.3 | 11.8~15.1 | 3.30 | 3.39 |
| 3*4 | 0.31 | 1.0 | 1.2 | 11.3~14.5 | 4.95 | 5.09 |
| 3*6 | 0.31 | 1.0 | 1.3 | 12.6~16.1 | 3.30 | 3.39 |
| 4*4 | 0.31 | 1.0 | 1.3 | 12.7~16.2 | 4.95 | 5.09 |
| 4*6 | 0.31 | 1.0 | 1.4 | 14.0~17.9 | 3.30 | 3.39 |
| 3*1.5+1*1 | 0.26/0.21 | 0.8/0.6 | 1.1 | 8.6~11.2 | 13.3/19.5 | 13.7/20.0 |
| 3*2.5+1*1.5 | 0.26/0.26 | 0.9/0.8 | 1.2 | 10.4~13.3 | 7.98/13.3 | 8.21/13.7 |
| 3*4+1*2.5 | 0.31/0.26 | 1.0/0.9 | 1.3 | 12.3~15.7 | 4.95/7.98 | 5.09/8.21 |
| 3*6+1*4 | 0.31/0.31 | 1.0/1.0 | 1.4 | 13.7~17.5 | 3.30/4.95 | 3.39/5.09 |
| 5*4 | 0.31 | 1.0 | 1.4 | 14.1~17.9 | 4.95 | 5.09 |
| 5*6 | 0.31 | 1.0 | 1.6 | 15.7~20.0 | 3.30 | 3.39 |
| 3*1.5+2*1 | 0.26/0.31 | 0.8/0.6 | 1.1 | 9.2~11.8 | 13.3/19.5 | 13.7/20.0 |
| 3*2.5+2*1.5 | 0.26/0.26 | 0.9/0.8 | 1.2 | 11.1~14.2 | 7.98/13.3 | 8.21/13.7 |
| 3*4+2*2.5 | 0.31/0.26 | 1.0/0.9 | 1.3 | 13.3~17.0 | 4.95/7.98 | 5.09/3.21 |
| 3*6+2*4 | 0.31/0.31 | 1.0/1.1 | 1.4 | 15.0~19.2 | 3.30/4.95 | 3.39/5.09 |
| 4*1.5+1*1 | 0.26/0.21 | 0.8/0.6 | 1.1 | 9.5~12.3 | 13.3/19.5 | 13.7/20.0 |
| 4*2.5+1*1.5 | 0.26/0.26 | 0.9/0.8 | 1.2 | 11.4~14.6 | 7.98/13.3 | 8.21/13.7 |
| 4*4+1*2.5 | 0.31/0.26 | 1./0.90 | 1.4 | 13.7~17.5 | 4.95/7.98 | 5.09/8.21 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4*6+1*4 | 0.31/0.31 | 1.0/1.0 | 1.5 | 15.3~19.5 | 3.30/4.95 | 3.39/5.09 |
| 6*0.75 | 0.21 | 0.6 | 1.0 | 8.2~10.7 | 26.0 | 26.7 |
| 6*1 | 0.21 | 0.6 | 1.1 | 8.7~11.5 | 19.5 | 20.0 |
| 6*1.5 | 0.26 | 0.8 | 1.2 | 10.9~14.0 | 13.3 | 13.7 |
| 6*2.5 | 0.26 | 0.9 | 1.4 | 13.2~16.9 | 7.98 | 8.21 |
| 6*4 | 0.31 | 1.0 | 1.5 | 15.5~19.8 | 4.95 | 5.09 |
| 6*6 | 0.31 | 1.0 | 1.7 | 17.4~22.1 | 3.30 | 3.39 |

**Table 6 YC重型450/750V橡套软电缆 YC450/750V heavy rubber insulated flexible cable**

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 1×1 | 0.21 | 0.8 | 1.3 | - | - | 5.2 | 6.5 | 19.5 | 20.0 |
| 1×1.5 | 0.26 | 0.8 | 1.4 | - | - | 5.7 | 7.1 | 13.3 | 13.7 |
| 1×2.5 | 0.26 | 0.9 | 1.4 | - | - | 6.3 | 7.9 | 7.98 | 8.21 |
| 1×4 | 0.31 | 1.0 | 1.5 | - | - | 7.2 | 9.0 | 4.95 | 5.09 |
| 1×6 | 0.31 | 1.0 | 1.6 | - | - | 7.9 | 9.8 | 3.30 | 3.39 |
| 1×10 | 0.41 | 1.2 | 1.8 | - | - | 9.5 | 11.9 | 1.91 | 1.95 |
| 1×16 | 0.41 | 1.2 | 1.9 | - | - | 10.8 | 13.4 | 1.21 | 1.24 |
| 1×25 | 0.41 | 1.4 | 2.0 | - | - | 12.7 | 15.8 | 0.780 | 0.795 |
| 1×35 | 0.41 | 1.4 | 2.2 | - | - | 14.3 | 17.9 | 0.554 | 0.565 |
| 1×50 | 0.41 | 1.6 | 2.4 | - | - | 16.5 | 20.6 | 0.386 | 0.393 |
| 1×70 | 0.51 | 1.6 | 2.6 | - | - | 18.6 | 23.3 | 0.272 | 0.277 |
| 1×95 | 0.51 | 1.8 | 2.8 | - | - | 20.8 | 26.0 | 0.206 | 0.210 |
| 1×120 | 0.51 | 1.8 | 3.0 | - | - | 22.8 | 28.6 | 0.161 | 0.164 |
| 1×150 | 0.51 | 2.0 | 3.2 | - | - | 25.2 | 31.4 | 0.129 | 0.132 |
| 1×185 | 0.51 | 2.2 | 3.4 | - | - | 27.6 | 34.4 | 0.106 | 0.108 |
| 1×240 | 0.51 | 2.4 | 3.5 | - | - | 30.6 | 38.3 | 0.0801 | 0.0817 |
| 1×300 | 0.51 | 2.6 | 3.6 | - | - | 33.5 | 41.9 | 0.0641 | 0.0654 |
| 1×400 | 0.51 | 2.8 | 3.8 | - | - | 37.4 | 46.8 | 0.0486 | 0.0495 |
| 2×1 | 0.21 | 0.8 | 1.3 | - | - | 7.7 | 10.0 | 19.5 | 20.0 |
| 2×1.5 | 0.26 | 0.8 | 1.5 | - | - | 8.5 | 11.0 | 13.3 | 13.7 |
| 2×2.5 | 0.26 | 0.9 | 1.7 | - | - | 10.2 | 13.1 | 7.98 | 8.21 |
| 2×5 | 0.31 | 1.0 | 1.8 | - | - | 11.8 | 15.1 | 4.95 | 5.09 |
| 2×6 | 0.31 | 1.0 | 2.0 | - | - | 13.1 | 16.8 | 3.30 | 3.39 |
| 2×10 | 0.41 | 1.2 | 3.1 | - | - | 17.7 | 22.6 | 1.91 | 1.95 |
| 2×16 | 0.41 | 1.2 | 3.3 | 1.3 | 2.0 | 20.2 | 25.7 | 1.21 | 1.24 |
| 2×25 | 0.41 | 1.4 | 3.6 | 1.4 | 2.2 | 24.3 | 30.7 | 0.780 | 0.795 |
| 2×35 | 0.41 | 1.4 | 3.9 | 1.5 | 2.4 | 27.3 | 34.6 | 0.554 | 0.565 |
| 2×50 | 0.41 | 1.6 | 4.3 | 1.7 | 2.6 | 31.8 | 40.1 | 0.386 | 0.393 |
| 2×70 | 0.51 | 1.6 | 4.6 | 1.8 | 2.8 | 35.8 | 45.1 | 0.272 | 0.277 |
| 2×95 | 0.51 | 1.8 | 5.0 | 2.0 | 3.0 | 40.2 | 51.0 | 0.206 | 0.210 |
| 3×1 | 0.21 | 0.8 | 1.4 | - | - | 8.3 | 10.7 | 19.5 | 20.0 |
| 3×1.5 | 0.26 | 0.8 | 1.6 | - | - | 9.2 | 11.9 | 13.3 | 13.7 |
| 3×2.5 | 0.26 | 0.9 | 1.8 | - | - | 10.9 | 14.0 | 7.98 | 8.21 |
| 3×4 | 0.31 | 1.0 | 1.9 | - | - | 12.7 | 16.2 | 4.95 | 5.09 |

## Table 7 YC重型450/750V橡套软电缆（续） YC 450/750V heavy rubber insulated flexible cable (sequel)

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 3×6 | | 0.31 | 1.0 | 2.1 | - | - | 14.0 | 18.0 | 3.30 | 3.39 |
| 3×10 | | 0.41 | 1.2 | 3.3 | - | - | 19.1 | 24.2 | 1.91 | 1.95 |
| 3×16 | | 0.41 | 1.2 | 3.5 | 1.4 | 2.1 | 21.8 | 27.6 | 1.21 | 1.24 |
| 3×25 | | 0.41 | 1.4 | 3.8 | 1.5 | 2.3 | 26.1 | 33.0 | 0.780 | 0.795 |
| 3×35 | | 0.41 | 1.4 | 4.1 | 1.6 | 2.5 | 29.3 | 37.1 | 0.554 | 0.565 |
| 3×50 | | 0.41 | 1.6 | 4.5 | 1.8 | 2.7 | 34.1 | 42.9 | 0.386 | 0.393 |
| 3×70 | | 0.51 | 1.6 | 4.8 | 1.9 | 2.9 | 38.4 | 48.3 | 0.272 | 0.277 |
| 3×95 | | 0.51 | 1.8 | 5.3 | 2.1 | 3.2 | 43.3 | 54.0 | 0.206 | 0.210 |
| 3×120 | | 0.51 | 1.8 | 5.6 | 2.2 | 3.4 | 47.3 | 60.0 | 0.161 | 0.164 |
| 3×150 | | 0.51 | 2.0 | 6.0 | 2.4 | 3.6 | 52.0 | 66.0 | 0.129 | 0.132 |
| 4×1 | | 0.21 | 0.8 | 1.5 | - | - | 9.2 | 11.9 | 19.5 | 20.0 |
| 4×1.5 | | 0.26 | 0.8 | 1.7 | - | - | 10.2 | 13.1 | 13.3 | 13.7 |
| 4×2.5 | | 0.26 | 0.9 | 1.9 | - | - | 12.1 | 15.5 | 7.98 | 8.21 |
| 4×6 | | 0.31 | 1.0 | 2.0 | - | - | 14.0 | 17.9 | 4.95 | 5.09 |
| 4×6 | | 0.31 | 1.0 | 2.3 | - | - | 15.7 | 22.0 | 3.30 | 3.39 |
| 4×10 | | 0.41 | 1.2 | 3.4 | - | - | 20.9 | 26.5 | 1.91 | 1.95 |
| 4×16 | | 0.41 | 1.2 | 3.6 | 1.4 | 2.2 | 23.8 | 30.1 | 1.21 | 1.24 |
| 4×25 | | 0.41 | 1.4 | 4.1 | 1.6 | 2.5 | 28.9 | 36.6 | 0.780 | 0.795 |
| 4×35 | | 0.41 | 1.4 | 4.4 | 1.7 | 2.7 | 32.5 | 41.1 | 0.554 | 0.565 |
| 4×50 | | 0.46 | 1.6 | 4.8 | 1.9 | 2.9 | 37.7 | 47.5 | 0.386 | 0.393 |
| 4×70 | | 0.51 | 1.6 | 5.2 | 2.0 | 3.2 | 42.7 | 54.0 | 0.272 | 0.277 |
| 4×95 | | 0.51 | 1.8 | 5.9 | 2.3 | 3.6 | 48.4 | 61.0 | 0.206 | 0.210 |
| 4×120 | | 0.51 | 1.8 | 6.0 | 2.4 | 3.6 | 53.0 | 66.0 | 0.161 | 0.164 |
| 4×150 | | 0.51 | 2.0 | 6.5 | 2.6 | 3.9 | 58.0 | 73.0 | 0.129 | 0.132 |
| 4×150 | | 0.51 | 2.0 | 6.5 | 2.6 | 3.9 | 58.0 | 73.0 | 0.129 | 0.132 |
| 四芯° (三大一小) Four core (Three big and one small) | 3×2.5+1×1.5 | 0.26/0.26 | 0.9/0.8 | 1.8 | - | - | 11.5 | 14.7 | 7.98 | 8.21 |
| | 3×4+1×2.5 | 0.31/0.26 | 1.0/0.9 | 2.0 | - | - | 13.6 | 17.3 | 4.95 | 5.09 |
| | 3×6+1×4 | 0.31/0.31 | 1.1/1.0 | 2.2 | - | - | 15.2 | 19.4 | 3.30 | 3.39 |
| | 3×10+1×6 | 0.41/0.31 | 1.2/1.0 | 3.3 | - | - | 19.9 | 25.3 | 1.91 | 1.95 |
| | 3×16+1×6 | 0.41/0.31 | 1.2/1.0 | 3.5 | 1.4 | 2.1 | 22.2 | 28.1 | 1.21 | 1.24 |
| | 3×25+1×10 | 0.41/0.41 | 1.4/1.2 | 3.9 | 1.6 | 2.3 | 26.9 | 34.0 | 0.780 | 0.795 |
| | 3×35+1×10 | 0.41/0.41 | 1.4/1.2 | 4.1 | 1.6 | 2.5 | 29.5 | 37.3 | 0.554 | 0.565 |
| | 3×50+1×16 | 0.41/0.41 | 1.6/1.2 | 4.5 | 1.8 | 2.7 | 34.2 | 43.2 | 0.386 | 0.393 |
| | 3×70+1×25 | 0.51/0.41 | 1.6/1.4 | 4.9 | 2.0 | 2.9 | 39.2 | 49.4 | 0.272 | 0.277 |
| | 3×95+1×35 | 0.51/0.41 | 1.8/1.4 | 5.3 | 2.1 | 3.2 | 44.0 | 55.4 | 0.206 | 0.210 |
| | 3×120+1×35 | 0.51/0.41 | 1.8/1.4 | 5.6 | 2.2 | 3.4 | 47.6 | 66.0 | 0.161 | 0.164 |
| | 3×125+1×50 | 0.51/0.41 | 2.0/1.6 | 6.1 | 2.4 | 3.7 | 53.0 | 67.0 | 0.129 | 0.132 |

## Table 8 YC重型450/750V橡套软电缆（续） YC 450/750V heavy rubber insulated flexible cable (sequel)

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 5×1 | | 0.26 | 0.8 | 1.6 | - | - | 10.2 | 13.1 | 19.5 | 20.0 |
| 5×1.5 | | 0.26 | 0.8 | 1.8 | - | - | 11.2 | 14.4 | 13.3 | 13.7 |
| 5×2.5 | | 0.26 | 0.9 | 2.0 | - | - | 13.3 | 17.0 | 7.98 | 8.21 |
| 5×4 | | 0.31 | 1.0 | 2.2 | - | - | 15.6 | 19.9 | 4.95 | 5.09 |
| 5×6 | | 0.31 | 1.0 | 2.5 | - | - | 17.5 | 22.2 | 3.30 | 3.39 |
| 5×10 | | 0.41 | 1.2 | 3.6 | - | - | 22.9 | 29.1 | 1.91 | 1.95 |
| 5×16 | | 0.41 | 1.2 | 3.9 | 1.5 | 2.4 | 26.4 | 33.3 | 1.21 | 1.24 |
| 5×25 | | 0.41 | 1.4 | 4.4 | 1.7 | 2.7 | 32.0 | 40.4 | 0.780 | 0.795 |
| 5×35 | | 0.41 | 1.4 | 4.6 | 1.8 | 2.8 | 35.7 | 45.1 | 0.554 | 0.565 |
| 5×50 | | 0.41 | 1.6 | 5.1 | 2.0 | 3.1 | 41.6 | 52.0 | 0.386 | 0.393 |
| 5×70 | | 0.51 | 1.6 | 5.5 | 2.2 | 3.3 | 47.1 | 59.0 | 0.272 | 0.277 |
| 5×95 | | 0.51 | 1.8 | 6.1 | 2.4 | 3.7 | 53.0 | 67.0 | 0.206 | 0.210 |
| 5×120 | | 0.51 | 1.8 | 6.6 | 2.6 | 4.0 | 59.0 | 74.0 | 0.161 | 0.164 |
| 5×150 | | 0.51 | 2.0 | 7.1 | 2.8 | 4.3 | 65.0 | 81.0 | 0.129 | 0.132 |
| 五芯[a] (三大二小) Five core (Three big and two small) | 3×2.5+1×1.5 | 0.26/0.26 | 0.9/0.8 | 1.9 | - | - | 12.4 | 15.9 | 7.98 | 8.21 |
| | 3×4+2×2.5 | 0.31/0.26 | 1.0/0.9 | 2.2 | - | - | 14.8 | 18.9 | 4.95 | 5.09 |
| | 3×6+2×4 | 0.31/0.31 | 1.0/1.0 | 2.4 | - | - | 16.7 | 21.3 | 3.30 | 3.39 |
| | 3×10+2×6 | 0.41/0.31 | 1.2/1.0 | 3.4 | - | - | 21.2 | 26.9 | 1.91 | 1.95 |
| | 3×16+2×6 | 0.41/0.31 | 1.2/1.0 | 3.6 | 1.4 | 2.2 | 23.3 | 29.5 | 1.21 | 1.24 |
| | 3×25+2×10 | 0.41/0.41 | 1.4/1.2 | 4.0 | 1.6 | 2.4 | 28.2 | 35.6 | 0.780 | 0.795 |
| | 3×35+2×10 | 0.41/0.41 | 1.4/1.2 | 4.2 | 1.7 | 2.5 | 30.6 | 38.7 | 0.554 | 0.565 |
| | 3×50+2×16 | 0.41/0.41 | 1.6/1.2 | 4.6 | 1.8 | 2.8 | 35.5 | 44.7 | 0.386 | 0.393 |
| | 3×70+2×25 | 0.51/0.41 | 1.6/1.4 | 5.0 | 2.0 | 3.0 | 40.9 | 52.0 | 0.272 | 0.288 |
| | 3×95+2×35 | 0.51/0.41 | 1.8/1.4 | 5.5 | 2.2 | 3.3 | 46.2 | 58.0 | 0.206 | 0.210 |
| | 3×120+2×35 | 0.51/0.41 | 1.8/1.4 | 5.8 | 2.3 | 3.5 | 49.4 | 62.0 | 0.161 | 0.164 |
| | 3×150+2×50 | 0.51/0.41 | 2.0/1.6 | 6.3 | 2.5 | 3.8 | 55.0 | 70.0 | 0.129 | 0.132 |
| 五芯[a] (四大一小) Five core (Four big and one small) | 4×2.5+1×1.5 | 0.26/0.26 | 0.8/0.9 | 2.0 | - | - | 12.9 | 16.5 | 7.98 | 8.21 |
| | 4×4+1×2.5 | 0.31/0.26 | 1.0/0.9 | 2.2 | - | - | 15.2 | 19.4 | 4.95 | 5.09 |
| | 4×6+1×4 | 0.31/0.31 | 1.0/1.0 | 2.4 | - | - | 17.0 | 21.6 | 3.30 | 3.39 |
| | 4×10+1×6 | 0.41/0.31 | 1.2/1.0 | 3.5 | - | - | 22.0 | 28.0 | 1.91 | 1.95 |
| | 4×16+1×6 | 0.41/0.31 | 1.2/1.0 | 3.7 | 1.5 | 2.2 | 24.7 | 31.3 | 1.21 | 1.24 |
| | 4×25+1×10 | 0.41/0.41 | 1.4/1.2 | 4.2 | 1.7 | 2.5 | 30.1 | 38.0 | 0.780 | 0.795 |
| | 4×35+1×10 | 0.41/0.41 | 1.4/1.2 | 4.4 | 1.8 | 2.6 | 33.2 | 41.9 | 0.554 | 0.565 |
| | 4×50+1×16 | 0.41/0.41 | 1.6/1.2 | 4.9 | 2.0 | 2.9 | 38.7 | 48.7 | 0.386 | 0.393 |

## Table 9 YC重型450/750 V橡套软电缆（续） YC 450/750V heavy rubber insulated flexible cable （sequel)

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 五芯[a] (三大二小) Five core (Three big and two small) | 4×70+1×25 | 0.51/0.41 | 1.6/1.4 | 5.3 | 2.1 | 3.2 | 44.1 | 56.0 | 0.272 | 0.277 |
| | 4×95+1×35 | 0.51/0.41 | 1.8/1.4 | 5.8 | 2.3 | 3.5 | 49.7 | 63.0 | 0.206 | 0.210 |
| | 4×120+1×35 | 0.51/0.41 | 1.8/1.4 | 6.2 | 2.5 | 3.7 | 54.0 | 68.0 | 0.161 | 0.164 |
| | 4×150+1×50 | 0.51/0.41 | 2.0/1.6 | 6.7 | 2.7 | 4.0 | 60.0 | 75.0 | 0.129 | 0.132 |

注：四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中小芯的直流电阻值与同型号相应截面积主线芯相同。

[a]四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中导体电阻为主线芯导体电阻。

Note:In the 4 core (3 large and one small), 5 core (3 big 1 small) and 5 core (4 large 1 small) structure, the DC resistance of the small core is the same as that of the main core of the same section area type.

