



2018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



Anhui Tiangkang (Group) Shares CO.,LTD was founded in 1974, the headquarters is located in the core area of the "Yangtze River Delta" economic circle-Tianchang, after more than 40 years development, the group has gained a lot of honor, such as the top 500 enterprises of Chinese private enterprise manufacturing industry, National high-tech enterprise, State-level contract heavy-Credit Enterprises , Top 100 Enterprises of Chinese Electronic Information, Chinese quality and integrity enterprises, Bank credit AAA Enterprises, Top 100 Enterprises of Chinese electronic components, Top 10 Enterprises of Chinese wire and cable, key enterprises in Anhui Province, and the National May 1 Labor Award. Tiangkang group optical cable production plant area is nearly 200 thousand square meters, has a high crosslinking production line, mineral insulated cable production line, rubber sheathed cable production line, heating cable production line, electron irradiation accelerator production line, power cable production line and special cable production line 200 sets. The products include power cable, control cable, computer cable, new energy electric cable, silicone rubber cable, fluorine plastic cable and the data cable for communication, nuclear power cable, marine cable, locomotive cable, photovoltaic cable, wind power cable, special cable and other products, with good quality and service, are widely used in petroleum, chemical, electric power, transportation, communications, health, new energy vehicles, energy storage and other industries and fields .

As one of the backbone enterprises of the East Anhui economy with the most vitality and contribution, " striving for excellence, create satisfaction" as the goal of group, relying on first-class products, first-class management and first-class service, it not only won extensive praise in the domestic market; in international market, the products are exported to Europe, Africa, Asia and other 46 countries and regions.

Tiangkang group has gradually formed the brand culture and global business layout unique during the development, to create "high-tech, high-quality, international" brand image. Always adhering to the "leap to excellence"spirit ,on the basis of creating a harmonious enterprise, introduce the international advanced framework and model, improve the enterprise's production and management system, the organization of enterprises. On the basis of actively participating in international competition, we constantly grasp the pulse of the market development, seek the economic strategic alliance, and joint development and progress with global partners.

竭诚为客户提供一流的产品和至上的服务

Wholeheartedly Provide Customers With First-class Products and Service

## 控制电缆 Control cable



交联聚乙烯绝缘聚氯乙烯护套控制电缆  
Control Cable with XLPE Insulation and PVC Sheath

聚氯乙烯绝缘及护套控制电缆  
PVC Insulation & Sheath Control Cable

硅橡胶（阻燃）控制电缆  
Silicon Rubber (flame retardant) Control Cable

低烟低卤阻燃控制电缆  
Low Smoke Low Halogen Flame Retardant Control Cable

氟塑料绝缘耐高温控制电缆  
High Temperature Resistant Control Cable with Fluoroplastic Insulation



# 交联聚乙烯绝缘控制电缆

## XLPE Insulation Control cable

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/T9330.3-2008.

### Production standards

GB/T9330.3-2008.

### 二、使用特性

- 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。

### Operational performance

- 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
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
Dual steel tape armor	2
Steel wire armor	3
PVC outer sheath	2
PE or Polyolefine sheath	3

### 四、型号名称

### Model Name

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 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 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塑复合带屏蔽控制电缆 Control cable with Copper conductor, XLPE insulation, PVC sheath, aluminum-polyester tape shielding
KYJV22	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 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 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 Control cable with Cu conductor, XLPE insulation, PVC sheath and steel wire armored.