[a] In the 4 core (3 big and 1 small) 5 core (3 big and 2 small) and 5 core (4 big and 1 small), the Conductor resistance is the master core conductor resistance.

## Table 10 YCW重型450/750 V橡套软电缆 YCW 450/750V heavy rubber insulated flexible cable

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 2×35 | | 0.41 | 1.4 | 3.9 | 1.5 | 2.4 | 27.3 | 34.6 | 0.554 | 0.565 |
| 2×50 | | 0.41 | 1.6 | 4.3 | 1.7 | 2.6 | 31.8 | 40.1 | 0.386 | 0.393 |
| 2×70 | | 0.51 | 1.6 | 4.6 | 1.8 | 2.8 | 35.8 | 45.1 | 0.272 | 0.277 |
| 2×95 | | 0.51 | 1.8 | 5.0 | 2.0 | 3.0 | 40.2 | 51.0 | 0.206 | 0.210 |
| 3×120 | | 0.51 | 1.8 | 5.6 | 2.2 | 3.4 | 47.3 | 60.0 | 0.161 | 0.164 |
| 3×150 | | 0.51 | 2.0 | 6.0 | 2.4 | 3.6 | 52.0 | 66.0 | 0.129 | 0.132 |
| 五芯[a] (四大一小) Five core (Four big and one small) | 3×2.5+1×1.5 | 0.26/0.26 | 0.9/0.8 | 1.8 | - | - | 11.5 | 14.7 | 7.98 | 8.21 |
| | 3×4+1×2.5 | 0.31/0.26 | 1.0/0.9 | 2.0 | - | - | 13.6 | 17.3 | 4.95 | 5.09 |
| | 3×6+1×4 | 0.31/0.31 | 1.0/1.0 | 2.2 | - | - | 15.2 | 19.4 | 3.30 | 3.39 |
| | 3×10+1×6 | 0.41/0.31 | 1.2/1.0 | 3.3 | - | - | 19.9 | 25.3 | 1.91 | 1.95 |
| | 3×16+1×6 | 0.41/0.31 | 1.2/1.0 | 3.5 | 1.4 | 2.1 | 22.2 | 28.1 | 1.21 | 1.24 |
| | 3×25+1×10 | 0.41/0.41 | 1.4/1.2 | 3.9 | 1.6 | 2.3 | 26.9 | 34.0 | 0.780 | 0.795 |
| | 3×35+1×10 | 0.41/0.41 | 1.4/1.2 | 4.1 | 1.6 | 2.5 | 29.5 | 37.3 | 0.554 | 0.565 |
| | 3×50+1×16 | 0.41/0.41 | 1.6/1.2 | 4.5 | 1.8 | 2.7 | 34.2 | 43.2 | 0.386 | 0.393 |
| | 3×70+1×25 | 0.51/0.41 | 1.6/1.4 | 4.9 | 2.0 | 2.9 | 39.2 | 49.4 | 0.272 | 0.277 |
| | 3×95+1×35 | 0.51/0.41 | 1.7/1.4 | 5.3 | 2.1 | 3.2 | 44.0 | 55.4 | 0.206 | 0.210 |
| | 3×120+1×35 | 0.51/0.41 | 1.8/1.4 | 5.6 | 2.2 | 3.4 | 47.6 | 60.0 | 0.161 | 0.164 |
| | 3×150+1×50 | 0.51/0.41 | 2.0/1.6 | 6.1 | 2.4 | 3.7 | 53.0 | 67.0 | 0.129 | 0.132 |
| 5×35 | | 0.41 | 1.4 | 4.6 | 1.8 | 2.8 | 35.7 | 45.1 | 0.554 | 0.565 |
| 5×50 | | 0.41 | 1.6 | 5.1 | 2.0 | 3.1 | 41.6 | 52.0 | 0.386 | 0.393 |
| 5×70 | | 0.51 | 1.6 | 5.5 | 2.2 | 3.3 | 47.1 | 59.0 | 0.272 | 0.277 |

**Table11 YCW重型450/750 V橡套软电缆（续） YCW 450/750V heavy rubber insulated flexible cable （sequel)**

| 芯数×导体标称截面积mm² Core No.*Conductor nominal cross-sectional area | | 导体中单线最大直径 mm The maximum diameter of a single line in a conductor | 绝缘厚度规定值 mm Specified value of insulation thickness | 护套厚度规定值 mm Specified value of sheath thickness | | | 平均外径 mm Average outside diameter | | 20℃时导体电阻最大值 Ω/km Max. conductor resistance at 20℃ | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 单层 Single layer | 单层 Two layer | | 下限 Lower limit | 上限 Upper limit | 铜芯 Copper core | 镀锡铜芯 Tined copper core |
| | | | | | 内层 Inner layer | 外层 Outer layer | | | | |
| 5×95 | | 0.51 | 1.8 | 6.1 | 2.4 | 3.7 | 53.0 | 67.0 | 0.206 | 0.210 |
| 5×120 | | 0.51 | 1.8 | 6.6 | 2.6 | 4.0 | 59.0 | 74.0 | 0.161 | 0.164 |
| 5×150 | | 0.51 | 2.0 | 7.1 | 2.8 | 4.3 | 65.0 | 81.0 | 0.129 | 0.132 |
| 五芯[a] (三大二小) Five core (Three big and two small) | 3×2.5+1×1.5 | 0.26/0.26 | 0.9/0.8 | 1.9 | - | - | 12.4 | 15.9 | 7.98 | 8.21 |
| | 3×4+2×2.5 | 0.31/0.26 | 1.0/0.9 | 2.2 | - | - | 14.8 | 18.9 | 4.95 | 5.09 |
| | 3×6+2×4 | 0.31/0.31 | 1.0/1.0 | 2.4 | - | - | 16.7 | 21.3 | 3.30 | 3.39 |
| | 3×10+2×6 | 0.41/0.31 | 1.2/1.0 | 3.4 | - | - | 21.2 | 26.9 | 1.91 | 1.95 |
| | 3×16+2×6 | 0.41/0.31 | 1.2/1.0 | 3.6 | 1.4 | 2.2 | 23.3 | 29.5 | 1.21 | 1.24 |
| | 3×25+2×10 | 0.41/0.41 | 1.4/1.2 | 4.0 | 1.6 | 2.4 | 28.2 | 35.6 | 0.780 | 0.795 |
| | 3×35+2×10 | 0.41/0.41 | 1.4/1.2 | 4.2 | 1.6 | 2.5 | 30.6 | 38.7 | 0.554 | 0.565 |
| | 3×50+2×16 | 0.41/0.41 | 1.6/1.2 | 4.6 | 1.8 | 2.8 | 35.5 | 44.7 | 0.386 | 0.393 |
| | 3×70+2×25 | 0.51/0.41 | 1.6/1.4 | 5.0 | 2.0 | 3.0 | 40.9 | 52.0 | 0.272 | 0.277 |
| | 3×95+2×35 | 0.51/0.41 | 1.7/1.4 | 5.5 | 2.2 | 3.3 | 46.2 | 58.0 | 0.206 | 0.210 |
| | 3×120+2×35 | 0.51/0.41 | 1.8/1.4 | 5.8 | 2.3 | 3.5 | 49.4 | 62.0 | 0.161 | 0.164 |
| | 3×150+2×50 | 0.51/0.41 | 2.0/1.6 | 6.3 | 2.5 | 3.8 | 55.0 | 70.0 | 0.129 | 0.132 |
| 五芯[a] (四大一小) Five core (Four big and one small) | 4×2.5+1×1.5 | 0.26/0.26 | 0.9/0.8 | 2.0 | - | - | 12.9 | 16.5 | 7.98 | 8.21 |
| | 4×4+1×2.5 | 0.31/0.26 | 1.0/0.9 | 2.2 | - | - | 15.2 | 19.4 | 4.95 | 5.09 |
| | 4×6+1×4 | 0.31/0.31 | 1.0/1.0 | 2.4 | - | - | 17.0 | 21.6 | 3.30 | 3.39 |
| | 4×10+1×6 | 0.41/0.31 | 1.2/1.0 | 3.5 | - | - | 22.1 | 28.0 | 1.91 | 1.95 |
| | 4×16+1×6 | 0.41/0.31 | 1.2/1.0 | 3.7 | 1.5 | 2.2 | 24.7 | 31.3 | 1.21 | 1.24 |
| | 4×25+1×10 | 0.41/0.41 | 1.4/1.2 | 4.2 | 1.7 | 2.5 | 30.1 | 38.0 | 0.780 | 0.795 |
| | 4×35+1×10 | 0.41/0.41 | 1.4/1.2 | 4.4 | 1.8 | 2.6 | 33.2 | 41.9 | 0.554 | 0.565 |
| | 4×50+1×16 | 0.41/0.41 | 1.6/1.2 | 4.9 | 2.0 | 2.9 | 38.7 | 48.7 | 0.386 | 0.393 |
| | 4×70+1×25 | 0.51/0.41 | 1.6/1.4 | 5.3 | 2.1 | 3.2 | 44.1 | 56.0 | 0.272 | 0.277 |
| | 4×95+1×35 | 0.51/0.41 | 1.8/1.4 | 5.8 | 2.3 | 3.5 | 49.7 | 63.0 | 0.206 | 0.210 |
| | 4×120+1×35 | 0.51/0.41 | 1.8/1.4 | 6.2 | 2.5 | 3.7 | 54.0 | 68.0 | 0.161 | 0.164 |
| | 4×150+1×50 | 0.51/0.41 | 2.0/1.6 | 6.7 | 2.7 | 4.0 | 60.0 | 75.0 | 0.129 | 0.132 |

注：四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中小芯的直流电阻值与同型号相应截面积主线芯相同。

[a]四芯（三大一小）、五芯（三大二小）和五芯（四大一小）结构中导体电阻为主线芯导体电阻。

Note:In the 4 core (3 large and one small), 5 core (3 big 1 small) and 5 core (4 large 1 small) structure, the DC resistance of the small core is the same as that of the main core of the same section area type.

[a] In the 4 core (3 big and 1 small) 5 core (3 big and 2 small) and 5 core (4 big and 1 small), the Conductor resistance is the master core conductor resistance.

## 六、交货长度

1、根据双方协议允许任何长度的电缆交货，长度误差为±0.5%；

2、用户对产品有阻燃特性要求，在合同中需另补充协议。

## Delivery Length

1.According to the agreement between the two parties, any length of cable can be delivered with a length error of ±0.5%.

2.The additional agreement should be added according to customer’s requirements on flame retardant performance.

# 电焊机电缆

## Arc Welding electrode cables

本产品适用于交流额定电压450/750V及以下的家用电器、电动工具和各种移动电气设备。

It is used for household electrical appliance, electrical tools and various mobile electrical equipments with AC rated voltage up to and including 450/750V.

## 一、生产执行标准

GB/T 5013.6-2008或IEC60245-6:2003。

## Executive standard

GB/T 5013.6-2008 or IEC60245-6:2003.

## 二、使用特性

由于这种类型的电缆专用于焊接，故额定电压不作规定。

## Operational performance

Due to this type of cable is used for welding, the rated voltage is not specified.

## 三、型号及名称及主要用途

## Type, Description and Main Application

| 型号 Type | 名称 Description | 主要用途 Main application |
|---|---|---|
| 60245 IEC 81(YH) | 橡套电焊机电缆<br>Rubber sheathed electric welding machine cable | 主要用作电焊机焊接线用<br>Mainly used as welding wire for arc welding machine |
| 60245 IEC 82(YHF) | 氯丁或其他相当的合成弹性体橡套电焊机电缆<br>Polychloroprene or other equivalent synthetic elastomer sheathed arc welding electrode cable | |

## 四、规格范围

## Specication Range

| 型号<br>Type | 额定电压V<br>Rated voltage | 芯数<br>Core number | 标称截面mm²<br>Nominal cross section area |
|---|---|---|---|
| 60245 IEC 81(YH)<br>60245 IEC 82(YHF) | / | 1 | 16~95 |

## 五、规格尺寸及技术参数如下表

## Specification , Size and Technical Parameter

**60245 IEC 81(YH) 60245 IEC 82(YHF)**

| 标称截面 mm²<br>Nominal cross section area | 导体单丝直径<br>mm<br>Max.diameter of single wire | 20℃时导体电阻最大值<br>Ω/km<br>Max. conductor resistance at 20℃ | | 覆盖层总厚度规定值<br>mm<br>Total thickness of covering specified value | 符合覆盖层中的保护厚度规定值<br>mm<br>Thickness of sheath of composite covering specified value | 平均外径<br>mm<br>Average outside diameter | |
|---|---|---|---|---|---|---|---|
| | | 铜芯<br>Copper core | 镀锡铜芯<br>Tined copper core | | | 下限<br>Lower limit | 上限<br>Upper limit |
| 16 | 0.21 | 1.16 | 1.19 | 2.0 | 1.3 | 8.8 | 11.0 |
| 25 | 0.21 | 0.758 | 0.780 | 2.0 | 1.3 | 10.1 | 12.7 |
| 35 | 0.21 | 0.536 | 0.552 | 2.0 | 1.3 | 11.4 | 14.2 |
| 50 | 0.21 | 0.379 | 0.390 | 2.2 | 1.5 | 13.2 | 16.5 |
| 70 | 0.21 | 0.268 | 0.276 | 2.4 | 1.6 | 15.3 | 19.2 |
| 95 | 0.21 | 0.198 | 0.204 | 2.6 | 1.7 | 17.1 | 21.4 |

## 六、交货长度

1、根据双方协议允许任何长度的电缆交货，长度误差为±0.5%；

2、用户对产品有阻燃特性要求，在合同中需另补充协议。

## Delivery Length

1.According to the agreement between the two parties, any length of cable can be delivered with a length error of ±0.5%.

2.The additional agreement should be added according to customer’s requirements on flame retardant performance.

# 补偿电缆 Compensating Cable



## 热电偶用补偿导线、补偿电缆（含本安型）

Extension and compensating Wires&Cables for Thermocouple（Including Intrinsic safety Type)

# 热电偶用补偿导线、补偿电缆（含本安型）

## Extension and compensating Wires&Cables for Thermocouple (Including Intrinsic safety Type)

补偿导线与补偿电缆是在一定温度范围内（包括常温）具有与所匹配的热电偶的热电动势值相同的一对或多对带有绝缘层的导线或电缆，用它们连接热电偶与测量装置，以补偿它们与热电偶连接处的温度变化所产生的误差，补偿导线与补偿电缆分为延长型和补偿型两种。

The compensation cable/wire is one or more pairs of wires/cables with insulated layer. It has the same value of thermopower with the matching thermocouple in a certain temperature range (including ambient temperature).which are used to connect the thermocouple and the measuring device, In order to compensate for the error caused by the temperature changes.Compensation wire and compensation cable is divided into two types: extended type and compensation type.

### 一、生产执行标准

GB/T 4989-2013及JB/T 7495-2014。

### Executive standard

GB/T 4989-2013 & JB/T 7495-2014.

### 二、使用特性

1、工作温度
耐热用：最高200℃；
一般用：最高70℃和105℃两种；
2、最低敷设温度
氟塑料绝缘和护套线缆：-15℃；
聚氯乙烯绝缘和护套线缆：0℃；
3、允许弯曲半径
a) 有铜带屏蔽的补偿电缆，应不小于电缆外径的16倍；
b) 其它结构的补偿电缆，应不小于电缆外径的10倍。

### Operational performance

1.Working Temperature
Max. 200℃ for heat resistant cable
Max. 70℃&105℃ for common cable
2.Min Laying Temperature
Wire & cable with fluoroplastic insulation and sheath:-15℃.
Wire & cable with PVC insulation and sheath:0℃.
3.Bending radius
It should be not less than 16 times that of cable outer diameter for compensational cable with copper tape shielding.
It should be not less than 10 times that of cable outer diameter for compensational cable with other structure.

### 三、型号名称

1、补偿导线

### Type and Description

Compensational Wire

| 型号 Type | 名 称 Description |
|---|---|
| KX-GS-VV | 聚氯乙烯绝缘和护套一般用精密级K分度热电偶用补偿导线<br>Precise grade compensational wire for K Type Thermocouple with PVC insulation and sheath for general purpose |
| KX-GS-VPV | 聚氯乙烯绝缘和护套铜丝编织屏蔽一般用精密级K分度热电偶用屏蔽补偿导线<br>Precise grade compensational wire for K Type Thermocouple with PVC insulation and sheath, copper wire braided shielding for general purpose |
| KX-HS-FF | 氟塑料绝缘和护套耐热用精密级K分度热电偶用高温补偿导线<br>Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation and sheath for heat resistant purpose |
| KX-HS-$FP_1F$ | 氟塑料绝缘和护套镀锡铜丝编织屏蔽耐热用精密级K分度热电偶用高温补偿导线<br>Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation and sheath, tinned copper wire braided shielding for heat resistant purpose |
| KX-HS-FB | 聚四氟绝缘、玻璃丝编织护套耐热用精密级K分度热电偶用高温补偿导线<br>Precise grade high temperature compensational wire for K Type Thermocouple with F4 insulation and glass wire braided sheath for heat resistant purpose |
| KX-HS-$FBP_1$ | 聚四氟乙烯绝缘，镀锡铜丝编织屏蔽，玻璃丝编织外护套耐热用精密级K分度热电偶用高温补偿导线<br>Precise grade high temperature compensational wire for K Type Thermocouple with F46 wrapped insulation glass wire braiding, tinned copper wire braided shielding and glass wire braided outer sheath for heat resistant purpose |
| KX-HS-$FP_1V_{105}$ | 氟塑料绝缘镀锡铜丝编织屏蔽耐热105℃聚氯乙烯护套耐热用精密级K分度热电偶用高温补偿导线<br>Precise grade high temperature compensational wire for K Type Thermocouple with Fluoroplastic insulation, tinned copper wire braided shielding, 105℃ heat resistant and PVC sheath for heat resistant |

注：普通级补偿导线型号表示方法，在精密级补偿导线型号基础上去掉字母"S"即可（下同）。

Note: Type-naming method of common grade compensational wire: "S" should be omitted on the basis of precise grade compensational wire type.