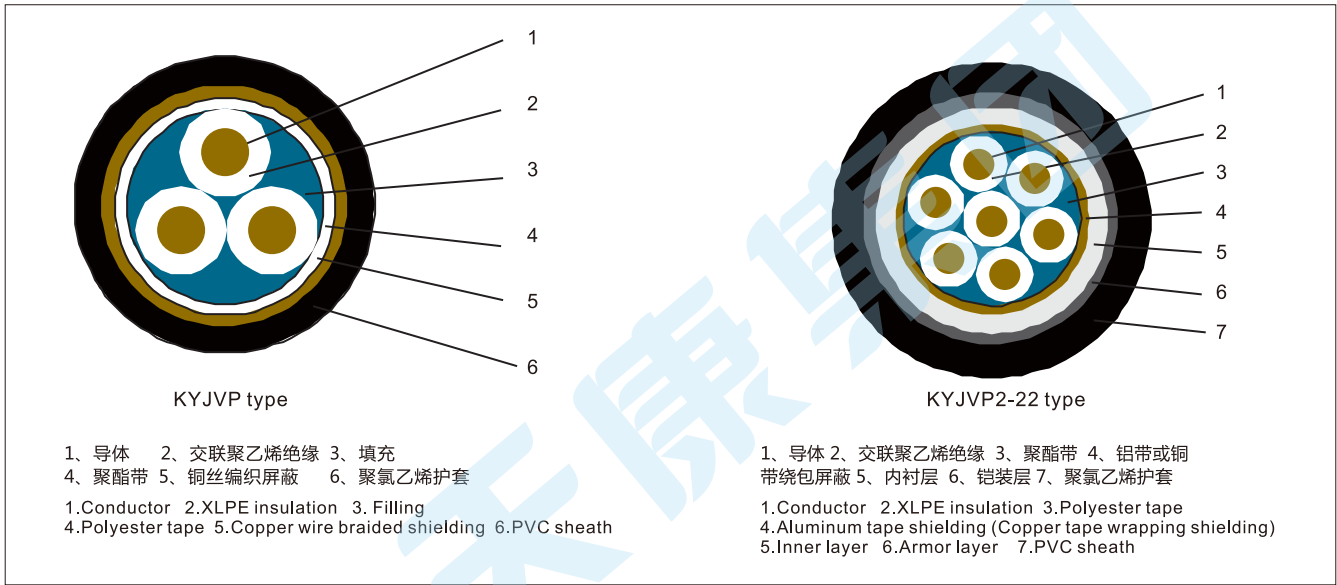
注：①用户需要阻燃型产品，订货时应在原型号前加“ZA-、ZB-、ZC-”，如：ZA-KYJV型等；  
②根据用户需要，还可提供生产未列出的型号的产品，如：KYJVP2-23、KYJV33等。

Prefix ZA-, ZB-, ZC is added to the original type for indication of flame resistance cable, for example, ZA-KYJV.  
We also produce unlisted type of cables as required, such as KYJVP2-23, KYJV33 and so on.



产品结构示意图

The figure of cable structure



**五、技术参数**

**Technical Parameter**

1、成品电缆导体20°C时直流电阻，

1、DC resistance of finished cable conductor at 20°C .

项目 Item	单位 Unit	技术指标 Technical indices							
		截面mm <sup>2</sup> Cross section area	0.75	1.0	1.5	2.5	4	6	10
20°C时导体直流电阻 DC resistance of conductor at 20°C	Ω/km	Category A, B类	24.5	18.1	12.1	7.41	4.61	3.08	1.83
		Category R类	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、成品电缆导体90°C时直流电阻，

3、DC resistance of finished cable conductor at 90°C .

项目 Item	单位 Unit	技术指标 Technical indices							
		截面mm <sup>2</sup> Cross section area	0.75	1.0	1.5	2.5	4	6	10
90°C时导体直流电阻 DC resistance of conductor at 90°C	Ω/km	Category A, B类	1.20	1.10	1.10	1.0	0.85	0.70	/
		Category R类	1.4	1.30	1.0	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远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.

## 六、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 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
2×0.75	1	7.7	3×0.75	1	8.1	4×0.75	1	8.6
2×0.75	2	7.9	3×0.75	2	8.3	4×0.75	2	8.8
2×1.0	1	8.0	3×1.0	1	8.4	4×1.0	1	8.9
2×1.0	2	8.2	3×1.0	2	8.6	4×1.0	2	9.2
2×1.5	1	8.5	3×1.5	1	8.9	4×1.5	1	9.5
2×1.5	2	8.7	3×1.5	2	9.1	4×1.5	2	9.7
2×2.5	1	9.6	3×2.5	1	10.1	4×2.5	1	10.9
2×2.5	2	9.8	3×2.5	2	10.3	4×2.5	2	11.1
2×4	1	10.5	3×4	1	11.1	4×4	1	12.0
2×4	2	10.8	3×4	2	11.4	4×4	2	12.3
2×6	1	11.5	3×6	1	12.1	4×6	1	13.7
2×6	2	11.8	3×6	2	12.5	4×6	2	14.2
2×10	2	14.2	3×10	2	15.0	4×10	2	16.2
5×0.75	1	9.2	7×0.75	1	9.8	8×0.75	1	10.7
5×0.75	2	9.4	7×0.75	2	10.1	8×0.75	2	11.0
5×1.0	1	9.6	7×1.0	1	10.2	8×1.0	1	11.2
5×1.0	2	9.8	7×1.0	2	10.5	8×1.0	2	11.5
5×1.5	1	10.2	7×1.5	1	10.9	8×1.5	1	12.0
5×1.5	2	10.5	7×1.5	2	11.2	8×1.5	2	12.4
5×2.5	1	11.8	7×2.5	1	12.7	8×2.5	1	14.6
5×2.5	2	12.0	7×2.5	2	13.5	8×2.5	2	14.9
5×4	1	12.9	7×4	1	14.5	8×4	1	16.1
5×4	2	13.9	7×4	2	15.0	8×4	2	16.6
5×6	1	14.8	7×6	1	16.0	8×6	1	17.7
5×6	2	15.3	7×6	2	16.6	8×6	2	18.4
5×10	2	17.6	7×10	2	19.1	8×10	2	21.8
10×0.75	1	11.8	12×0.75	1	12.2	14×0.75	1	12.7
10×0.75	2	12.2	12×0.75	2	12.6	14×0.75	2	13.7
10×1.0	1	12.4	12×1.0	1	12.8	14×1.0	1	13.9
10×1.0	2	12.8	12×1.0	2	13.8	14×1.0	2	14.3
10×1.5	1	14.0	12×1.5	1	14.4	14×1.5	1	15.0
10×1.5	2	14.3	12×1.5	2	14.8	14×1.5	2	15.4
10×2.5	1	16.3	12×2.5	1	16.7	14×2.5	1	17.5
10×2.5	2	16.6	12×2.5	2	17.1	14×2.5	2	17.9
10×4	1	18.0	12×4	1	18.5	14×4	1	19.8
10×4	2	18.6	12×4	2	19.1	14×4	2	20.4
10×6	1	20.3	12×6	1	20.9	14×6	1	21.9
10×6	2	21.1	12×6	2	21.7	14×6	2	22.8
10×10	2	24.5	19×0.75	1	14.5	24×0.75	1	16.6
16×0.75	1	13.9	19×0.75	2	15.0	24×0.75	2	17.1
16×0.75	2	14.3	19×1.0	1	15.2	24×1.0	1	17.4
16×1.0	1	14.5	19×1.0	2	15.7	24×1.0	2	18.0
16×1.0	2	15.0	19×1.5	1	16.4	24×1.5	1	18.9
16×1.5	1	15.7	19×1.5	2	16.9	24×1.5	2	19.8
16×1.5	2	16.1	19×2.5	1	19.7	24×2.5	1	22.7
16×2.5	1	18.4	19×2.5	2	20.2	24×2.5	2	23.3
16×2.5	2	18.8	30×0.75	1	17.4	37×0.75	1	18.6
27×0.75	1	16.9	30×0.75	2	18.0	37×0.75	2	19.7
27×0.75	2	17.5	30×1.0	1	18.3	37×1.0	1	20.0
27×1.0	1	17.7	30×1.0	2	18.9	37×1.0	2	20.7
27×1.0	2	18.3	30×1.5	1	20.2	37×1.5	1	21.7
27×1.5	1	19.2	30×1.5	2	20.9	37×1.5	2	22.4
27×1.5	2	20.2	30×2.5	1	23.9	37×2.5	1	25.7
27×2.5	1	23.1	30×2.5	2	24.6	37×2.5	2	26.4
27×2.5	2	23.7	48×0.75	1	21.4	52×0.75	1	21.9
44×0.75	1	21.1	48×0.75	2	22.2	52×0.75	2	22.7
44×0.75	2	21.8	48×1.0	1	22.5	52×1.0	1	23.1
44×1.0	1	22.2	48×1.0	2	23.3	52×1.0	2	23.9
44×1.0	2	23.0	48×1.5	1	24.5	52×1.5	1	25.1
44×1.5	1	24.1	48×1.5	2	25.3	52×1.5	2	25.9
44×1.5	2	24.9	48×2.5	1	29.8	52×2.5	1	30.6
44×2.5	1	29.3	48×2.5	2	30.6	52×2.5	2	31.4
44×2.5	2	30.1	61×1.0	1	24.2	61×1.5	1	26.3
61×0.75	1	22.9	61×1.0	2	25.1	61×1.5	2	27.2
61×0.75	2	23.8	61×2.5	1	32.0	61×2.5	2	32.9