## 2、补偿电缆　　Compensating Cable

| 型号 Type | 名 称 Description |
|---|---|
| KX-GS-VV | 聚氯乙烯绝缘对绞聚氯乙烯护套一般用精密级K分度热电偶用补偿电缆<br>Precise grade compensational cable for K Type Thermocouple with PVC insulation and twinning PVC sheath for general purpose |
| KX-GS-VPV | 聚氯乙烯绝缘对绞铜丝编织分屏蔽聚氯乙烯护套一般用精密级K分度热电偶用补偿电缆<br>Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided individual shielding, PVC sheath for general purpose |
| KX-GS-VPVP | 聚氯乙烯绝缘对绞铜丝编织分屏蔽和总屏蔽聚氯乙烯护套一般用精密级K分度热电偶用补偿电缆<br>Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided individual & general shielding, PVC sheath for general purpose |
| KX-GS-VVP | 聚氯乙烯绝缘对绞铜丝编织总屏蔽聚氯乙烯护套一般用精密级K分度热电偶用补偿电缆<br>Precise grade compensational cable for K Type Thermocouple with PVC insulation, twinning copper wire braided general shielding, PVC sheath for general purpose |
| KX-HS-FF | 氟塑料绝缘对绞氟塑料护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation and twinning Fluoroplastic sheath |
| KX-HS-FP$_1$F | 氟塑料绝缘对绞镀锡铜丝编织分屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual shielding and Fluoroplastic sheath |
| KX-HS-FP$_1$FP$_1$ | 氟塑料绝缘对绞镀锡铜丝编织分屏蔽和总屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual & general shielding and Fluoroplastic sheath |
| KX-HS-FFP$_1$ | 氟塑料绝缘对绞镀锡铜丝编织总屏蔽氟塑料护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided general shielding and Fluoroplastic sheath |
| KX-HS-FV$_{105}$ | 氟塑料绝缘对绞耐热105℃聚氯乙烯护套 精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning 105℃ heat resistant PVC sheath |
| KX-HS-FP$_1$V$_{105}$ | 氟塑料绝缘对绞镀锡铜丝编织分屏蔽耐热105℃聚氯乙烯护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual shielding 105℃ heat resistant PVC sheath |
| KX-HS-FP$_1$V$_{105}$P$_1$ | 氟塑料绝缘对绞镀锡铜丝编织分屏总屏蔽耐热105℃聚氯乙烯护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided individual and general shielding 105℃ heat resistant PVC sheath |
| KX-HS-FV$_{105}$P$_1$ | 氟塑料绝缘对绞镀锡铜丝编织总屏蔽耐热105℃聚氯乙烯护套精密级K分度热电偶用高温补偿电缆<br>Precise grade high temperature compensational cable for K Type Thermocouple with Fluoroplastic insulation, twinning tinned copper wire braided general shielding 105℃ heat resistant PVC sheath |

注：
1、其它型号补偿导线如：KC、JX、SC、EX、NC、TX等，只需改写型号的第一项，如：EX-G-VV、TX-H-FVP等；
2、需导体为多股软芯时，应在原型号后加“R“表示，如：TX-G-VVPR；
3、还可根据需要提供聚乙烯（Y）绝缘、交联聚乙烯（YJ）绝缘补偿电缆；
4、补偿电缆屏蔽层也可采用金属带绕包形式，如：复合铝带（P3）、复合铜带（P2）；
5、需阻燃型补偿电缆，应在原型号前加“ZR-”；
6、需铠装型补偿电缆，应在原型号后加“-22“表示钢带铠装；加“-32”表示钢丝铠装；
7、需本安型补偿电缆，应在原型号前加”ia-”表示。

Note: 1.Compensation wire types, such as KC JX SC EX NC TX etc., only need to rewrite the first item of the model, like EX-G-VV and TX-H-FVP etc.
2.Suffix “R“ is added to the original type for indication of cable with soft multi-strand core.eg. TX-G-VVPR
3.We also produce compensational cable with PE (Y) insulation or XLPE (YJ) insulation if needed.
4.Shielding layer material of compensational cable includes metallic tape wrapping such as compound aluminum tape ( P3) and compound copper tape (P2) .
5.Prefix “ZR-“ is added to the original type for indication of flame retardant type compensational cable.
6.Suffix ”-22” is added to the original type for indication of compensational cable with steel tape armor, ”-32” for that with steel wire armor.
7.Prefix “ia-“ is added to the original type for indication of intrinsic safety type compensational cable.

## 四、规格范围 Specication Range

| 名称 Name | 线芯对数 Pair No. of core | 标称截面mm² Nominal cross section area | 线芯结构 Core structure | |
|---|---|---|---|---|
| | | | A | R |
| 补偿导线 Compensational wire | 1 | 0.5 | 1/0.80 | 7/0.30 |
| | | 1.0 | 1/1.13 | 7/0.43 |
| 补偿电缆 Compensational cable | 1~19 | 1.5 | 1/1.37 | 7/0.52 |
| | | 2.5 | 1/1.76 | 19/0.41 |

## 五、主要技术要求 Main Technical Requirement

| 产品型号 Type | 补偿导线及电缆线芯 Compensational wire & cable core | | 补偿导线绝缘层着色 Insulation color of compensational wire | | 配用热电偶分度号 Thermocouple graduation |
|---|---|---|---|---|---|
| | 正极 Positive pole | 负极 Negative pole | 正极 Positive pole | 负极 Negative pole | |
| SC or RC | 铜 Cu | 铜镍0.6 Cu-Ni | 红 Red | 绿 Green | S（铂铑10-铂）或R（铂铑13-铂） S (PtRh10-PT) or R (PtRh13-PT) |
| KCA | 铁 Fe | 铜镍22 Cu-Ni | 红 Red | 蓝 Blue | K（镍铬-镍硅）K (NiCr-NiSi) |
| KCB | 铜 Cu | 铜镍40 Cu-Ni | 红 Red | 蓝 Blue | |
| KX | 镍铬10 Ni-Cr 10 | 镍硅3 Ni-Si | 红 Red | 黑 Black | |
| EX | 镍铬10 Ni-Cr 10 | 铜镍45 Cu-Ni | 红 Red | 棕 Brown | E（镍铬-铜镍）E (NiCr-NiSi) |
| JX | 铁 Fe | 铜镍45 Cu-Ni | 红 Red | 紫 Violet | J（铁-铜镍）J (Fe-CuNi) |
| TX | 铜 Cu | 铜镍45 Cu-Ni | 红 Red | 白 White | T（铜-铜镍）T (Cu-CuNi) |
| NC | 铁 Fe | 铜镍18 Cu-Ni | 红 Red | 灰 Grey | N（镍铬硅-镍硅镁） N (NiCrSi-NiSiMg) |
| NX | 镍铬14硅 Ni-Cr 14 Si | 镍硅4镁 NiSi4Mg | 红 Red | 灰 Grey | |

## 六、补偿导线与补偿电缆使用分类、等级及护套着色 Category, Class grade and Sheath Color of Compensational Cable and Wire

| 使用分类 Category | 标志代号 Mark code | 允差等级及标志 Error allowance grade&mark | | 护套着色 Sheath color | | |
|---|---|---|---|---|---|---|
| | | 普通级 Common grade | 精密级 Precise grade | 普通级 Common grade | 精密级 Precise grade | 本安型 Intrinsic safety |
| 一般用 General | G | 省略 Omitted | S | 黑色 Black | 灰 Grey | 蓝 Blue |
| 耐热用 Heat resistance | H | | | 黑色 Black | 黄色 Yellow | 蓝 Blue |

注：在旧标准GB4989-85中，普通级用B表示，精密级用A表示。
本安型在原有型号前增加“IA”

Note: In early version of GB4989-85 standard, B stands for common.
The "IA" is added before the original model.

## 七、补偿导线及补偿电缆热电特性及允差表 A stands for precise grade and Error Allowance of Compensational Cable and Wire

| 型号 Type | 使用分类 Category | 导线温度范围℃ Tem range of cable&wire | 热电动势及允差μV Pyro EMF | | | 热电偶测量端温度 ℃ Measuring end tem. of thermocouple | 20℃时往复电阻值≤Ω/m Reciprocating resistance at 20℃ | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 热电势 Pyro EMF | 精密级 Precise grade | 普通级 Common grade | | 0.5mm² | 1.0mm² | 1.5mm² | 2.5mm² |
| SC&RC | G | 0~100 | 646 | ±30(±2.5℃) | ±60(±5.0℃) | 1000 | 0.10 | 0.05 | 0.03 | 0.02 |
| | H | 0~200 | 1441 | / | ±60(±5.0℃) | | | | | |
| KCA | G | 0~100 | 4096 | ±44(±1.1℃) | ±88(±2.2℃) | 1000 | 1.40 | 0.70 | 0.47 | 0.28 |
| | H | 0~200 | 8138 | | | 900 | | | | |
| KCB | G | 0~100 | 4096 | | | 900 | 1.04 | 0.52 | 0.35 | 0.21 |
| KX | G | -20~100 | 4096 | | | 900 | 2.20 | 1.10 | 0.73 | 0.44 |
| | H | -25~200 | 8138 | | | 900 | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EX | G | -20~100 | 6319 | ±81(±1.1℃) | ±138(±1.7℃) | 500 | 2.50 | 1.25 | 0.83 | 0.50 |
| | H | -25~200 | 13421 | | | 500 | | | | |
| JX | G | -20~100 | 6319 | ±62(±1.1℃) | ±123(±2.0℃) | 500 | 1.30 | 0.65 | 0.43 | 0.26 |
| | H | -25~200 | 13421 | | | 500 | | | | |
| TX | G | -20~100 | 6319 | ±30(±0.5℃) | ±60(±1.0℃) | 300 | 1.04 | 0.52 | 0.35 | 0.21 |
| | H | -25~200 | 13421 | | | 300 | | | | |
| NC | G | 0~100 | 6319 | ±48(±0.8℃) | ±90(±1.5℃) | 900 | 1.50 | 0.75 | 0.50 | 0.30 |
| | H | 0~200 | 13421 | | | 900 | | | | |
| NX | G | -20~100 | 6319 | ±43(±1.1℃) | ±86(±2.2℃) | 900 | 2.86 | 1.43 | 0.95 | 0.57 |
| | H | -25~200 | 13421 | | | 900 | | | | |

## 八、其它参数指标 Other Parameter Indices

| 项目 Item | 单位 Unit | 参数指标 Parameter Indices | |
|---|---|---|---|
| | | PVC绝缘PVC insulation | PE、XLPE、F46&F绝缘PE、XLPE、F46&F insulation |
| 绝缘电阻 Insulated resistance | MΩ.km | 25 | 100 |
| 电压试验 Voltage test | V/1min | 500 | |
| 阻燃性能 Flame retardant performance | 符合GB/T19666-2019阻燃标准中A、B、C类规定。 Meet the requirement of flame retardance of category A, B,C stipulated in GB/T19666-2019 standard. | | |

## 九、规格尺寸 Specification and Size

1、补偿导线; Compensational Wire

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor | 最大外径 mm Max OD | | | |
|---|---|---|---|---|---|
| | | VV | VPV | FF | FP1F |
| 2×0.5 | A | 3.7×6.4 | 4.7×7.4 | 2.6×4.6 | 3.2×5.2 |
| | R | 3.9×6.6 | 4.9×7.6 | 2.8×4.8 | 3.4×5.4 |
| 2×1.0 | A | 5.0×7.7 | 6.0×8.7 | 3.0×5.3 | 3.6×5.9 |
| | R | 5.1×8.0 | 6.1×9.0 | 3.1×5.6 | 3.7×6.2 |
| 2×1.5 | A | 5.2×8.3 | 6.2×9.3 | 3.2×5.8 | 3.8×6.4 |
| | R | 5.5×8.7 | 6.5×9.7 | 3.4×6.2 | 4.0×6.8 |
| 2×2.5 | A | 5.7×9.3 | 6.7×10.3 | 3.6×6.7 | 4.2×7.3 |
| | R | 5.9×9.8 | 6.9×10.8 | 4.0×7.3 | 4.6×7.9 |

2、补偿电缆; Compensational Cable

| 芯数×标称截面mm² Core No.*nominal cross section area | 导体种类 Conductor | 最大外径 mm Max OD | | | | | |
|---|---|---|---|---|---|---|---|
| | | VV | VPV | FV | FP1V | FF | FP1F |
| 1×2×0.5 | A | 6.9 | 7.4 | 6.7 | 7.2 | 5.0 | 5.6 |
| | R | 7.3 | 7.7 | 7.0 | 7.4 | 5.2 | 5.8 |
| 1×2×1.0 | A | 8.7 | 9.1 | 7.4 | 7.8 | 5.8 | 6.3 |
| | R | 8.9 | 9.4 | 7.6 | 8.3 | 6.1 | 6.8 |
| 1×2×1.5 | A | 9.1 | 9.8 | 7.9 | 8.4 | 6.4 | 6.9 |
| | R | 9.6 | 10.5 | 8.1 | 8.8 | 6.6 | 7.4 |
| 1×2×2.5 | A | 10.0 | 10.7 | 8.8 | 9.2 | 7.4 | 7.8 |
| | R | 10.7 | 11.3 | 9.2 | 10.1 | 7.8 | 8.7 |
| 2×2×0.5 | A | 10.3 | 11.4 | 9.4 | 10.5 | 7.9 | 9.7 |
| | R | 10.6 | 11.5 | 10.0 | 11.0 | 8.1 | 10.0 |
| 2×2×1.0 | A | 13.0 | 14.5 | 10.5 | 12.2 | 9.0 | 11.0 |
| | R | 13.3 | 15.4 | 11.5 | 12.9 | 9.5 | 11.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2×2×1.5 | A | 13.6 | 15.5 | 11.3 | 13.1 | 9.9 | 11.5 |
| | R | 14.5 | 16.5 | 12.5 | 14.4 | 10.7 | 12.5 |
| 2×2×2.5 | A | 15.0 | 17.5 | 12.8 | 14.5 | 11.6 | 13.6 |
| | R | 16.0 | 18.6 | 14.0 | 16.0 | 12.4 | 14.5 |
| 3×2×0.5 | A | 10.6 | 12.1 | 9.8 | 11.7 | 8.4 | 10.5 |
| | R | 11.2 | 12.7 | 11.0 | 12.1 | 9.0 | 10.9 |
| 3×2×1.0 | A | 14.4 | 15.8 | 12.0 | 13.0 | 9.8 | 11.8 |
| | R | 14.7 | 16.3 | 12.5 | 13.6 | 10.5 | 12.4 |
| 3×2×1.5 | A | 15.2 | 17.1 | 12.5 | 14.5 | 10.8 | 13.0 |
| | R | 16.0 | 17.8 | 13.5 | 15.3 | 11.6 | 13.8 |
| 3×2×2.5 | A | 16.7 | 18.6 | 14.0 | 16.1 | 12.3 | 14.5 |
| | R | 17.9 | 19.8 | 15.5 | 17.0 | 13.6 | 15.5 |
| 4×2×0.5 | A | 11.3 | 12.9 | 10.5 | 12.5 | 9.0 | 11.3 |
| | R | 12.0 | 13.5 | 11.5 | 13.0 | 9.6 | 12.0 |
| 4×2×1.0 | A | 15.4 | 16.9 | 13.0 | 14.5 | 10.6 | 12.6 |
| | R | 16.2 | 17.4 | 13.5 | 15.5 | 11.5 | 13.5 |
| 4×2×1.5 | A | 16.3 | 18.3 | 13.5 | 15.5 | 11.7 | 14.0 |
| | R | 17.5 | 19.1 | 14.5 | 16.5 | 12.3 | 16.0 |
| 4×2×2.5 | A | 18.0 | 20.6 | 15.5 | 18.0 | 13.6 | 15.5 |
| | R | 19.3 | 21.9 | 17.5 | 19.0 | 14.7 | 17.0 |
| 5×2×0.5 | A | 12.7 | 15.0 | 11.7 | 14.0 | 10.0 | 12.0 |
| | R | 13.4 | 15.8 | 12.5 | 14.5 | 10.7 | 13.0 |
| 5×2×1.0 | A | 16.5 | 18.0 | 13.5 | 15.5 | 11.9 | 14.0 |
| | R | 17.0 | 19.4 | 14.5 | 16.9 | 13.0 | 15.0 |
| 5×2×1.5 | A | 17.3 | 20.0 | 15.1 | 17.2 | 13.0 | 15.0 |
| | R | 18.3 | 21.0 | 15.8 | 18.2 | 14.3 | 16.0 |
| 5×2×2.5 | A | 20.0 | 23.0 | 18.5 | 19.1 | 15.5 | 17.0 |
| | R | 21.0 | 24.5 | 19.5 | 20.5 | 16.7 | 18.5 |
| 6×2×0.5 | A | 13.5 | 15.5 | 12.5 | 15.0 | 11.0 | 13.0 |
| | R | 14.5 | 16.0 | 13.5 | 15.5 | 11.5 | 14.0 |
| 6×2×1.0 | A | 17.5 | 20.0 | 14.5 | 17.0 | 13.0 | 15.0 |
| | R | 18.5 | 21.0 | 15.5 | 18.0 | 14.0 | 16.0 |
| 6×2×1.5 | A | 19.5 | 21.0 | 15.5 | 18.5 | 14.0 | 16.0 |
| | R | 20.0 | 22.0 | 17.0 | 19.5 | 15.0 | 17.5 |
| 6×2×2.5 | A | 21.5 | 23.0 | 18.5 | 21.0 | 16.5 | 18.5 |
| | R | 23.0 | 24.5 | 20.0 | 22.5 | 18.0 | 19.5 |
| 7×2×0.5 | A | 14.0 | 15.5 | 12.5 | 15.0 | 11.0 | 13.0 |
| | R | 14.5 | 16.0 | 13.5 | 15.5 | 11.5 | 14.0 |
| 7×2×1.0 | A | 18.0 | 20.0 | 14.5 | 17.0 | 13.0 | 15.0 |
| | R | 18.5 | 21.0 | 15.5 | 18.0 | 14.0 | 16.0 |
| 7×2×1.5 | A | 19.0 | 21.0 | 15.5 | 18.5 | 14.0 | 16.0 |
| | R | 20.5 | 22.0 | 17.0 | 19.5 | 15.0 | 17.5 |
| 7×2×2.5 | A | 21.5 | 22.0 | 18.5 | 20.5 | 16.5 | 18.5 |
| | R | 23.0 | 23.0 | 20.0 | 21.5 | 18.0 | 19.5 |
| 8×2×0.5 | A | 15.0 | 17.0 | 14.0 | 16.5 | 12.5 | 14.5 |
| | R | 15.5 | 17.5 | 15.6 | 17.5 | 13.0 | 15.5 |
| 8×2×1.0 | A | 17.5 | 22.0 | 16.0 | 18.5 | 14.5 | 16.5 |
| | R | 20.0 | 23.0 | 17.0 | 19.5 | 15.5 | 17.5 |
| 8×2×1.5 | A | 21.0 | 23.0 | 17.0 | 20.0 | 15.5 | 18.0 |
| | R | 22.5 | 24.0 | 19.0 | 21.0 | 17.0 | 19.0 |
| 8×2×2.5 | A | 23.5 | 25.5 | 20.5 | 22.5 | 18.0 | 20.0 |
| | R | 25.0 | 27.5 | 22.0 | 24.0 | 19.5 | 22.0 |
| 9×2×0.5 | A | 16.0 | 18.0 | 15.5 | 17.5 | 13.5 | 15.5 |
| | R | 16.5 | 18.5 | 16.4 | 18.5 | 14.5 | 16.5 |
| 9×2×1.0 | A | 21.5 | 23.0 | 18.0 | 19.5 | 15.5 | 17.5 |
| | R | 22.5 | 24.0 | 19.3 | 21.0 | 16.5 | 18.5 |
| 9×2×1.5 | A | 22.5 | 25.0 | 19.0 | 21.5 | 17.0 | 19.5 |
| | R | 23.5 | 26.0 | 20.5 | 24.0 | 18.5 | 20.0 |
| 9×2×2.5 | A | 25.5 | 27.5 | 22.0 | 24.5 | 20.0 | 22.0 |
| | R | 27.0 | 29.5 | 24.0 | 26.0 | 21.5 | 23.5 |
| 10×2×0.5 | A | 17.0 | 19.5 | 15.5 | 18.5 | 14.0 | 16.0 |
| | R | 17.5 | 20.0 | 16.5 | 19.0 | 15.0 | 17.0 |
| 10×2×1.0 | A | 22.0 | 24.0 | 18.1 | 21.0 | 16.0 | 18.5 |
| | R | 23.0 | 25.5 | 19.4 | 22.0 | 17.5 | 19.5 |