**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, PVC sheath and copper wire braided shielding (KYJVP).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
2×0.75	1	8.7	2×0.75	2	8.9	3×0.75	1	9.1
2×1.0	1	9.0	2×1.0	2	9.2	3×1.0	1	9.4
2×1.5	1	9.5	2×1.5	2	9.7	3×1.5	1	9.9
2×2.5	1	10.6	2×2.5	2	10.8	3×2.5	1	11.1
2×4	1	11.5	2×4	2	11.8	3×4	1	12.1
2×6	1	12.5	2×6	2	13.4	3×6	1	13.7
/	/	/	2×10	2	15.4	/	/	/
3×0.75	2	9.3	4×0.75	1	9.6	4×0.75	2	9.8
3×1.0	2	9.6	4×1.0	1	9.9	4×1.0	2	10.2
3×1.5	2	10.1	4×1.5	1	10.5	4×1.5	2	10.8
3×2.5	2	11.3	4×2.5	1	11.9	4×2.5	2	12.2
3×4	2	12.4	4×4	1	13.5	4×4	2	13.9
3×6	2	14.1	4×6	1	14.9	4×6	2	15.4
3×10	2	16.2	/	/	/	4×10	2	17.5
5×0.75	1	10.2	5×0.75	2	10.4	7×0.75	1	10.8
5×1.0	1	10.6	5×1.0	2	10.8	7×1.0	1	11.2
5×1.5	1	11.2	5×1.5	2	11.5	7×1.5	1	11.9
5×2.5	1	13.3	5×2.5	2	13.6	7×2.5	1	14.2
5×4	1	14.7	5×4	2	15.1	7×4	1	15.8
5×6	1	16.0	5×6	2	16.6	7×6	1	17.2
/	/	/	5×10	2	18.9	/	/	/
7×0.75	2	11.1	8×0.75	1	11.7	8×0.75	2	12.1
7×1.0	2	11.5	8×1.0	1	12.2	8×1.0	2	12.5
7×1.5	2	12.2	8×1.5	1	13.6	8×1.5	2	14.0
7×2.5	2	14.8	8×2.5	1	15.8	8×2.5	2	16.2
7×4	2	16.2	8×4	1	17.3	8×4	2	17.8
7×6	2	17.8	8×6	1	19.4	8×6	2	20.0
7×10	2	20.8	/	/	/	8×10	2	23.3
10×0.75	1	13.4	10×0.75	2	13.8	12×0.75	1	13.8
10×1.0	1	14.0	10×1.0	2	14.4	12×1.0	1	14.4
10×1.5	1	15.2	10×1.5	2	15.6	12×1.5	1	15.6
10×2.5	1	17.5	10×2.5	2	17.9	12×2.5	1	18.0
10×4	1	19.6	10×4	2	20.2	12×4	1	20.2
10×6	1	21.5	10×6	2	22.3	12×6	1	22.2
12×0.75	2	14.2	14×0.75	1	14.3	14×0.75	2	14.9
12×1.0	2	15.0	14×1.0	1	15.2	14×1.0	2	15.6
12×1.5	2	16.0	14×1.5	1	16.2	14×1.5	2	16.6
12×2.5	2	18.4	14×2.5	1	18.8	14×2.5	2	19.6
12×4	2	20.8	14×4	1	21.0	14×4	2	21.7
12×6	2	23.0	14×6	1	23.2	14×6	2	24.0
16×0.75	1	15.1	16×0.75	2	15.6	19×0.75	1	15.7
16×1.0	1	15.8	16×1.0	2	16.2	19×1.0	1	16.5
16×1.5	1	16.9	16×1.5	2	17.4	19×1.5	1	17.7
16×2.5	1	20.0	16×2.5	2	20.5	19×2.5	1	20.9
19×0.75	2	16.2	24×0.75	1	17.8	24×0.75	2	18.4
19×1.0	2	16.9	24×1.0	1	18.7	24×1.0	2	19.6
19×1.5	2	18.1	24×1.5	1	20.5	24×1.5	2	21.1
19×2.5	2	21.4	24×2.5	1	23.9	24×2.5	2	24.5
27×0.75	1	18.1	27×0.75	2	18.7	30×0.75	1	18.6
27×1.0	1	19.4	27×1.0	2	20.0	30×1.0	1	20.0
27×1.5	1	20.9	27×1.5	2	21.4	30×1.5	1	21.5
27×2.5	1	24.4	27×2.5	2	25.2	30×2.5	1	25.4
30×0.75	2	19.6	37×0.75	1	20.2	37×0.75	2	20.9
30×1.0	2	20.6	37×1.0	1	21.3	37×1.0	2	21.9
30×1.5	2	22.1	37×1.5	1	22.9	37×1.5	2	23.6
30×2.5	2	26.0	37×2.5	1	27.2	37×2.5	2	27.9
44×0.75	1	22.3	44×0.75	2	23.1	48×0.75	1	22.6
44×1.0	1	23.5	44×1.0	2	24.2	48×1.0	1	23.8
44×1.5	1	25.6	44×1.5	2	26.4	48×1.5	1	26.0
44×2.5	1	30.8	44×2.5	2	31.6	48×2.5	1	31.3
48×0.75	2	23.4	52×0.75	1	23.2	52×0.75	2	24.0
48×1.0	2	24.6	52×1.0	1	24.4	52×1.0	2	25.4
48×1.5	2	26.8	52×1.5	1	26.6	52×1.5	2	27.4
48×2.5	2	32.0	52×2.5	1	32.0	52×2.5	2	32.9
61×0.75	1	24.4	61×1.0	1	25.9	61×1.5	1	28.6
61×2.5	1	33.8	61×0.75	2	25.5	61×1.0	2	26.8
61×1.5	2	29.5	61×2.5	2	35.1	/	/	/



**KYJVP2(P3)型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带(铝塑复合带)屏蔽控制电缆**

**Control cable with Cu conductor, XLPE insulation, PVC sheath and Copper tape /Aluminum polyester tape shielding (KYJV P2/P3).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
4×2.5	1	11.4	5×2.5	1	12.2	7×0.75	1	10.3
4×4	1	12.4	5×4	1	14.0	7×1.0	1	10.7
4×6	1	14.2	5×6	1	15.3	7×1.5	1	11.4
4×10	2	16.7	5×10	2	18.1	7×2.5	1	13.7
8×0.75	1	11.2	10×0.75	1	12.3	7×4	1	15.0
8×1.0	1	11.7	10×1.0	1	13.5	7×6	1	16.5
8×1.5	1	12.5	10×1.5	1	14.4	7×10	2	20.0
8×2.5	1	15.1	10×2.5	1	16.7	12×0.75	1	13.2
8×4	1	16.6	10×4	1	18.5	12×1.0	1	13.8
8×6	1	18.2	10×6	1	20.8	12×1.5	1	14.8
8×10	2	22.3	10×10	2	25.0	12×2.5	1	17.2
14×0.75	1	13.8	16×0.75	1	14.3	12×4	1	19.4
14×1.0	1	14.4	16×1.0	1	15.0	12×6	1	21.4
14×1.5	1	15.4	16×1.5	1	16.2	19×0.75	1	15.0
14×2.5	1	18.0	16×2.5	1	18.9	19×1.0	1	15.7
14×4	1	20.3	27×0.75	1	17.3	19×1.5	1	16.9
14×6	1	22.4	27×1.0	1	18.2	19×2.5	1	20.2
24×0.75	1	17.0	27×1.5	1	20.1	30×0.75	1	17.9
24×1.0	1	17.9	27×2.5	1	23.6	30×1.0	1	18.8
24×1.5	1	19.7	44×0.75	1	21.5	30×1.5	1	20.7
24×2.5	1	23.2	44×1.0	1	22.7	30×2.5	1	24.4
37×0.75	1	19.5	44×1.5	1	24.6	48×0.75	1	21.9
37×1.0	1	20.5	44×2.5	1	29.8	48×1.0	1	23.0
37×1.5	1	22.2	52×0.75	1	22.4	48×1.5	1	25.0
37×2.5	1	26.2	52×1.0	1	23.6	48×2.5	1	30.3
52×1.5	1	25.6	61×1.5	1	27.1	61×0.75	1	23.6
52×2.5	1	31.0	61×2.5	1	32.8	61×1.0	1	24.9