| 芯数×标称截面 mm² Core No.*nominal cross section area | 导体种类 Conductor | 最大外径 mm Max OD | | | | | |
|---|---|---|---|---|---|---|---|
| | | VV | VPV | FV | FP1V | FF | FP1F |
| 10×2×1.5 | A | 23.5 | 26.0 | 19.8 | 22.5 | 17.5 | 20.0 |
| | R | 25.0 | 27.5 | 21.0 | 23.5 | 19.0 | 21.5 |
| 10×2×2.5 | A | 26.5 | 29.0 | 22.5 | 25.0 | 20.5 | 23.0 |
| | R | 28.5 | 31.0 | 24.5 | 26.5 | 22.0 | 24.5 |
| 12×2×0.5 | A | 17.5 | 20.5 | 16.5 | 19.0 | 14.5 | 17.0 |
| | R | 18.0 | 21.0 | 17.6 | 20.0 | 15.5 | 18.0 |
| 12×2×1.0 | A | 23.0 | 25.5 | 19.4 | 22.0 | 17.0 | 19.5 |
| | R | 24.0 | 27.0 | 20.5 | 23.0 | 18.5 | 20.5 |
| 12×2×1.5 | A | 25.0 | 27.5 | 21.0 | 23.5 | 18.5 | 21.0 |
| | R | 26.5 | 29.0 | 22.5 | 25.0 | 20.0 | 22.5 |
| 12×2×2.5 | A | 28.0 | 30.0 | 24.0 | 26.0 | 21.5 | 24.0 |
| | R | 30.0 | 32.0 | 26.0 | 28.0 | 22.5 | 26.0 |
| 14×2×0.5 | A | 18.5 | 22.0 | 17.5 | 20.5 | / | / |
| | R | 19.0 | 22.5 | 18.9 | 21.5 | / | / |
| 14×2×1.0 | A | 24.5 | 27.5 | 20.5 | 23.5 | / | / |
| | R | 25.5 | 29.0 | 22.0 | 25.0 | / | / |
| 14×2×1.5 | A | 27.0 | 29.0 | 22.0 | 25.0 | / | / |
| | R | 28.5 | 30.5 | 24.0 | 26.5 | / | / |
| 14×2×2.5 | A | 30.0 | 32.0 | 26.0 | 28.0 | / | / |
| | R | 32.0 | 34.0 | 28.0 | 30.0 | / | / |
| 16×2×0.5 | A | 19.5 | 22.5 | 18.5 | 21.0 | / | / |
| | R | 20.0 | 23.5 | 19.7 | 22.5 | / | / |
| 16×2×1.0 | A | 25.5 | 28.5 | 21.5 | 24.5 | / | / |
| | R | 27.0 | 30.0 | 23.0 | 26.0 | / | / |
| 16×2×1.5 | A | 28.0 | 30.5 | 23.0 | 26.0 | / | / |
| | R | 29.5 | 32.5 | 25.0 | 27.5 | / | / |
| 16×2×2.5 | A | 31.0 | 33.5 | 27.0 | 29.0 | / | / |
| | R | 33.0 | 36.0 | 29.0 | 31.0 | / | / |
| 19×2×0.5 | A | 21.0 | 24.5 | 20.0 | 23.0 | / | / |
| | R | 22.0 | 25.5 | 21.0 | 24.0 | / | / |
| 19×2×1.0 | A | 28.0 | 31.0 | 23.0 | 26.5 | / | / |
| | R | 29.5 | 32.5 | 24.5 | 28.0 | / | / |
| 19×2×1.5 | A | 33.0 | 33.0 | 25.0 | 28.0 | / | / |
| | R | 32.0 | 35.0 | 27.0 | 30.0 | / | / |
| 19×2×2.5 | A | 33.5 | 36.5 | 29.0 | 31.5 | / | / |
| | R | 36.0 | 39.0 | 31.5 | 34.0 | / | / |

订货须知：

1、订货时务必注明产品型号、规格、导体种类（A为独股导体，R为多股软导体）、数量等；

2、根据双方协议允许任何长度交货；长度计量误差不超过±0.5%。

Note for ordering:

1.When ordering, be sure to specify the product model, specification, type of conductor(A is single strand conductor, R is multi strand flexible conductor), quantity, etc.

2.Allow any length of delivery according to the agreement between the parties.The length measurement error is not more than ±0.5%.

# 特种电缆 Special Cable






通信电源用阻燃耐火软电缆
Flame Retardant and Fire Resistant Flexible Cable for Telecommunication Power supply

丁腈聚氯乙烯复合物软电缆
Butyronitrile PVC Compound Flexible Cable

光伏电缆
Photovoltaic cable

风力发电用电缆
Wind power cable

AF-200、AF-260型氟塑料安装线
AF-200 & AF-260 Fluoroplastics Installation Wire

180℃电机绕组引接软电缆
180℃ Soft Cable for Motor Winding Connection

电缆分配系统用物理发泡聚乙烯绝缘同轴电缆
Coaxial Cable with Physically Foamed PE Insulation for Cable Distribution System

实芯聚乙烯绝缘柔软射频电缆
Solid-polyethene insulated flexible radio-frequency cables

现场总线电缆
Fieldbus Cable

RS485通讯电缆
RS485 Communication Cable

# 通信电源用阻燃耐火软电缆

## Flame Retardant and Fire Resistant Flexible Cable for Telecommunication Power supply

本产品适用于通信局站及建筑等输、配电系统中的通信电源用阻燃耐火电缆。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。

Flame retardant and fire resistant cable is used in telecommunication power supply and distribution system of telecommunications agencies/stations/buildings 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 Executive standard

YD/T1173-2016。

YD/T1173-2016.

## 二、型号及名称 Type and Description

| 型号 Type | 名称 Description | 适用范围 Application |
|---|---|---|
| ZA-RV | 聚氯乙烯绝缘阻燃A类软电缆<br>Category A,flame retardant flexible cable with PVC insulation | 架空、管道、室内、电缆沟、设备安装，铠装电缆可地下直埋。<br>To be installed overhead, indoor in the pipe, cable furrow, equipment,armored cable can be directly buried. |
| ZA-RVV | 铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃A类软电缆<br>Category A,flame retardant flexible cable with PVC insulation ,PVC sheath | |
| ZA-RVVV | 铜芯聚氯乙烯绝缘双层聚氯乙烯护套阻燃A类软电缆<br>Category A,flame retardant flexible cable with PVC insulation ,double PVC sheath | |
| ZA-RVV22 | 聚氯乙烯绝缘双钢带铠装聚氯乙烯护套阻燃A类软电缆<br>Category A,flame retardant flexible cable with PVC insulation , steel tape armored,PVC sheath | |
| WDZ-RY | 聚烯烃绝缘无卤低烟单根阻燃软电缆<br>Single vertical flame retardant flexible cable with LSZH PO insulation | |
| WDZC-RYY | 聚烯烃绝缘聚烯烃护套无卤低烟阻燃C类软电缆<br>Category C, flame retardant flexible cable with LSZH PO insulation and sheath | |
| WDZC-RYY23 | 聚烯烃绝缘双钢带铠装聚烯烃护套无卤低烟阻燃C类软电缆<br>Category C, flame retardant flexible cable with LSZH PO insulation, steel tape armored and LSZH PO sheath | |
| WDZN-RY | 聚烯烃绝缘无卤低烟单根阻燃耐火软电缆<br>Single vertical fire resistant flexible cable with LSZH PO insulation | |
| WDZCN-RYY | 聚烯烃绝缘聚烯烃护套无卤低烟阻燃C类耐火软电缆<br>Category C,flame retardant and Fire resitant flexible cable with LSZH PO insulation and sheath | |
| WDZCN-RYY23 | 聚烯烃绝缘双钢带铠装聚烯烃护套无卤低烟阻燃C类耐火软电缆<br>Category C,flame retardant and Fire resitant flexible cable with LSZH PO insulation, steel tape armored and LSZH PO sheath. | |

## 三、生产范围 Production Scope

| 型号 Type | 芯数 Core No. | 标称截面 mm² Nominal cross section area | 额定电压 Rated voltage |
|---|---|---|---|
| ZA-RV、WDZ-RY | 1 | 1.5~500 | 450/750V |
| WDZN-RY | | 4~500 | |
| ZA-RVV、WDZC-RYY | 1 | 1.5~500 | 0.6/1kV |
| WDZCN-RYY | | 4~500 | |
| ZA-RVV、WDZC-RYY | 2、3、3+1、4、4+1、3+2、5 | 2.5~300 | 0.6/1kV |
| ZA-RVV22、WDZC-RYY23 | | | |
| WDZCN-RYY | | 10~300 | 0.6/1kV |
| WDZCN-RYY23 | | | |
| ZA-RVVV | 2、3、4 | 2.5~35 | 300/500V |

## 四、使用条件

1、电缆额定工作电压：

300/500V，450/750V，600/1000V；

2、电缆导体长期允许最高工作温度应不大于70℃；

3、电缆敷设时最低环境温度为0℃；

4、电缆允许弯曲半径：非铠装电缆中，阻燃型不小于电缆外径的6倍，耐火型为电缆外径的12倍；铠装型电缆，不小于电缆外径的20倍；

5、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.Rated working voltage of cable:
300/500V、450/750V、600/1000V.
2.Max long-term working temperature of cable conductor: 70℃.
3.Min. ambient temperature for cable installation: 0℃.
4.Allowed bending radium:Unarmored cable,Flame retardant cable is not less than 6 times of OD of cable.Fire resistant cable is not less than 12 times of OD of cable.Armores cable is not less than 20 times of OD of cable.
5.Max. working temperature of cable conductor is 160℃ during short circuit(the longest lasting time shall be no more than 5s).

## 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:

| 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 | 4.95 | 3.30 | 1.91 | 1.21 | 0.780 | 0.554 | 0.386 |
| 标称截面 mm² 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 Max. DC resistance of conductor at 20℃ | 0.272 | 0.206 | 0.161 | 0.129 | 0.106 | 0.0801 | 0.0641 | 0.0486 | 0.0384 |

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 | 500 | 0.0026 |

试验条件：
① 试验长度：5m；
② 浸水时间：1h；
③ 水温：70℃。

Testing condition
Testing length: 5m.
Time for immersion in the water is one hour.
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.

| 电压 V Voltage | | 持续时间 Lasting time |
|---|---|---|
| 额定电压 Rated voltage | 试验电压 Testing voltage | |
| 450/750 | 2500 | 5min |
| 300/500 | 2000 | |
| 600/1000 | 3500 | |

# 丁腈聚氯乙烯复合物软电缆

## Butyronitrile PVC Compound Flexible Cable

本产品适用于交流额定电压450/750V及以下控制、监控回路、各种移动电器、无线电设备和照明灯座接线用以及保护线路等要求在低温下运行的场合。

This product is suitable for the AC rated voltage up to and including 450/750V, the requirements for operation at low temperature,with using in Control/monitoring circuits, various mobile appliances, radio equipment and lighting socket connection and protection lines, etc.

## 一、生产执行标准

企业标准。

## Executive standard

Enterprise standard.

## 二、使用特点

1、电线导体长期工作温度：硅橡胶绝缘不超过180℃；丁腈聚氯乙烯绝缘不超过70℃；

2、电线最低环境温度为-40℃；

3、允许弯曲半径一般应不小于电缆外径的8倍；软结构电缆应不小于电缆外径的6倍。

## Operational performance

1.Long-term working temperature of wire conductor is no more than 180℃ for cable with Silicon Rubber Insulation, 70℃ for that with PVC insulation.

2.Min. environment temperature of wire is -40℃.

3.Bending radius allowed by wire is no less than 8 times that of cable O.D OR 6 times for cable with soft structure.

## 三、型号名称

## Type and Description

| 型号 Type | 名称 Description | 备注 Note |
|---|---|---|
| YVFR | 铜芯丁腈聚氯乙烯绝缘及护套软电力电缆<br>Soft power cable with Cu core, butadiene PVC insulation and sheath | 1、电缆如需镀锡铜线编织屏蔽结构，应将原型号中的“P”改为“P1”。<br>2、如导体需采用镀锡铜线，应在订货中说明，型号中不另作规定。<br>1.If tin-plated copper wire braided shielding is needed, the letter “P” in the original type of cable shall be changed into the letter “P1”.<br>2.If tinned copper wire conductor is used, the relevant description shall be made in the order, but it is not necessary to give other description in cable type. |
| YVFB | 铜芯丁腈聚氯乙烯绝缘及护套扁平型软电力电缆<br>Flat type soft power cable with Cu core, butadiene PVC insulation and sheath | |
| YGVFB | 铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软电力电缆<br>Flat type soft power cable with Cu core, silicon rubber insulation and butadiene PVC sheath | |
| KVFR | 铜芯丁腈聚氯乙烯绝缘及护套软控制电缆<br>Soft control cable with Cu core, butadiene PVC insulation and sheath | |
| KVFRP | 铜芯丁腈聚氯乙烯绝缘及护套铜丝编织屏蔽软控制电缆<br>Soft control cable with Cu core, butadiene PVC insulation and sheath, copper wire braided shielding | |
| KVFB | 铜芯丁腈聚氯乙烯绝缘及护套扁平型软控制电缆<br>Flat type soft control cable with Cu core, butadiene PVC insulation and sheath | |
| KGVFB | 铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软控制电缆<br>Flat type soft control cable with Cu core, silicon rubber insulation and butadiene PVC sheath | |

## 四、规格范围

## Type and Specication scope

| 型号 Type | 规格范围 Specification scope |
|---|---|
| YVFR<br>YVFB<br>YGVFB | 1 core：1.5~300mm²<br>2、3、4、5、3+1core：1.5~185mm² |
| KVFR<br>KVFRP | 2~61cores：0.5~2.5mm² |
| KVFB<br>KGVFB | 2~10cores：1.5~6mm² |

## 五、主要技术指标

1、20℃时导体最大直流电阻值应满足下规定：

## Main Technical Parameter

1.Max.DC resistance of conductor at 20℃ shall meet the requirement of the following table.

| 标称截面(mm²)<br>Nominal cross section area | 20℃时导体直流电阻电≤Ω/km<br>Conductor DC resistance at 20℃ | |
|---|---|---|
| | 不镀锡<br>Not tinned | 镀锡<br>Tinned |
| 0.5 | 39.0 | 40.1 |
| 0.75 | 26.0 | 26.7 |
| 1.0 | 19.5 | 20.0 |
| 1.5 | 13.3 | 13.7 |
| 2.5 | 7.98 | 8.21 |
| 4 | 4.95 | 5.09 |
| 3 | 3.30 | 3.39 |
| 10 | 0.91 | 1.95 |
| 16 | 1.21 | 1.24 |
| 25 | 0.78 | 0.795 |
| 35 | 0.554 | 0.565 |
| 50 | 0.386 | 0.393 |
| 70 | 0.272 | 0.277 |
| 95 | 0.206 | 0.210 |
| 120 | 0.161 | 0.164 |
| 150 | 0.129 | 0.132 |
| 185 | 0.106 | 0.108 |

2、成品控制电缆应经受工频交流试验电3000V、5min电压试验，绝缘无击穿；

3、成品电力电缆应经受工频交流试验电压3500V、5min电压试验，绝缘无击穿。

2.The finished product control cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3000V, 5min), the insulation is not breakdown.

3.The finished product power cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3500V, 5min), the insulation is not breakdown.

## 六、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

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 光伏电缆

## Photovoltaic cable

光伏发电产生的低压直流电需转换为交流电，连接光伏电池与交直流逆变器间的电缆即为光伏电缆。本产品适用于最高允许1.8kV（线芯对线芯，非接地系统）直流电压、在光伏系统中CD侧使用的单芯软电缆（电线），该产品适合于II类安全等级下使用，电缆运行的环境温度最高到90℃，电缆可以多根并联使用。本产品运用先进的辐照交联工艺，采用低烟无卤阻燃材料生产，产品具有耐高温、抗臭氧、抗紫外线短时过载能力强、寿命长、耐磨、耐油、防腐、高抗拉等优点。

Low voltage DC generated by Photovoltaic should be converted into AC.Photovoltaic cable is used to connect Photovoltaic battery and DC/AC converter. It applies to maximum 1.8KV DC (core to core, non grounded system) In photovoltaic system single core cable (wire) is used in DC side, besides photovoltaic cable is used in Class II class safety level and working in environment temperature of Max 90 ℃, We can use many parallel cables. It adopts advanced process of irradiation XLPE and it is used low smoke halogen free material with advantage of high temperature resistance, ozone resistance, ultraviolet resistance, aging resistance, oil resistance, wear resistance, erosion resistance, high tensile and strong instantaneous overload capacity.