**KYJV22型铜芯交联聚乙烯绝缘聚氯乙烯护套铜带铠装控制电缆**

**Control cable with Cu conductor, XLPE insulation, PVC sheath and steel tape armored (KYJV 22).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
4×2.5	1	13.9	5×2.5	1	14.7	7×0.75	1	12.2
4×4	1	14.9	5×4	1	15.9	7×1.0	1	12.6
4×6	1	16.1	5×6	1	17.2	7×1.5	1	13.9
4×10	2	18.6	5×10	2	20.4	7×2.5	1	15.6
8×0.75	1	13.7	10×0.75	1	14.8	7×4	1	16.9
8×1.0	1	14.2	10×1.0	1	15.4	7×6	1	18.4
8×1.5	1	15.0	10×1.5	1	16.4	7×10	2	21.9
8×2.5	1	17.0	10×2.5	1	18.7	12×0.75	1	15.2
8×4	1	18.5	10×4	1	20.8	12×1.0	1	15.8
8×6	1	20.5	10×6	1	22.7	12×1.5	1	16.8
8×10	2	24.2	10×10	2	27.3	12×2.5	1	19.1
14×0.75	1	15.7	16×0.75	1	16.3	12×4	1	21.3
14×1.0	1	16.3	16×1.0	1	16.9	12×6	1	23.3
14×1.5	1	17.4	16×1.5	1	18.1	19×0.75	1	16.9
14×2.5	1	20.3	16×2.5	1	21.2	19×1.0	1	17.6
14×4	1	22.2	27×0.75	1	19.6	19×1.5	1	18.8
14×6	1	24.3	27×1.0	1	20.5	19×2.5	1	22.1
24×0.75	1	19.0	27×1.5	1	22.0	30×0.75	1	20.2
24×1.0	1	20.2	27×2.5	1	25.5	30×1.0	1	21.1
24×1.5	1	21.6	44×0.75	1	23.5	30×1.5	1	22.6
24×2.5	1	25.1	44×1.0	1	24.6	30×2.5	1	26.7
37×0.75	1	21.4	44×1.5	1	26.9	48×0.75	1	23.8
37×1.0	1	22.4	44×2.5	1	32.1	48×1.0	1	24.9
37×1.5	1	24.1	52×0.75	1	24.3	48×1.5	1	27.3
37×2.5	1	29.1	52×1.0	1	25.5	48×2.5	1	32.6
52×1.5	1	27.9	52×2.5	1	33.7	61×0.75	1	25.5
61×1.0	1	27.2	61×1.5	1	29.9	61×2.5	1	36.7

**KYJVP2-22型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**

**Control cable with Cu conductor, XLPE insulation, PVC sheath, Copper tape shielding and steel tape armored(KYJV P2-22).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
4×2.5	1	14.7	5×2.5	1	15.5	7×0.75	1	13.5
4×4	1	15.7	5×4	1	14.7	7×1.0	1	14.0
4×6	1	16.9	5×6	1	18.0	7×1.5	1	14.7
4×10	2	19.8	5×10	2	21.2	7×2.5	1	16.4
8×0.75	1	14.5	10×0.75	1	15.6	7×4	1	17.7
8×1.0	1	15.0	10×1.0	1	16.2	7×6	1	19.1
8×1.5	1	15.8	10×1.5	1	17.1	7×10	2	22.2
8×2.5	1	17.8	10×2.5	1	19.8	12×0.75	1	15.9
8×4	1	19.6	10×4	1	21.5	12×1.0	1	16.5
8×6	1	21.8	10×6	1	23.5	12×1.5	1	17.5
8×10	2	24.9	10×10	2	28.1	12×2.5	1	20.3
14×0.75	1	16.4	16×0.75	1	17.0	12×4	1	22.1
14×1.0	1	17.1	16×1.0	1	17.7	12×6	1	24.1
14×1.5	1	18.1	16×1.5	1	18.8	19×0.75	1	17.7
14×2.5	1	21.1	16×2.5	1	21.9	19×1.0	1	18.4
14×4	1	23.0	27×0.75	1	20.4	19×1.5	1	20.0
14×6	1	25.1	27×1.0	1	21.3	19×2.5	1	22.8
24×0.75	1	20.1	27×1.5	1	22.8	30×0.75	1	21.0
24×1.0	1	21.0	27×2.5	1	26.7	30×1.0	1	21.9
24×1.5	1	22.4	44×0.75	1	24.2	30×1.5	1	23.4
24×2.5	1	25.9	44×1.0	1	25.4	30×2.5	1	27.5
37×0.75	1	22.2	44×1.5	1	27.7	48×0.75	1	24.5
37×1.0	1	23.2	44×2.5	1	32.9	48×1.0	1	25.7
37×1.5	1	24.9	52×0.75	1	25.1	48×1.5	1	28.1
37×2.5	1	29.8	52×1.0	1	26.7	48×2.5	1	33.3
52×1.5	1	29.3	52×2.5	1	35.6	61×0.75	1	26.7
61×1.0	1	28.0	61×1.5	1	30.7	61×2.5	1	37.4