### 一、生产执行标准

EN 50618，2Pfg1169。

### Executive standard

EN 50618, 2Pfg1169.

### 二、温度范围

环境温度：-40℃到+90℃；

导体最高工作温度：120℃；电缆运行的环境温度最高到90℃，依据EN60216-1标准进行考核，其绝缘和护套的温度指数是120℃，5秒钟短路温度是200℃，期望使用寿命是25年。

### Temperature Range

Ambient temperature: -40℃ to +90℃
Max working temperature of conductor: 120℃; working temperature of cable should not exceed 90℃, the temperature index of insulation and sheath is 120℃, The temperature of 5 seconds short circuit is 200℃ according to EN60216-1 standard. The expected working life is 25 years.

### 三、型号规格

### Type and Specication

| 型号<br>Type | 电压等级 kV<br>Rated Voltage | 导体<br>Conductor | 芯数<br>Core number | 标称截面 mm²<br>Nominal cross section area | 名称<br>Name |
|---|---|---|---|---|---|
| PV1-F | AC 0.6/1kV<br>DC 1.8kV | 镀锡铜丝<br>Tinned copper | 1 | 1.5~35 | 无卤阻燃辐照绝缘和无卤阻燃辐照护套料光伏电缆<br>Photovoltaic cable with halogen free flame resistant irradiated insulation and sheath |
| H1Z2Z2-K | AC 1.0/1.0kV<br>DC 1.5kV | 镀锡铜丝<br>Tinned copper | 1 | 1.5~35 | 无卤阻燃辐照绝缘和无卤阻燃辐照护套料光伏电缆<br>Photovoltaic cable with halogen free flame resistant irradiated insulation and sheath |

### 四、电缆尺寸参数

### Cable Dimension Parameter

| 芯数*标称截面<br>Core No.*normal cross section area | 导体种类<br>Conductor category | 参考外径<br>Outer diameter(mm) |
|---|---|---|
| 1*1.5 | 5 | 4.3 |
| 1*2.5 | 5 | 4.7 |
| 1*4 | 5 | 5.2 |
| 1*6 | 5 | 6.2 |
| 1*10 | 5 | 7.0 |
| 1*16 | 5 | 8.4 |
| 1*25 | 5 | 10.5 |
| 1*35 | 5 | 11.8 |

## 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5类导体的规定；

2、交流耐电压试验：6.5kV/5min不击穿。

## Main Technical Parameter

1.Max. conductor DC resistance at 20℃ shall meet the requirement of class 5 conductor stipulated in GB/T3956 standard.

2.Cable should endure AC voltage withstand test:6.5KV/5min without puncture.

## 六、电缆载流量

## Current Carrying Capacity of Cable

| 标称截面 Normal cross section area | 安装种类 Type of Installation | | |
|---|---|---|---|
| | 单芯电缆空气中自由敷设（A） To be laid in the air of single core cable | 单芯电缆敷设在设备表面（A） Single core cable to be laid on the surface of equipment | 在设备表面相邻敷设（A） Cable placing nearby the surface of equipment |
| 1.5 | 30 | 29 | 24 |
| 2.5 | 41 | 39 | 33 |
| 4 | 55 | 52 | 44 |
| 6 | 70 | 67 | 57 |
| 10 | 98 | 93 | 79 |
| 16 | 132 | 125 | 107 |
| 25 | 176 | 167 | 142 |
| 35 | 218 | 207 | 176 |

# 风力发电用电缆

## Wind power cable

本产品适用于风力发电设备中叶轮机及固定安装塔类或其他类似场合的额定电压1.8/3kV及以下风力发电系统或类似的系统耐扭曲软电缆。

Flexing cable is used in wind turbine and fixed erection installation towers with rated voltage 1.8/3kV and below wind turbine system or similar system.

## 一、生产执行标准

TICW1-2009及企业标准。

## Executive standard

TICW1-2009 and Enterprise standard.

## 二、使用特性

1、电缆的额定电压$U_0$/U分别为：
450/750V、0.6/1kV、1.8/3kV；

2、正常运行时，导体最高工作温度（电缆额定工作温度）分别为：电压等级450/750V电缆：70℃；电压等级0.6/1kV、1.8/3kV电缆：90℃；

3、电缆的最小弯曲半径为电缆直径的6倍；

4、电缆适应的最低环境温度，普通型：-25℃；耐寒型：-40℃；耐严寒型；-55℃。

## Operational performance

1.Rated Voltage $U_0$/U:450/750V、0.6/1kV、1.8/3kV.
2.Max. temperature of cable conductor during normal operating condition ( cable rated working temperature): 70℃ for cable with voltage grade 450/750V, and 90℃ for cable with voltage grade 0.6/1kV、1.8/3kV.
3.Min bending radius of cable is 6 times that of cable diameter.
4.Lowest environment temperature: -25℃ for common type cable, -40℃ for cold-resistant type cable, and -50℃ for bitter cold resistant type cable.

## 三、产品型号中和字母代表意义

风力发电用电缆系列代号 …… FD
阻燃C类型…… ZC（低烟无卤要求正在考虑中）
铜导体…… （T）省略
乙丙橡皮绝缘或其他相当的合成弹性体绝缘 …… E
硅橡胶或其相当的混合物绝缘 …… G
硅橡胶或其相当的混合物护套 …… G
聚氨酯弹性体护套（TPU） …… U
氯磺化聚乙烯橡皮或其他相当的合成弹性体护套 …… H
氯丁橡皮或其他相当的合成弹性体护套…… F
热塑性弹性体护套…… S

## Code Meaning in specification

Wind power cable series code …… FD
Flame retardant category C …… ZC
Copper conductor …… (T)omitted
Ethylene propylene rubber insulation or equaled synthetic elastomer …… E
Silicone rubber or its equivalent mixture insulation …… G
Silicon rubber or equaled compound sheath …… G
Polyurethane elastomer sheath (TPU) …… U
Chlorosulfonate polyethylene rubber or equaled synthetic elastomer sheath …… H
Chloroprene rubber or equaled synthetic elastomer sheath …… F
TPE sheath …… S

## 四、型号名称

## Type and Description

| 型号 Type | 额定电压 Rated voltage | 名称 Description |
|---|---|---|
| FDEF-25(-40) | 450/750V | 铜芯乙丙橡皮绝缘氯丁橡皮护套风力发电用（耐寒）耐扭曲软电缆 Copper core EPR insulation chloroprene rubber sheath, wind power generation (cold resistant) resistance to distortion soft cable. |
| FDEF-25(-40) | 450/750V | 铜芯乙丙橡皮绝缘热塑弹体护套风力发电用（耐寒）耐扭曲软电缆 Copper core flexible cable, With EPR insulation TPE sheath, wind power generation (cold resistant) resistance to distortion |
| FDGG-40(-55) | 0.6/1KV 1.8/3KV | 铜芯硅橡胶绝缘硅橡胶护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, With Silicone Rubber insulation and sheath, used in wind power generation, resistance to distortion and cold (bitter cold) |
| FDGU-40(-55) | 0.6/1KV 1.8/3KV | 铜芯硅橡胶绝缘聚氨酯弹体护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, With Silicone Rubber insulation and TPU sheath,Used in wind power generation, resistance to distortion and cold (bitter cold) |
| FDEU-40(-55) | 0.6/1KV 1.8/3KV | 铜芯乙丙橡皮绝缘聚氨酯护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, with EPR insulation and PU sheath,used in wind power generation , resistance to distortion and cold (bitter cold) |
| FDEG-40(-55) | 0.6/1KV 1.8/3KV | 铜芯乙丙橡皮绝缘硅橡胶护套风力发电用耐寒（耐严寒）耐扭曲软电缆 Copper core flexible cable, with EPR insulation and Silicone Rubber sheath,used in wind power generation , resistance to distortion and cold (bitter cold) |

| | | |
|---|---|---|
| FDEH-25(-40) | 0.6/1kV<br>1.8/3kV | 铜芯乙丙橡皮绝缘氯磺化聚乙烯护套风力发电用耐寒耐扭曲软电缆<br>Copper core flexible cable, with EPR insulation and CSM sheath, used in wind power generation , resistance to distortion and cold |
| FDES-25(-40) | 0.6/1kV<br>1.8/3kV | 铜芯乙丙橡皮绝缘热塑弹体护套风力发电用（耐寒）耐扭曲软电缆<br>Copper core flexible cable, with EPR insulation and TPE sheath, used in wind power generation , resistance to distortion and cold (bitter cold) |

注：
1）如氯磺化聚乙烯橡皮护套电缆、氯丁橡皮护套电缆和热塑性弹体护套电缆能够通过试验温度过-40℃的全部低温试验，其最低使用环境温度为-40℃，相应型号为FDEH-40、FDEF-40、FDES-40；
2）阻燃电缆在型号前加“ZC-”。

1) There have some kinds of cables that passed the low temperature test of -40℃, such as CSM sheath cable (FDEH-40), chloroprene rubber sheath cable (FDEF-40) and TPE sheath cable (FDES-40). with the lower working temperature is -40℃.
2) Prefix"ZC-"should be added to the cable type if order flame resistant cable.

## 五、电缆规格 Specication

| 型号<br>Type | 额定电压<br>Rated voltage | 芯数<br>Core No. | 导体标称截面积 mm²<br>Nominal cross section area mm² |
|---|---|---|---|
| FDEF | 450/750V<br>0.6/1kV | 1 | 1.5～400 |
| FDES | | 2 | 1～25 |
| FDGG | | 3 | 1～300 |
| FDGU | | 3+1 | 4～185 |
| FDEU | | 4 | 1～300 |
| FDEG | | 5 | 1～25 |
| FDEH | 1.8/3kV | 1 | 10～400 |
| FDES | | 3 | 10～240 |

## 六、技术要求 Technical requirement

1 导体

1.1 导体应采用GB/T 3956规定的第5种柔软圆形导体。导体材料应为退火软铜线，可以不镀锡或镀锡。

1.2 导体20℃时的直流电阻应符合GB/T3956的规定。

1.3 导体表面允许用非吸湿性带料作重叠绕包或纵包。

2 绝缘

2.1 绝缘材料应为下表所列的挤包固体介质的一种。绝缘机械物理性能应符合附录A中表A.1的规定。

Conductor
Conductor adopts class 5 soft circle annealed (tinned) copper wire according to GB/T 3956.
DC resistance of conductor at 20 ℃ should confirm with GB/T3956.
Conductor surface allows moisture resistant material overlap or longitudinal wrap.
Insulation
Insulated material should be one of extruded solid dielectrics in table. Mechanical and physical character should confirm with requirement table A.1.in appendix A

**绝缘混合料** **Insulation compound**

| 绝缘混合料<br>Insulation compound | 代号<br>Code | 导体最高温度 The Max. temperature of conductor | |
|---|---|---|---|
| | | 正常运行时<br>Normal operation | 短路时（最长持续5S）<br>Short circuit (the longest lasting time is 5S) |
| 70℃乙丙橡胶混合物或其他相当的合成弹性体<br>70℃ EPR compound or equivalent synthetic elastomer | IE4 | 70 | 140 |
| 90℃乙丙橡胶混合物或其他相当的合成弹性体<br>90℃ EPR compound or equivalent synthetic elastomer | EPR | 90 | 250 |
| 硅橡胶混合物或其他相当的合成弹性体<br>Silicon rubber compound or equivalent synthetic elastomer | G | 90 | 250 |

2.2 绝缘厚度的标称值应符合表4的规定。绝缘厚度的平均值应不小于标称值，绝缘最薄处厚度应不小于标称值的90%-0.1mm。

Normal thickness of insulation should confirm with table 4, average thickness of insulation should be no less than nominal value, the thinnest point should be no less than 90%-0.1mm of nominal value.

**绝缘标称厚度** **Nominal thickness of insulation**

| 导体标称截面积 mm² Nominal cross section area of conductor | 绝缘厚度标称值 mm Nominal thickness of insulation | | 导体标称截面积 mm² Nominal cross section area of conductor | 绝缘厚度标称值 mm Nominal thickness of insulation | | 导体标称截面积 mm² Nominal cross section area of conductor | 绝缘厚度标称值 mm Nominal thickness of insulation | |
|---|---|---|---|---|---|---|---|---|
| | 450/750V 0.6/1kV | 1.8/3kV | | 450/750V 0.6/1kV | 1.8/3kV | | 450/750V 0.6/1kV | 1.8/3kV |
| 1 | 0.8 | / | 16 | 1.2 | 2.1 | 120 | 1.8 | 2.4 |
| 1.5 | 0.8 | / | 25 | 1.4 | 2.2 | 150 | 2.0 | 2.6 |
| 2.5 | 0.9 | / | 35 | 1.4 | 2.2 | 185 | 2.2 | 2.6 |
| 4 | 1.0 | / | 50 | 1.6 | 2.2 | 240 | 2.4 | 2.8 |
| 6 | 1.0 | / | 70 | 1.6 | 2.2 | 300 | 2.6 | 2.8 |
| 10 | 1.2 | 2.1 | 95 | 1.8 | 2.4 | 400 | 2.8 | 3.0 |

2.3 绝缘应紧密挤包在导体上，断面无目力可见的气泡和杂质，外观圆整且容易与导体剥离。

2.4 绝缘线芯应按GB/T3048的规定经受下表规定的工频火花试验作为中间检查。

Conductor should be closely wrapped with extruded insulation, Besides there is no visible bubble and impurities, it looks round, even and easily strip.

Core should be tested by power frequency sparking testing meeting the standard of GB/T3048 in table.

**火花试验电压** **Sparking test**

| 绝缘厚度标称值 mm Nominal thickness of insulation | 试验电压 kV Testing voltage | 绝缘厚度标称值 mm Nominal thickness of insulation | 试验电压 kV Testing voltage |
|---|---|---|---|
| 0.5 < δ≤1.0 | 6 | 2.0 < δ≤2.5 | 20 |
| 1.0 < δ≤1.5 | 10 | 2.5 < δ | 25 |
| 1.5 < δ≤2.0 | 15 | / | / |

2.5 1芯~5芯电缆绝缘线芯的识别

2.5.1 一般要求电缆绝缘线芯应采用颜色或其它合适的方法进行识别。如客户无特殊要求，允许采用数字编码识别。除绿/黄组合色外，电缆的每一线芯应只用一种颜色。任何多芯电缆均不应使用不是组合色用的绿色和黄色。

2.5 Identification of 1 core to 5 core Requirement

2.5.1 Usually we distinguish Insulated Conductors with different color or other proper methods, if the client has no requirement, we use number code. One Insulated Conductors use one color except green/yellow.Multi-core cable should avoid green or yellow which is not used in the Combination color .

3 护套

3.1 护套材料应为表6所列的挤包固体介质的一种。护套材料应与绝缘材料的工作温度等级相适应，多芯电缆护套应不与绝缘相粘连。护套机械物理性能应符合附录A中表A.2的规定。

3.Sheath

3.1 Sheath material should be one of the extruded solid dielectrics in table 6. Working temperature of sheath material should match with that of insulation, sheath of multi-core cable cannot adhere to the insulation. Sheath mechanical performance should meeting the requirement of table A2 in appendix A

**护套混合料** **Sheathing compound**

| 护套混合料 Sheathing compound | 代号 Code | 长期允许工作温度 Long-term working temperature |
|---|---|---|
| 氯丁胶混合物或其他相当的合成弹性体 Chloroprene rubber compound or equivalent synthetic elastomer | SE4 | 70 |
| 热塑性弹性体 TPE | TPV-70<br>TPV-90 | 70<br>90 |
| 氯磺化聚乙烯橡胶混合物或其他相当的合成弹性体 Chlorosulfonated polyethylene rubber compound or equivalent synthetic elastomer | SH | 90 |
| 硅橡胶混合物或其他相当的合成弹性体 Silicon rubber compound or equivalent synthetic elastomer | G | 90 |
| 聚氨酯弹性体 TPU | TPU | 90 |

4.2 电缆护套厚度的标称值应符合表7的规定。护套厚度的平均值应不小于标称值，其最薄处厚度应不小于标称值的85%-0.1mm。

4.3 电缆外径应符合表7的规定。护套表面光滑、圆整、色泽基本一致，断面应无目力可见的气泡和杂质。

Normal thickness of cable sheath should confirm the requirement in table 7, average thickness should be no less than nominal thickness, the thinnest point should be no less than 85%-0.1mm of nominal thickness.

Outer diameter should confirm the requirement in table 7, smooth, round, consistent surface, no visible bubble and impurities.

## 电缆尺寸 Cable size

| 芯数及导体标称截面积 mm² Core No. *nominal cross section area | 护套厚度标称值 mm Nominal thickness of sheath | | | | 平均外径 mm Average Outer diameter | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 450/750V、0.6/1kV | | 1.8/3kV | | 450/750V、0.6/1kV | | | | 1.8/3kV | | | |
| | SE4 SH TPV G | TPU | SE4 SH TPV G | TPU | SE4、SH、TPV、G护套 SE4、SH、TPV、G sheath | | TPU护套 TPU sheath | | SE4、TPV、SH、G护套 SE4、TPV、SH、Gsheath | | TPU护套 TPU sheath | |
| | | | | | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 lower limit | 上限 Upper limit |
| 1*1.5 | 1.4 | 0.9 | - | - | 5.7 | 7.1 | 4.8 | 5.9 | - | - | - | -- |
| 1*2.5 | 1.4 | 0.9 | - | - | 6.3 | 7.9 | 5.4 | 6.7 | - | - | - | -- |
| 1*4 | 1.5 | 1.0 | - | - | 7.2 | 9.0 | 6.3 | 7.8 | - | - | - | -- |
| 1*6 | 1.6 | 1.0 | - | - | 7.9 | 9.8 | 6.7 | 8.4 | - | - | - | -- |
| 1*10 | 1.8 | 1.2 | 1.8 | 1.2 | 9.5 | 11.9 | 8.3 | 10.5 | 11.3 | 13.7 | 10.1 | 12.3 |
| 1*16 | 1.9 | 1.2 | 1.9 | 1.2 | 10.8 | 13.4 | 9.5 | 11.7 | 12.6 | 15.2 | 11.3 | 13.5 |
| 1*25 | 2.0 | 1.3 | 2.0 | 1.3 | 12.7 | 15.8 | 11.4 | 14.1 | 14.3 | 17.4 | 13.0 | 15.6 |
| 1*35 | 2.2 | 1.4 | 2.2 | 1.4 | 14.3 | 17.9 | 12.7 | 16.0 | 15.9 | 19.5 | 14.3 | 17.5 |
| 1*50 | 2.4 | 1.5 | 2.4 | 1.5 | 16.5 | 20.6 | 14.8 | 18.4 | 17.7 | 21.8 | 16.0 | 19.6 |
| 1*70 | 2.6 | 1.6 | 2.6 | 1.6 | 18.6 | 23.3 | 16.6 | 20.9 | 19.8 | 24.5 | 17.8 | 22.1 |
| 1*95 | 2.8 | 1.8 | 2.8 | 1.8 | 20.8 | 26.0 | 18.8 | 23.6 | 22.0 | 27.2 | 20.0 | 24.8 |
| 1*120 | 3.0 | 2.0 | 3.0 | 2.0 | 22.8 | 28.6 | 20.8 | 26.3 | 24.0 | 29.8 | 22.0 | 27.4 |
| 1*150 | 3.2 | 2.1 | 3.2 | 2.1 | 25.2 | 31.4 | 23.1 | 28.9 | 26.4 | 32.6 | 24.3 | 30.0 |
| 1*185 | 3.4 | 2.2 | 3.4 | 2.2 | 27.6 | 34.4 | 25.2 | 31.7 | 28.4 | 35.2 | 26.0 | 32.5 |
| 1*240 | 3.5 | 2.3 | 3.5 | 2.3 | 30.6 | 38.3 | 28.2 | 35.6 | 31.4 | 39.1 | 29.0 | 36.5 |
| 1*300 | 3.6 | 2.4 | 3.6 | 2.4 | 33.5 | 41.9 | 31.1 | 39.2 | 33.9 | 42.3 | 31.5 | 39.5 |
| 1*400 | 3.8 | 2.5 | 3.8 | 2.5 | 37.4 | 46.8 | 34.9 | 43.8 | 37.8 | 47.2 | 35.3 | 44.3 |
| 2*1.0 | 1.3 | 0.9 | - | -- | 7.7 | 10.0 | 6.9 | 9.0 | -- | -- | -- | -- |
| 2*1.5 | 1.5 | 1.0 | - | -- | 8.5 | 11.0 | 7.6 | 9.8 | -- | -- | -- | -- |
| 2*2.5 | 1.7 | 1.1 | - | -- | 10.2 | 13.1 | 9.0 | 11.6 | -- | -- | -- | -- |
| 2*4 | 1.8 | 1.2 | - | -- | 11.8 | 15.1 | 10.6 | 13.7 | -- | -- | -- | -- |
| 2*6 | 2.0 | 1.3 | - | -- | 13.1 | 16.8 | 11.8 | 15.1 | -- | -- | -- | -- |

(续)

**Sequel**

| 芯数及导体标称截面积 mm² Core number & Nominal cross section area | 护套厚度标称值 mm Nominal thickness of sheath | | | | 平均外径 mm Average Outer diameter | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 450/750V 0.6/1kV | | 1.8/3kV | | 450/750V、0.6/1kV | | | | 1.8/3kV | | | |
| | SE SH TPV G | TPU | SE4 SH TPV G | TPU | SE4、SH、TPV、G护套 SE4、SH、TPV、G sheath | | TPU护套 TPU sheath | | SE4、TPV、SH、G护套SE4、TPV、SH、G sheath | | TPU护套 TPU sheath | |
| | | | | | 下限 lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit |
| 2*10 | 3.1 | 2.0 | - | - | 17.7 | 22.6 | 15.6 | 19.9 | - | - | - | - |
| 2*16 | 3.3 | 2.1 | - | - | 20.2 | 25.7 | 17.9 | 22.8 | - | - | - | - |
| 2*25 | 3.6 | 2.3 | - | - | 24.3 | 30.7 | 21.8 | 27.6 | - | - | - | - |
| 3*1.0 | 1.4 | 0.9 | - | - | 8.3 | 10.7 | 7.4 | 9.5 | - | - | - | - |
| 3*1.5 | 1.6 | 1.0 | - | - | 9.2 | 11.9 | 8.0 | 10.4 | - | - | - | - |
| 3*2.5 | 1.8 | 1.1 | - | - | 10.9 | 14.0 | 9.6 | 12.4 | - | - | - | - |
| 3*4 | 1.9 | 1.2 | - | - | 12.7 | 16.2 | 11.3 | 14.5 | - | - | - | - |
| 3*6 | 2.1 | 1.4 | - | - | 14.1 | 18.0 | 12.8 | 16.3 | - | - | - | - |
| 3*10 | 3.3 | 2.1 | 3.3 | 2.1 | 19.1 | 24.2 | 16.8 | 21.4 | 23.0 | 28.1 | 20.6 | 25.2 |
| 3*16 | 3.5 | 2.3 | 3.5 | 2.3 | 21.8 | 27.6 | 19.5 | 24.7 | 25.7 | 31.5 | 23.3 | 28.6 |
| 3*25 | 3.8 | 2.5 | 3.8 | 2.5 | 26.1 | 33.0 | 23.6 | 29.9 | 29.6 | 36.5 | 27.1 | 33.5 |
| 3*35 | 4.1 | 2.7 | 4.1 | 2.7 | 29.3 | 37.1 | 26.5 | 33.8 | 32.8 | 40.6 | 30.0 | 37.5 |
| 3*50 | 4.5 | 2.9 | 4.5 | 2.9 | 34.1 | 42.9 | 30.9 | 39.2 | 36.7 | 45.5 | 33.5 | 42.0 |
| 3*70 | 4.8 | 3.1 | 4.8 | 3.1 | 38.4 | 48.3 | 35.1 | 44.0 | 41.0 | 50.9 | 37.7 | 47.2 |
| 3*95 | 5.3 | 3.4 | 5.3 | 3.4 | 43.3 | 54.0 | 39.6 | 49.7 | 45.9 | 56.6 | 42.2 | 52.5 |
| 3*120 | 5.6 | 3.6 | 5.6 | 3.6 | 47.4 | 60.0 | 43.4 | 55.5 | 50.0 | 62.6 | 46.0 | 58.3 |
| 3*150 | 6.0 | 3.8 | 6.0 | 3.8 | 52.0 | 66.0 | 47.6 | 61.1 | 54.6 | 68.6 | 50.2 | 63.9 |
| 3*185 | 6.4 | 4.0 | 6.4 | 4.0 | 57.0 | 72.0 | 52.2 | 66.7 | 58.7 | 73.7 | 53.9 | 68.8 |
| 3*240 | 7.1 | 4.5 | 7.1 | 4.5 | 65.0 | 82.0 | 59.8 | 76.2 | 66.7 | 83.7 | 54.6 | 78.2 |
| 3*300 | 7.7 | 4.8 | - | - | 72.0 | 90.0 | 66.3 | 83.6 | - | - | - | - |
| 3*4+1*2.5 | 2.0 | 1.3 | - | - | 14.0 | 17.9 | 12.7 | 16.3 | - | - | - | - |
| 3*6+1*4 | 2.3 | 1.5 | - | - | 15.7 | 20.0 | 14.1 | 18.1 | - | - | - | - |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3*10+1*10 | 3.4 | 2.2 | - | - | 20.9 | 26.5 | 18.5 | 23.8 | - | - | - | - |
| 3*16+1*10 | 3.6 | 2.4 | - | - | 23.5 | 29.6 | 21.1 | 26.8 | - | - | - | - |
| 3*25+1*16 | 4.0 | 2.6 | - | - | 27.9 | 35.6 | 25.1 | 32.4 | - | - | - | - |
| 3*35+1*16 | 4.3 | 2.8 | - | - | 31.0 | 40.1 | 28.1 | 36.6 | - | - | - | - |
| 3*50+1*25 | 4.8 | 3.1 | - | - | 35.7 | 46.0 | 32.4 | 42.1 | - | - | - | - |
| 3*70+1*35 | 5.0 | 3.2 | - | - | 40.7 | 52.0 | 37.1 | 47.9 | - | - | - | - |
| 3*95+1*50 | 5.5 | 3.5 | - | - | 46.4 | 59.0 | 42.4 | 54.5 | - | - | - | - |
| 3*120+1*70 | 5.8 | 3.7 | - | - | 50.0 | 64.0 | 45.9 | 59.3 | - | - | - | - |
| 3*150+1*70 | 6.3 | 4.0 | - | - | 55.0 | 70.0 | 50.5 | 64.9 | - | - | - | - |
| 3*185+1*95 | 6.8 | 4.3 | - | - | 60.0 | 76.0 | 55.0 | 70.5 | - | - | - | - |
| 4*1 | 1.5 | 1.0 | - | - | 9.2 | 11.9 | 8.2 | 10.7 | - | - | - | - |
| 4*1.5 | 1.7 | 1.1 | - | - | 10.2 | 13.1 | 9.0 | 11.6 | - | - | - | - |
| 4*2.5 | 1.9 | 1.2 | - | - | 12.1 | 15.5 | 10.7 | 13.8 | - | - | - | - |
| 4*4 | 2.0 | 1.3 | - | - | 14.0 | 17.9 | 12.7 | 16.2 | - | - | - | - |
| 4*6 | 2.3 | 1.5 | - | - | 15.7 | 20.0 | 14.2 | 18.1 | - | - | - | - |
| 4*10 | 3.4 | 2.2 | - | - | 20.9 | 26.5 | 18.6 | 23.6 | - | - | - | - |
| 4*16 | 3.6 | 2.4 | - | - | 23.8 | 30.1 | 21.3 | 27.0 | - | - | - | - |
| 4*25 | 4.1 | 2.7 | - | - | 28.9 | 36.6 | 26.1 | 33.2 | - | - | - | - |
| 4*35 | 4.4 | 2.8 | - | - | 32.5 | 41.1 | 29.3 | 37.2 | - | - | - | - |
| 4*50 | 4.8 | 3.1 | - | - | 37.7 | 47.5 | 34.4 | 43.5 | - | - | - | - |
| 4*70 | 5.2 | 3.3 | - | - | 42.7 | 54.0 | 39.0 | 49.5 | - | - | - | - |
| 4*95 | 5.9 | 3.7 | - | - | 48.4 | 61.0 | 44.0 | 55.9 | - | - | - | - |
| 4*120 | 6.0 | 3.8 | - | - | 53.0 | 66.0 | 48.6 | 60.9 | - | - | - | - |
| 4*120 | 6.5 | 4.1 | - | - | 58.0 | 73.0 | 53.2 | 67.5 | - | - | - | - |
| 4*185 | 7.0 | 4.4 | - | - | 64.0 | 80.0 | 58.8 | 74.3 | - | - | - | - |
| 4*240 | 7.7 | 4.8 | - | - | 72.0 | 91.0 | 66.3 | 84.7 | - | - | - | - |
| 4*300 | 8.4 | 5.2 | - | - | 80.0 | 101.0 | 73.6 | 94.0 | - | - | - | - |
| 5*1.0 | 1.6 | 1.0 | - | - | 10.2 | 13.1 | 9.0 | 11.7 | - | - | - | - |
| 5*1.5 | 1.8 | 1.1 | - | - | 11.2 | 14.4 | 9.8 | 12.8 | - | - | - | - |
| 5*2.5 | 2.0 | 1.3 | - | - | 13.3 | 17.0 | 11.9 | 15.5 | - | - | - | - |
| 5*4 | 2.2 | 1.4 | - | - | 15.6 | 19.9 | 14.1 | 18.2 | - | - | - | - |

**(续)** **Sequel**

| 芯数及导体标称截面积 mm² Core number & Nominal cross section area | 护套厚度标称值 mm Nominal thickness of sheath | | | | 平均外径 mm Average Outer diameter | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 450/750V、0.6/1kV | | 1.8/3kV | | 450/750V、0.6/1kV | | | | 1.8/3kV | | | |
| | SE4、SH、TPV、G | TPU | SE4、SH、TPV、G | TPU | SE4、SH、TPV、G护套 SE4、SH、TPV、G sheath | | TPU护套 TPU Sheath | | SE4、TPV、SH、G护套 SE4、TPV、SH、Gsheath | | TPU护套 TPU sheath | |
| | | | | | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limit | 下限 Lower limit | 上限 Upper limitt |
| 5*6 | 2.5 | 1.6 | - | - | 17.5 | 22.2 | 15.7 | 20.2 | - | - | - | - |
| 5*10 | 3.6 | 2.3 | - | - | 22.9 | 29.1 | 20.4 | 26.0 | - | - | - | - |
| 5*16 | 3.9 | 2.5 | - | - | 26.4 | 33.3 | 23.7 | 30.2 | - | - | - | - |
| 5*25 | 4.4 | 2.8 | - | - | 32.0 | 40.4 | 28.8 | 36.8 | - | - | - | - |
| 6*1.5 | 2.5 | 1.6 | - | - | 13.4 | 17.2 | 11.6 | 15.4 | - | - | - | - |
| 12*1.5 | 2.9 | 1.9 | - | - | 17.6 | 22.4 | 15.6 | 20.4 | - | - | - | - |
| 18*1.5 | 3.2 | 2.1 | - | - | 20.7 | 26.3 | 18.5 | 24.1 | - | - | - | - |
| 24*1.5 | 3.5 | 2.3 | - | - | 24.3 | 30.7 | 21.9 | 28.3 | - | - | - | - |
| 36*1.5 | 3.8 | 2.5 | - | - | 27.8 | 35.2 | 25.2 | 32.6 | - | - | - | - |
| 6*2.5 | 2.7 | 1.8 | - | - | 15.7 | 20.0 | 13.9 | 18.2 | - | - | - | - |
| 12*2.5 | 3.1 | 2.1 | - | - | 20.6 | 26.2 | 18.6 | 24.2 | - | - | - | - |
| 18*2.5 | 3.5 | 2.3 | - | - | 24.4 | 30.9 | 22.0 | 28.5 | - | - | - | - |
| 24*2.5 | 3.9 | 2.6 | - | - | 28.8 | 36.4 | 26.2 | 33.8 | - | - | - | - |
| 36*2.5 | 4.3 | 2.9 | - | - | 33.2 | 41.8 | 30.4 | 39.0 | - | - | - | - |
| 6*4 | 2.9 | 1.9 | - | - | 18.2 | 23.2 | 16.2 | 21.2 | - | - | - | - |
| 12*4 | 3.5 | 2.3 | - | - | 24.4 | 30.9 | 22.0 | 28.5 | - | - | - | - |
| 18*4 | 3.9 | 2.5 | - | - | 28.8 | 36.4 | 26.0 | 33.6 | - | - | - | - |

注：

1）5芯以上电缆优选芯数：6、12、18、24和36；

2）5芯以上非优选芯数电缆的护套厚度的标称值（Tg）根据GB/T12706-1附录A的假定直径法使用下列公式计算得出：SE4、TPV、SH、G 护套：Tg=0.11D+1.5（mm）TPU护套：Tg=0.07D+1.0（mm）

式中D为成缆缆芯的假定直径。

10mm²及以下截面的5芯以上多芯电缆的护套厚度的标称值也可以由上面公式计算得出

Note:

1) Preferred core number of over 5 cores cable: 6, 12, 18, 24, 36

2) According to appendix A of GB/T12706-1, please follow below format with assumed diameter to calculate sheath nominal thickness value (Tg) of non-recommend over 5 core cable.SE4、TPV、SH、G sheath: Tg=0.11D+1.5（mm）

TPU Sheath: Tg=0.07D+1.0（mm）

D is assumed outer diameter of core

Nominal sheath thickness of 10mm2 and below cable with more than 5 cores can be calculated by above format.

# AF-200、AF-260氟塑料安装电线

## AF-200 & AF-260 Fluoroplastics Installation Wire

本产品适用于耐低温导线、耐高温加热导线及阻燃耐老化导线也可用于空调机、微波炉、电子消毒柜、电子热水瓶、电暖器、电烤箱、 电炒锅、灯具灯饰等内部布线。

It is used as low temperature resistant wire, high temperature resistant heating wire or flame retardant and aging resistant wire. It is used as inner wiring in air conditioner, microwave stove, electronic sterilizer, electric water heater, electrical heating machine, electronic oven, electrical frying pan and lightings etc.

### 一、生产执行标准

参照GJB773B-2015标准。

### Executive standard

GJB773B-2015 standard.

### 二、使用特性

1、电线导体最高工作温度为200℃和260℃，最低环境温度为-60℃；

2、额定电压：300V/500V。

### Operational performance

1.Max working temperature of wire conductor is 200℃& 260℃.Min. environment temperature is -60℃.
2.Rated voltage: 300/500V.

### 三、技术特性

1、电线具有优良的耐腐蚀性能，几乎不溶于任何有机溶剂，可抗油、强酸、强碱、强氧化剂；

2、具有优良的电绝缘性能，耐高电压、高频损耗小，不吸湿，绝缘电阻大；

3、具有优良的不燃、耐老化性能，氧指数≥70，使用寿命长；

4、也可向用户提供屏蔽型安装线。

### Technical Performance

1.It has good feature of corrosion resistant, and it is almost Insoluble in any organic solvent. It is resistant to grease, strong acid and strong alkali.
2.It has good electric insulation character, and is resistant to high voltage, with small H.F. loss, without absorbing moisture, and with high insulation resistance.
3.It has good performance of resisting fire and aging, oxygen index≥70, with long lifetime.
4.We also produce shielding installation wire according to the requirement of customer.

### 四、主要技术参数

### Main Technical Parameter

| 标称截面<br>mm²<br>Nominal cross section area | 电线最大外径<br>mm<br>Max. O.D of cable | 载流量<br>A<br>Current-loading capacity | 20℃导体最大电阻<br>Ω/km<br>Max. resistance of conductor at 20℃ |
|---|---|---|---|
| 0.3 | 1.55 | 2.5 | 71.2 |
| 0.5 | 1.65 | 6 | 40.1 |
| 0.75 | 1.86 | 10 | 22.2 |
| 1.0 | 2.10 | 14 | 20.0 |
| 1.5 | 2.52 | 22 | 13.7 |
| 2.0 | 2.75 | 26 | 8.86 |
| 2.5 | 2.92 | 30 | 8.21 |
| 3.5 | 3.58 | 37 | 6.10 |
| 4.0 | 3.76 | 40 | 5.09 |
| 5.5 | 4.05 | 50 | 4.50 |
| 6.0 | 4.58 | 55 | 3.39 |
| 8.0 | 5.15 | 65 | 2.35 |
| 10.0 | 5.58 | 75 | 1.95 |
| 16.0 | 5.86 | 82 | 1.21 |

### 五、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

1.Delivery length of cable depends on both agree-ments.
2.The measurement error of lenth is no more than ±0.5%.

# 180℃电机绕组引接软电缆

## 180℃ Soft Cable for Motor Winding Connection

本产品适用于连续运行导体温度为180℃的电机绕组作引接线用。

It is used as connection cable of motor with continual working temperature of 180℃.

### 一、生产执行标准

JB/T 6213.4-2006。

### Executive standard

JB/T 6213.4-2006.

### 二、使用特性

1、连续运行导体最高温度为180℃；

2、电缆（电线）的额定电压为：

500V、1000V、3000V、6000V、10000V；

3、敷设时的允许弯曲半径应不小于电缆（电线）外径的4倍。

### Operational performance

1.Max. temperature of conductor for continual working is180℃.
2.Rated voltage of cable/wire is 500V,1000V,3000V,6000V,10000V.
3.Bending radius for installation is no less than 4 times that of cable outer diameter.

### 三、型号名称

### Type and Description

| 型号 Type | 名 称 Description |
|---|---|
| JG | 铜芯硅橡胶绝缘电机绕组引接电缆（电线）<br>Motor winding connection cable(wire) with cu core, silica rubber insulation |

### 四、规格

### Specication

| 型号 Type | 额定电压 V Rated voltage | 芯数 Core No. | 标称截面 mm² Nominal cross section area |
|---|---|---|---|
| JG | 500 | 1 | 0.75~10 |
| JG | 1000 | 1 | 0.75~240 |
| JG | 3000 | 1 | 25~240 |
| JG | 6000 | 1 | 16~240 |
| JG | 10000 | 1 | 25~240 |

### 五、参考外径

### Cable outer diameter for reference

| 标称截面 mm² Nominal cross section area | 平均外径上限 mm Max.Average O.D | |
|---|---|---|
| | 500V | 1000V |
| 0.75 | 3.5 | 4.7 |
| 1.0 | 3.7 | 4.9 |
| 1.5 | 4.0 | 5.2 |
| 2.5 | 4.6 | 5.6 |
| 4 | 5.4 | 6.3 |
| 6 | 6.5 | 7.5 |
| 10 | 7.9 | 8.5 |

| 标称截面 mm² Nominal cross section area | 平均外径上限 mm Max.Average O.D |
|---|---|
| | 1000V |
| 16 | 9.6 |
| 25 | 11.4 |
| 35 | 12.8 |
| 50 | 14.8 |
| 70 | 17.2 |
| 95 | 19.7 |
| 120 | 21.9 |
| 150 | 24.1 |
| 185 | 26.3 |
| 240 | 28.3 |

| 标称截面 mm² Nominal cross section area | 平均外径上限 mm Max.Average O.D | | |
|---|---|---|---|
| | 3000V | 6000V | 10000V |
| 2.5 | 8.5 | / | / |
| 4 | 9.1 | / | / |
| 6 | 10.3 | / | / |
| 10 | 11.3 | / | / |
| 16 | 12.4 | 17.2 | / |
| 25 | 13.8 | 18.6 | 24.1 |
| 35 | 15.2 | 20.0 | 25.5 |
| 50 | 17.1 | 22.1 | 27.3 |
| 70 | 19.2 | 24.2 | 29.4 |
| 90 | 22.0 | 26.3 | 31.5 |
| 120 | 23.5 | 27.8 | 33.3 |
| 150 | 25.5 | 29.8 | 35.3 |
| 185 | 27.5 | 32.1 | 37.3 |
| 240 | 30.6 | 35.1 | 40.3 |

## 六、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

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.

# 电缆分配系统用物理发泡聚乙烯绝缘同轴电缆

## Coaxial Cable with Physically Foamed PE Insulation for Cable Distribution System

本产品适用于1GHZ以下闭路电视系统、共用天线电视系统作分支线和用户线以及其它电子装置。电缆分配系统用物理发泡聚乙烯绝缘同轴电缆比实芯聚乙烯、化学发泡聚乙烯和纵孔聚乙烯绝缘电视电缆具有更优良的高频性能，它有衰减低、一致性好、不易受潮等突出优点，为此在国际、国内市场已获得广泛使用。

This product is used as a branch line and a user line. It is suitable for closed-circuit television system, common antenna TV system, and other electronic devices. (under 1GHZ) Coaxial cable with physically foamed PE insulation for cable distribution system has good features of high frequency performance, low attenuation, good consistency and humidity resistance etc compared with TV cable with solid core PE, chemically foamed PE and cell PE insulation. Now, it is widely used in domestic and international market.

## 一、生产执行标准

SJ/T11138-97。

## Executive standard

SJ/T11138-97.

## 二、使用特性

环境条件：-25℃~+70℃（PVC护套）；
-40℃~+70℃（PE护套）；
相对湿度：当温度为40±2℃，为90%~95%。

## Operational performance

Environment temperature:
-25℃~+70℃（PVC sheath）
-40℃~+70℃（PE sheath）
Relative humidity is 90%~95% under the temperature of 40±2℃.

## 三、型号名称

## Type and Description

| 型号 Type | 名称 Name |
|---|---|
| SYWV-75-5<br>SYWV-75-7<br>SYWV-75-9 | 电缆分配系统用物理发泡聚乙烯绝缘聚氯乙烯护套同轴电缆<br>Coaxial cable with physically foamed PE insulation, PVC sheath for cable distribution system |
| SYWY-75-7<br>SYWY-75-9 | 电缆分配系统用物理发泡聚乙烯绝缘聚乙烯护套同轴电缆<br>Coaxial cable with physically foamed PE insulation and PE sheath for cable distribution system |

## 四、电缆的结构尺寸

## Structure Dimension of Cable

| 型号<br>Type | 内导体 mm<br>Inner conductor | 绝缘外径 mm<br>Insulation OD | 外导体 mm<br>Outer conductor | 护套 mm<br>Sheath | 单位重量 kg/km<br>Unit weight |
|---|---|---|---|---|---|
| SYWV-75-5 | 1.0±0.02 | 4.8±0.2 | ≤5.8 | ≤7.5 | 46 |
| SYWV-75-7<br>SYWY-75-7 | 1.66±0.02 | 7.25±0.25 | ≤8.3 | ≤10.6 | 85 (PVC)<br>75 (PE) |
| SYWV-75-9<br>SYWY-75-9 | 2.15±0.03 | 9.00±0.25 | ≤10.3 | ≤12.6 | 120 (PVC)<br>110 (PE) |

备注：
1、内导体为单根圆铜线或铜包铝线；
2、绝缘为物理发泡聚乙烯；
3、外导体为铝塑复合膜和镀锡圆铜线（或铝合金线）编织双层屏蔽形式；
4、护套为聚氯乙烯或聚乙烯。

Note:
1.Inner conductor consists of single round copper wire OR copper-clad aluminum wire
2.Insulation material is physically foamed PE.
3.Outer conductor consists of aluminum-plastic compound file and tinned round copper wire(aluminum-alloy wire) braid dual shielding.
4.Sheath material is PVC or PE.

## 五、电气性能 Electric Performance

| 试验项目 Teating item | 试验条件 Teat condition | 单位 Unit | 技术要求 Technical requirements | | |
|---|---|---|---|---|---|
| | | | SYWV-75-5 | SYWV-75-7<br>SYWY-75-7 | SYWV-75-9<br>SYWY-75-9 |
| 绝缘电阻<br>Insulated resistance | 500V DC(20℃) | MΩ.km | ≥5000 | ≥5000 | ≥5000 |
| 护套介电强度<br>Sheath dielectric strength<br>浸水试验<br>Immersion test in water<br>火花试验<br>Spark test | 40Hz~60Hz | KV | 2.0<br>3.0 | 3.0<br>5.0 | 5.0<br>8.0 |
| 特性阻抗<br>Characteristic impedance | 200MHz | Ω | 72.0~78.0 | 72.5~77.5 | 72.5~77.5 |
| 衰减常数 20℃<br>Attenuation coefficient | 50MHz<br>200MHz<br>550MHz<br>800MHz | dB/100m | ≤4.8<br>≤9.7<br>≤16.8<br>≤20.3 | ≤3.2<br>≤6.4<br>≤10.7<br>≤13.3 | ≤2.4<br>≤5.0<br>≤8.5<br>≤10.4 |
| 回波损耗<br>Return-loss | VHF<br>UHF | dB<br>dB | ≤20.0<br>≤18.0 | ≤20.0<br>≤18.0 | ≤20.0<br>≤18.0 |
| 屏蔽衰减<br>Shielding attenuation | 50MHz<br>200MHz<br>800MHz | dB<br>dB<br>dB | 60<br>70<br>70 | 60<br>70<br>70 | 60<br>70<br>70 |

# 实芯聚乙烯绝缘柔软射频电缆

## Solid-polyethene insulated flexible radio-frequency cables

适用于无线电通讯广播设备和有关无线电电子设备中传输射频信号。

It is used to transmit radio frequency signal for radio communication broadcasting equipments and concerned electric devices.

## 一、生产执行标准

GB/T14864-2013。

## Executive standard

GB/T14864-2013.

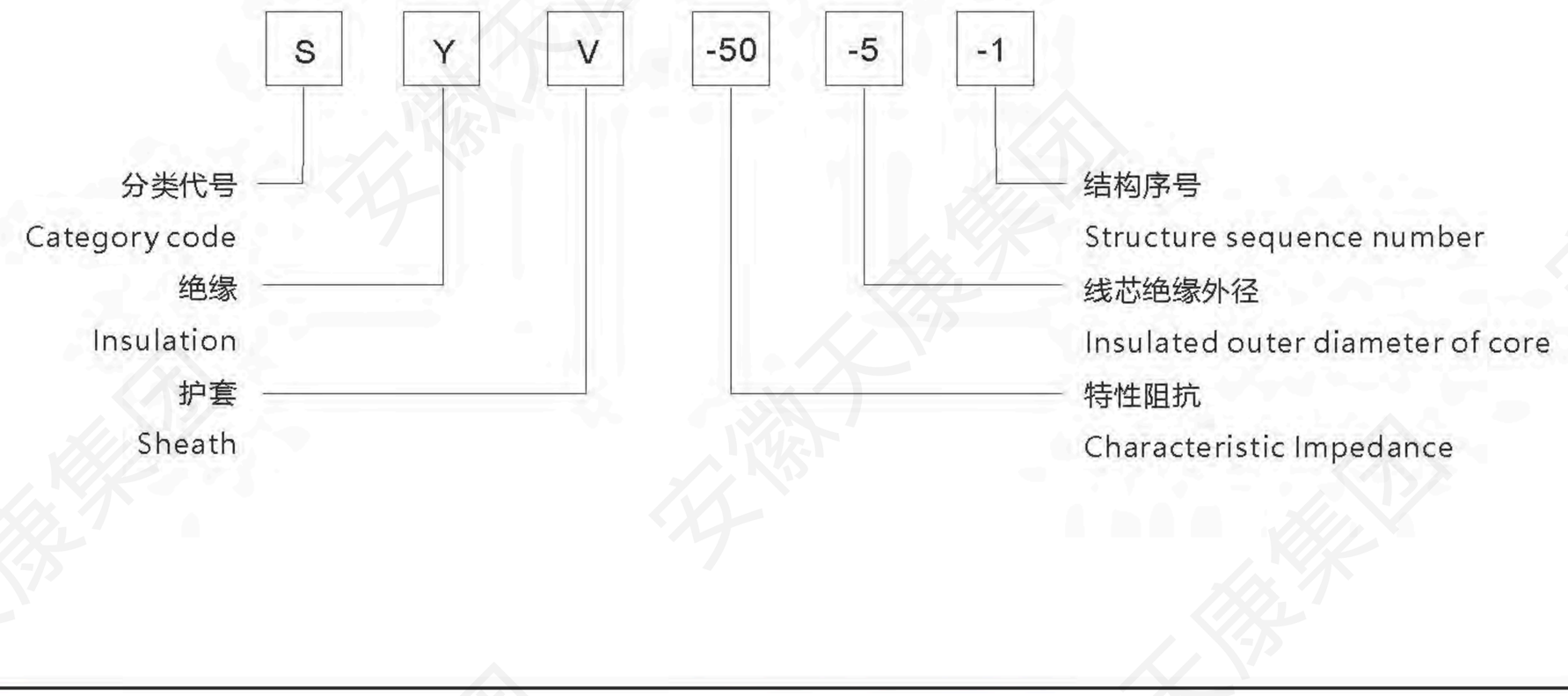
## 二、型号编制及字母代号含义

## Type Compiling and Code Meaning

| | |
|---|---|
| 射频同轴电缆 | S |
| 铜导体 | T（可省略） |
| 聚乙烯绝缘 | Y |
| 聚氯乙烯护套 | V |
| 低烟无卤阻燃聚烯烃 | YZ |

| | |
|---|---|
| RF coaxial cable | S |
| Copper conductor | T（omitted） |
| PE insulation | Y |
| PVC sheath | V |
| Low smoke halogen-free flame retardant polyolefin | YZ |

**型号组成表示方法 Item no-forming method**




## 三、使用条件

使用温度：

PVC低烟无卤阻燃聚烯烃护套电缆：-15℃~70℃；

PE护套电缆：-40℃~80℃。

安装敷设温度不低于-15℃。

允许最小弯曲半径：室内使用时不少于5倍电缆外径，室外使用不小于10倍电缆外径。

## Executive standard

Working temperature:

PVC(LSZH flame retardant PO)sheath cable:-15 to 70℃.

PE sheath cable:-40 to 80℃.

Installation temperature is no lower than -15℃.

Min.bending radius: It will be no less than 5 times that of cable outer diameter for indoor usage and no less than 10 times for outdoor usage.

## 四、型号名称

## Type and Description

| 型号 Type | 名称 Description |
|---|---|
| SYV | 实芯聚乙烯绝缘柔软射频电缆<br>Solid-polyethene insulated flexible radio-frequency cables |

## 五、结构尺寸 Specication and Size

| 型号规格 Type | 内导体 mm Inner conductor | 绝缘外径 mm Insulated outer diameter | 外导体直径 mm Diameter of outer conductor | | | 护套外径 mm Sheath OD | 绝缘电阻 MΩ.km Insulation resistance | 200MHz下衰减dB/m Attenuation under 200MHz |
|---|---|---|---|---|---|---|---|---|
| | 根数/直径* No./diameter* | | 内层 Inner layer | 外层 Outer layer | 单线直径 Diameter of single wire | | | |
| SYV-50-2-1<br>SYY-50-2-1<br>SYYZ-50-2-1 | 7/0.16 | 1.50±0.10 | 软铜线 Soft copper wire | / | 0.10±0.01 | 2.8±0.2 | ≥5000 | ≤0.450 |
| SYV-50-2-41<br>SYY-50-2-41<br>SYYZ-50-2-41 | 1/0.68 | 2.20±0.10 | | / | 0.14±0.01 | 4.0±0.2 | | ≤0.310 |
| SYV-50-3-1<br>SYY-50-3-1<br>SYYZ-50-3-1 | 7/0.32 | 2.95±0.13 | | / | 0.14±0.01 | 5.0±0.2 | | ≤0.240 |
| SYV-50-3-4<br>SYY-50-3-4<br>SYYZ-50-3-4 | 1/0.90 | 2.95±0.13 | | / | 0.14±0.01 | 5.0±0.2 | | ≤0.220 |
| SYV-50-3-41<br>SYY-50-3-41<br>SYYZ-50-3-41 | 1/0.90 | 2.95±0.13 | | 软铜线 Soft copper wire | 0.14±0.01 | 5.8±0.2 | | ≤0.220 |
| SYV-50-3-42<br>SYY-50-3-42<br>SYYZ-50-3-42 | 19/0.18 | 2.95±0.10 | 镀锡铜线 Tinned copper wire | / | 0.12±0. 01 | 4.95±0.1 | | ≤0.558 |
| SYV-50-5-1<br>SYY-50-5-1<br>SYYZ-50-5-1 | 1/1.40 | 4.8±0.20 | 软铜线 Soft copper wire | / | 0.14±0. 01 | 7.2±0.3 | | ≤0.150 |
| SYV-50-5-41<br>SYY-50-5-41<br>SYYZ-50-5-41 | 1/1.40 | 4.8±0.20 | | 软铜线 Soft copper wire | 0.14±0. 01 | 7.9±0.3 | | ≤0.150 |
| SYV-50-5-42<br>SYY-50-5-42<br>SYYZ-50-5-42 | 1/1.37 | 4.6±0.20 | | / | 0.14±0. 01 | 7.0±0.3 | | ≤0.150 |
| SYV-50-5-43<br>SYY-50-5-43<br>SYYZ-50-5-43 | 1/1.37 | 4.6±0.20 | | 软铜线 Soft copper wire | 0.14±0.01 | 7.8±0.3 | | ≤0.150 |
| SYV-50-7-2<br>SYY-50-7-2<br>SYYZ-50-7-2 | 7/0.75 | 7.25±0.25 | | / | 0.19±0.01 | 10.3±0.3 | | ≤0.110 |
| SYV-50-7-6<br>SYY-50-7-6<br>SYYZ-50-7-6 | 7/0.75 | 7.25±0.15 | 镀银铜线 Silver-plated copper wire | 软铜线 Soft copper wire | 0.17±0.01 | 11.0±0.3 | | ≤0.620 |
| SYV-50-7-41<br>SYY-50-7-41<br>SYYZ-50-7-41 | 7/0.75 | 7.25±0.25 | 软铜线 Soft copper wire | 软铜线 Soft copper wire | 0.17±0.01 | 11.0±0.3 | | ≤0.110 |
| SYV-50-9-41<br>SYY-50-9-41<br>SYYZ-50-9-41 | 7/0.95 | 9.0±0.30 | | / | 0.19±0.01 | 12.2±0.4 | | ≤0.450 |

注：SYV-50- 的特性阻抗为50±2.5Ω，电容不大于115pF/m.。

Note: characteristic impedance of SYV-50- is 50±2.5Ω. Capacitance is no more than 115pF/m

| 型号规格 Type | 内导体 mm Inner conductor | 绝缘外径 mm Insulated outer diameter | 外导体直径 mm Diameter of outer conductor | | | 护套外径 mm Sheath OD | 绝缘电阻 MΩ.km Insulation resistance | 200MHz下衰减dB/m Attenuation under 200MHz |
|---|---|---|---|---|---|---|---|---|
| | 根数/直径* No./diameter* | | 内层 Inner layer | 外层 Outer layer | 单线直径 Diameter of single wire | | | |
| SYV-75-3-41<br>SYY-75-3-41<br>SYYZ-75-3-41 | 7/0.17 | 3.00±0.13 | 软铜线 Soft copper wire | / | 0.10±0.01 | 5.0±0.25 | ≥5000 | 0.280 |
| SYV-75-3-42<br>SYY-75-3-42<br>SYYZ-75-3-42 | 1/0.50 | 3.10±0.15 | | / | 0.14±0.01 | 5.4±0.2 | | 0.048 |
| SYV-75-4-1<br>SYY-75-4-1<br>SYYZ-75-4-1 | 7/0.21 | 3.70±0.13 | | / | 0.14±0.01 | 6.0±0.2 | | 0.220 |
| SYV-75-4-2<br>SYY-75-4-2<br>SYYZ-75-4-2 | 7/0.21 | 3.70±0.10 | | 软铜线 Soft copper wire | 0.14±0.01 | 6.7±0.2 | | 0.950 |
| SYV-75-4-4<br>SYY-75-4-4<br>SYYZ-75-4-4 | 1/0.59 | 3.70±0.13 | | / | 0.14±0.01 | 6.0±0.2 | | 0.190 |
| SYV-75-5-41<br>SYY-75-5-41<br>SYYZ-75-5-41 | 1/0.75 | 4.80±0.20 | | / | 0.14±0. 01 | 7.2±0.3 | | 0.150 |
| SYV-75-5-42<br>SYY-75-5-42<br>SYYZ-75-5-42 | 1/0.75 | 4.8±0.20 | | 软铜线 Soft copper wire | 0.14±0. 01 | 7.9±0.3 | | 0.150 |
| SYV-75-5-43<br>SYY-75-5-43<br>SYYZ-75-5-43 | 1/0.72 | 4.60±0.20 | | / | 0.15±0. 01 | 7.1±0.3 | | 0.190 |
| SYV-75-5-44<br>SYY-75-5-44<br>SYYZ-75-5-44 | 7/0.26 | 4.6±0.20 | | / | 0.15±0. 01 | 7.1±0.3 | | 0.211 |
| SYV-75-7-2<br>SYV-75-7-2<br>SYYZ-75-7-2 | 7/0.40 | 7.25±0.25 | | / | 0.19±0. 01 | 10.3±0.3 | | 0.120 |
| SYV-75-7-8<br>SYV-75-7-8<br>SYYZ-75-7-8 | 1/1.15 | 7.25±0.25 | | / | 0.19±0.01 | 10.3±0.3 | | 0.100 |
| SYV-75-7-41<br>SYV-75-7-41<br>SYYZ-75-7-41 | 7/0.40 | 7.25±0.25 | | 软铜线 Soft copper wire | 0.17±0.01 | 11.0±0.3 | | 0.120 |
| SYV-75-9-41<br>SYY-75-9-41<br>SYYZ-75-9-41 | 1/1.37 | 9.0±0.30 | | / | 0.19±0. 01 | 12.2±0.4 | | 0.088 |

注：SYV-75- 的特性阻抗为75±3Ω, 电容不大于76pF/m。
*表示单线直径为近似值。
**表示频率为3000 MHz下的衰减值。

Note: Characteristic impedance of SYV-75- is 75±3Ω. Capacitance is no more than 76pF/m.
* :approximate value of diameter of single wire
**:attenuation value under 3000 MHz

## 六、交货要求

1、允许成圈长度为100米交货，成盘长度应不小于100米，长度误差为±0.5%;

2、根据双方协议允许任何长度交货。

## Delivery Requirement

1.Cable length in coil is 100 meters. Cable length on drum is no less than 100 meters with length error of ±0.5%.

2.Allow any length of delivery according to the agreement between the two parties.

# 现场总线电缆

## Fieldbus Cable

本产品用于31.25kHz，特性阻抗为100Ω自动化控制系统的信号传输、监控回路、智能测理与控制设备以及自动化显示系统之间的数字化、双向、多点的通信链路场合。用以构建一种开放分散的数字化现场总线通信系统。适用于室内外潮湿或干燥环境中安装在电缆桥架（托架），隧道内使用。

The cable is used for 31.25kHz, characteristic impedance of 100Ω automation control system signal transmission, monitoring loop, intelligent measurement and control equipment ,and automation display system between the digital, bidirectional, multi-point communication link. It is used to construct an open and decentralized digital fieldbus communication system.Suitable for indoor and outdoor wet or dry environment installed in cable tray (bracket), tunnel use.

### 一、生产执行标准

IEC 61158-2-2010工业通讯网络.数据总线规范.第2部分：物理层规范和服务定义，T/CES 100-2022《现场总线用聚乙烯绝缘电缆》，T/HGJ 12400-2021《石油化工仪表线缆选型设计标准》。

### Executive standard

IEC 61158-2-2010 Industrial communication networks-Fieldbus specifications-Part 2: Physical layer specification and service definition,T/CES100-2022《Polyethylene insulated cable for field bus》,T/HGJ12400-2021《Design specification for the FOUNDATION fieldbus control system in petrochemical industry》.

### 二、使用特点

1、额定电压：300/500V。

2、电缆长期允许工作温度：70℃。

3、电缆长期允许弯曲半径：

金属带屏蔽或金属丝铠装电缆弯曲半径应不大于电缆外径的12倍；

金属丝编织电缆，弯曲半径应不大于电缆外径的8倍。

4、安装时最低敷设温度：不低于0℃。

### Operational performance

1.Rated Voltage:300/500V.

2.Long-term allowable working temperature by cable is 70℃

3.Long-term allowable bending Radium of cable

The bending radius of metal-tape shielded cable or metal-wire armored cable shall be no more than 12 times the outer diameter of the cable.

The bending radius of metal-wire shielded cable shall be no more than 8 times the outer diameter of the cable.

4.The Min. Laying temperature:no less than 0℃.

### 三、产品性能

1、FF基金会现场总线具有优良的性能，较高可靠性和控制功能的诊断功能，管理功能，特别适用于工业过程监控设备互联。

2、传输距离。IEC61158-2将总线使用的31.25kHz电压模式总线电缆分为A、B、C、D四种类型，并给出每种类型电缆的最大允许布线长度。

A型：全屏蔽单对对绞电缆，最大布线长度为1900m。

B型：全屏蔽多对对绞电缆，最大布线长度为1200m。

C型：非全屏蔽单对或多对对绞电缆，最大布线长度为400m。

D型：全屏蔽非对绞电缆，最大布线长度为200米。

### Product performance

1.Foundation Fieldbus Cable has excellent performance, high reliability and control function of diagnostic function, management function, especially suitable for industrial process monitoring equipment interconnection.

2.Transmission distance。IEC61158-2 divides the 31.25kHz voltage mode fieldbus cable into four types: A, B, C and D, and gives the maximum allowable wiring length of each type of cable.

Type A: Overall shielded single-pair cable with a maximum cable length of 1900 m.

Type B: Overall shielded multi-pairs cable with a maximum cable length of 1200 m.

Type C:Unshielded single-pair or multi-pair cable with a maximum cable length of 400 m.

Type D:Overall shielded cable with a maximum cable length of 200 m.

### 四、主要技术参数

以18AWG为例：

1、20℃导体电阻：标称截面积为0.8mm²成品电缆在20℃时电阻最大值应不大于24.0Ω/km。

2、屏蔽标称阻抗：单对：9Ω/km，多对：18Ω/km。

3、工作电容（1kHz）：

芯-芯≤60pF/m，芯-屏≤115pF/m。

4、对地电容不平衡≤2000pF/km。

### Main Technical Parameters

Take 18AWG as an example:

1.DC resistance at 20℃: The maximum resistance of the finished cable with a nominal cross-sectional area of 0.8mm² should not be greater than 24.0Ω/ km at 20℃

2.Nominal impedance of shielding:Single-pair:9Ω/km ;multi-pair:18Ω/km

3.Operating capacitance（1kHz）:

5、单元对屏蔽层的最大电容不平衡最大值（1kHz）：4nF/km。

6、特性阻抗（31.25kHz）:100±20Ω。

7、衰减（39kHz）：≤3.0。

8、传输延迟（7.9kHz~39kHz）≤1.7μs/km。

9、工频电压试验：1kV/1min。

10、传输速率：31.25kbit/s。

11、绝缘电阻：成品电缆在20℃时绝缘电阻应不小于3000MΩ.km。

12、最大电感电阻比（20℃，1kHz）：

0.5~1.0mm²：25μH/Ω，1.5mm²:40μH/Ω。

core-to-core:≤60pF/m ;core-to-shielding:≤115pF/m.

4.Capacitance unbalance to earth:≤2000pF/km.

5.Max.Capacitance unbalance of the unit to the shielding layer（1kHz）：4nF/km.

6.Characteristic impedance（31.25kHz）:100±20Ω.

7.Attenuation（39kHz）:≤3.0.

8.Propagation delay change（7.9kHz~39kHz）:≤1.7μs/km.

9.A.C.Voltage test:1kV/1min.

10.Transmission velocity:31.25kbit/s.

11.Insulation Resistance:The insulation resistance of the finished cable at 20℃ should not be less than 3000MΩ.km

12.Max.inductance resistance ratio（20℃,1kHz）：

0.5~1.0mm²：25μH/Ω; 1.5mm²:40μH/Ω.

## 五、型号说明

1、系列代号

FF-A：基金会现场总线A型。

2、材料特性代号

Y：聚乙烯绝缘或聚烯烃；

FPE：发泡聚乙烯绝缘（皮-泡-皮）。

3、结构特征代号

P：铜丝编织屏蔽；

P1：镀锡铜丝编织屏蔽；

P3：铝塑复合带屏蔽；

P4：铜塑复合带屏蔽；

P5/P3P1：铝箔+（镀锡）铜丝编织屏蔽；

2：钢带铠装；

3：钢丝铠装；

9：钢丝编织铠装；

V：聚氯乙烯外护套；

Y：聚乙烯或聚烯烃外护套；

2：聚氯乙烯外护套；

3：聚乙烯或聚烯烃外护套；

R：软结构。

## Cable description

1.Series Code

FF-A：FOUNDATION Fieldbus Cable Type A

2.Material Code

Y：PE or Polyolefin insulation

FPE：Foamed polyethylene insulation(skin-foam-skin)

3.Structure Code

P：Copper wire braiding shielding

P1：Tinned-Copper wire braiding shielding

P3：Aluminum-plastic composite tape shielding

P4：Copper-plastic composite tape shielding

P5/P3P1：(Aluminium-foil +(Tinned)copper wire braiding shielding)

2：Steel tape armored

3：Steel wire armored

9：Steel wire braided armor

V：PVC outer sheath

Y：PE or Polyolefin outer sheath

2：PVC outer sheath

3：PE or Polyolefin outer sheath

R：Soft structure

## 六、电缆结构图

## Cable Structure



## 七、规格尺寸及技术参数 Dimension and Technical parameters

| 标称截面（$mm^2$）<br>Nominal cross-section area | 导体种类<br>Category of conductor | 20℃最大导体直流电阻<br>(Ω/km)<br>Max. DC resistance of conductor | 电缆参考外径（mm）<br>Approximate diameter | | |
|---|---|---|---|---|---|
| | | | FF-A | FF-A-32 | FF-A-92 |
| 1*2*0.5 | 2类<br>Class 2 | 36.0 | 7.0 | 11.5 | 10.5 |
| 2*2*0.5 | | 36.0 | 11.5 | 16.5 | 14.5 |
| 1*2*0.75 | | 24.5 | 7.5 | 12.0 | 11.0 |
| 2*2*0.75 | | 24.5 | 12.0 | 17.5 | 15.5 |
| 1*2*0.8(18AWG) | | 24.0 | 8.0 | 12.3 | 11.3 |
| 2*2*0.8(18AWG) | | 24.0 | 12.5 | 17.5 | 15.5 |
| 1*2*1.0 | | 18.1 | 8.0 | 12.5 | 11.5 |
| 2*2*1.0 | | 18.1 | 13.0 | 18.0 | 16.0 |
| 1*2*1.5 | | 12.1 | 9.0 | 13.0 | 12.0 |
| 2*2*1.5 | | 12.1 | 14.0 | 19.0 | 17.5 |

注：
1、以2类绞合导体提供电缆参数
2、总线电缆外护套正常为橙色，也可按客户要求。

Note:1.Cable parameters are provided here based on class 2 stranded conductors.
2.The outer sheath of the field bus cable is orange normally, or according to customer requirements.

# RS485通讯电缆

## RS485 Communication Cable

RS485通讯电缆广泛应用于DCS系统同SIS、PLC、CCS、MMS等其他系统之间的Modbus RTU串行通信。

RS485 communication cable is widely used in Modbus RTU serial communication between DCS system and SIS, PLC, CCS, MMS and other systems.

### 一、生产执行标准

IEC 61158-2-2010 工业通讯网络.数据总线规范.第2部分：物理层规范和服务定义。

T/HGJ 12400-2021《石油化工仪表线缆选型设计标准》。

T/CES 100-2022《现场总线用聚乙烯绝缘电缆》。

### Executive standard

IEC 61158-2-2010Industrial communication networks-Fieldbus specifications-Part2:Physical layer specification and service definition.

T/HGJ 12400-2021《Design specification for the foundation fieldbus control system in petrochemical industry》.

T/CES 100-2022《Polyethylene Insulated Cable for field bus》.

### 二、使用特点

1、额定电压：300/500V。

2、电缆长期允许工作温度：70℃。

3、电缆长期允许弯曲半径：

金属带屏蔽或金属丝铠装电缆弯曲半径应不大于电缆外径的12倍；

金属丝编织电缆，弯曲半径应不大于电缆外径的8倍。

4、安装时最低敷设温度：不低于0℃。

### Operational performance

1.Rated Voltage:300/500V.

2.Long-term allowable working temperature by cable is 70℃.

3.Long-term allowable bending Radium of cable.

The bending radius of metal-tape shielded cable or metal-wire armored cable shall be no more than 12 times the outer diameter of the cable.

The bending radius of metal-wire shielded cable shall be no more than 8 times the outer diameter of the cable.

4.The Min. Laying temperature:no less than 0℃.

### 三、产品性能

1、RS485通讯电缆具有优良的性能，可应用于复杂的工业自动化控制网络通讯及楼宇自控网络通讯。

2、传输速率：10Mpbs。

3、在要通信传输距离几十到上千米时，广泛采用RS485串行通讯电缆。

4、RS485通讯电缆采用平衡发送和差分接收，因此具有抑制共模干扰的能力，加上总线收发器具有高灵敏度，能检测低至200mV的电压，故传输信号能在千米以外得到恢复。

5、RS485通讯电缆半用半双工工作方式，任何时候只能有一点处于发送状态，因此，发送电路须由使能信号加以控制。RS485用于多点互联时非常方便，可以省掉许多信号线，应用RS485通讯电缆可以联网构成分布式系统。

### Product performance

1.RS485 communication cable has excellent performance and can be applied to complex industrial automation control network communication and building automation network communication.

2.Transmission velocity:10Mpbs.

3.RS485 serial communication cable is widely used when the communication transmission distance is tens to thousands of meters.

4.RS-485 communication cable adopts balanced transmission and differential reception, so it has the ability to suppress common-mode interference. In addition, the bus transceiver has high sensitivity and can detect the voltage as low as 200mV, so the transmitted signal can be recovered from thousands of meters away.

5.RS485 communication cable works in half-duplex mode, and only one point can be sent at any time. Therefore, the sending circuit must be controlled by the enable signal. RS485 is very convenient for multi-point interconnection, and many signal lines can be omitted. RS485 communication cable can be used for networking to form a distributed system.

### 四、主要技术参数

1、工作电容（1kHz）：

芯-芯≤85pF/m，芯-屏≤115pF/m（0.5~1.0mm²）芯-屏≤125pF/m（1.5mm²）。

2、对地电容不平衡≤500pF/km。

3、单元对屏蔽层的最大电容不平衡最大值（1kHz）：4nF/km。

4、特性阻抗（31.25kHz）：100±20Ω。

### Main Technical Parameters

1.Operating capacitance（1kHz）：

Conductor-to-conductor:≤85pF/m,Conductor-to-shielding:≤115pF/m（0.5~1.0mm²),Conductor-to-shielding:≤125pF/m（1.5mm²).

2.Capacitance unbalance to earth:≤500pF/km.

3.Max.Capacitance unbalance of the unit to the shielding

5、衰减（39kHz）：≤3.0dB/km，（1kHz 22AWG）：≤0.5dB/km，（1kHz 24AWG）:≤0.6dB/km。

6、工频电压试验：1kV/1min。

7、传输速率：10Mbps。

8、绝缘电阻：成品电缆在20℃时绝缘电阻应不小于3000MΩ.km。

9、最大电感电阻比

（20℃，1kHz）：0.5~1.0mm²：25μH/Ω 1.5mm²：40μH/Ω。

10、传输延时差（7.8~39kHz）≤1.7μs/km。

layer（1kHz）：4nF/km.

4.Characteristic impedance（31.25kHz）:100±20Ω.

5.Attenuation （39kHz）：≤3.0dB/km;（1kHz 22AWG）：≤0.5dB/km （1kHz 24AWG）:≤0.6dB/km.

6.A.C.Voltage test:1kV/1min.

7.Transmission velocity:10Mbps.

8.Insulation Resistance:The insulation resistance of the finished cable at 20℃ should not be less than 3000MΩ.km.

9.Max.inductance resistance ratio（20℃,1kHz）:

0.5~1.0mm²:25μH/Ω, 1.5mm²:40μH/Ω.

10.Transmission delay difference（7.8~39kHz）≤1.7μs/km.

## 五、型号说明

1、系列代号

RS485：RS485通讯接口电缆。

2、材料特性代号

Y：聚乙烯或聚烯烃绝缘；

FPE：发泡聚乙烯绝缘（皮-泡-皮）。

3、结构特征代号

P：铜丝编织屏蔽；

P1：镀锡铜丝编织屏蔽；

P3：铝塑复合带屏蔽；

P4：铜塑复合带屏蔽；

P5/P3P1：铝箔+（镀锡）铜丝编织屏蔽；

2：钢带铠装；

3：钢丝铠装；

9：钢丝编织铠装；

V：聚氯乙烯外护套；

Y：聚乙烯或聚烯烃外护套；

2：聚氯乙烯外护套；

3：聚乙烯或聚烯烃外护套；

R：软结构。

## Cable description

1.Series Code

RS485:RS485 communication interface cable

2.Material Code

Y: PE or Polyolefin insulation.

FPE: Foamed polyethylene insulation(skin-foam-skin).

3.Structure Code

P:Copper wire braiding shielding

P1:Tinned-Copper wire braiding shielding

P3:Aluminum-plastic composite tape shielding

P4:Copper-plastic composite tape shielding

P5/P3P1: (Aluminium-foil+(Tinned)copper wire braiding shielding)

2:Steel tape armored

3:Steel wire armored

9:Steel wire braided armor

V:PVC outer sheath

Y:PE or Polyolefin outer sheath

2:PVC outer sheath

3:PE or Polyolefin outer sheath

R:Soft structure

## 六、电缆结构图

## Cable Structure



## 七、规格尺寸及技术参数 Dimension and Technical parameters

| 标称截面（$mm^2$）<br>Nominal cross-section area | 导体种类<br>Category of conductor | 20℃最大导体直流电阻<br>（Ω/km）<br>Max. DC resistance of conductor | 电缆参考外径（mm）<br>Approximate diameter | | |
|---|---|---|---|---|---|
| | | | RS485 | RS485-32 | RS485-92 |
| 1*2*0.2（24AWG） | 2类<br>Class 2 | 95.25 | 6.5 | 11.0 | 10.0 |
| 2*2*0.2（24AWG） | | 95.25 | 10.5 | 14.0 | 13.5 |
| 1*2*0.32（22AWG） | | 55.0 | 7.8 | 12.0 | 11.0 |
| 2*2*0.32（22AWG） | | 55.0 | 12.5 | 17.5 | 15.5 |
| 1*2*0.5 | | 36.0 | 7.0 | 11.5 | 10.5 |
| 2*2*0.5 | | 36.0 | 11.5 | 16.5 | 14.5 |
| 1*2*0.75 | | 24.5 | 7.5 | 12.0 | 11.0 |
| 2*2*0.75 | | 24.5 | 12.0 | 17.5 | 15.5 |
| 1*2*0.8(18AWG) | | 24.0 | 8.0 | 12.3 | 11.3 |
| 2*2*0.8(18AWG) | | 24.0 | 12.5 | 17.5 | 15.5 |
| 1*2*1.0 | | 18.1 | 8.0 | 12.5 | 11.5 |
| 2*2*1.0 | | 18.1 | 13.0 | 18.0 | 16.0 |
| 1*2*1.5 | | 12.1 | 9.0 | 13.0 | 12.0 |
| 2*2*1.5 | | 12.1 | 14.0 | 19.0 | 17.5 |

注：
1、以2类绞合导体提供电缆参数；
2、RS485通讯电缆外护套正常为灰色，也可按客户要求。

Note:
1.Cable parameters are provided here based on class2 stranded conductors.
2.The outer sheath of the RS485 Communication Cable is grey normally, or according to customer requirements.

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