**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, PVC sheath and steel wire armored (KYJV 32).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter
4×4	1	16.6	5×4	1	17.5	7×1.5	1	14.7
4×6	1	17.7	5×6	1	18.8	7×2.5	1	17.3
4×10	2	20.7	5×10	2	22.7	7×4	1	18.6
8×1.5	1	16.6	10×1.5	1	18.0	7×6	1	20.4
8×2.5	1	18.6	10×2.5	1	20.7	7×10	2	24.2
8×4	1	20.5	10×4	1	23.1	12×1.5	1	18.4
8×6	1	22.8	10×6	1	25.0	12×2.5	1	21.8
8×10	2	26.5	10×10	2	30.2	12×4	1	23.6
14×1.5	1	19.0	16×1.5	1	20.1	12×6	1	25.6
14×2.5	1	22.6	16×2.5	1	23.5	19×0.75	1	18.5
14×4	1	24.5	27×0.75	1	21.9	19×1.0	1	19.2
14×6	1	26.6	27×1.0	1	22.8	19×1.5	1	20.8
24×0.75	1	21.0	27×1.5	1	24.8	19×2.5	1	24.4
24×1.0	1	22.5	27×2.5	1	27.9	30×0.75	1	22.5
24×1.5	1	23.9	44×0.75	1	25.8	30×1.0	1	23.4
24×2.5	1	27.4	44×1.0	1	26.9	30×1.5	1	24.9
37×0.75	1	23.7	44×1.5	1	29.8	30×2.5	1	29.6
37×1.0	1	24.7	44×2.5	1	35.6	48×0.75	1	26.1
37×1.5	1	26.4	52×0.75	1	26.1	48×1.0	1	27.3
37×2.5	1	31.4	52×1.0	1	27.3	48×1.5	1	30.2
52×1.5	1	30.2	52×2.5	1	36.0	48×2.5	1	36.0
61×0.75	1	27.8	61×1.0	1	30.1	61×1.5	1	33.0
61×2.5	1	38.6	/	/	/	/	/	/

# 聚氯乙烯绝缘和护套控制电缆

## Control Cable with PVC Insulation and Sheath

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/T9330.2-2008.

### Executive standard

GB/T9330.2-2008.

### 二、使用特性

- 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℃.
- 2.Environment temperature for installation is no less than 0℃. 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 Control cable with Cu core, PVC insulation and sheath	敷设在室内、电缆沟、管道固定场合 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 Control cable with Cu core, PVC 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 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 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 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 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 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 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 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 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 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 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 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 Control soft cable with Cu core, PVC insulation and sheath	敷设在室内移动要求柔软等场合 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 Control soft cable with Cu core, PVC insulation and sheath, braiding shielding	敷设在室内移动要求柔软、屏蔽等场合 To be laid indoor with demand on shielding and softness

注：①用户需要阻燃型产品，上述型号均可生产供货，只要在型号前加“Z A-、ZB-、ZC-”，如：ZA-KVV型等；

②根据用户需要，还可提供生产未列出的型号的产品，如：KVVP32、KVVP2-32等。

Note: Prefix ZA-、ZB-、ZC is added to the original type for indication of flame resistance cable, for example, ZA-KYJV.

We also produce unlisted type of cables as required, such as KVVP32、KVVP2-32 and so on.



## 各型号规格范围

## Various Specification Range

型号 Type	额定电压 V Rated voltage	导体标称截面 mm <sup>2</sup> 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	450/750	-	2~61			2~14		2~10	
KVVP2 KVVP3		-	4~61			4~14		4~10	
KVV22		-	7~61	4~61		4~14		4~10	
KVVP2-22		-	7~61	4~61		4~14		4~10	
KVV32		-	19~61	7~61		4~14		4~10	
KVVR		4~61			-	-	-		
KVVRP		4~61		4~68		-	-	-	

注：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。

Note: Cores recommended: 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 or 61.

## 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

## KVV type control cable with Cu core, PVC insulation and sheath.

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
2×0.75	1	7.7	0.012	3×0.75	1	8.1	0.012
2×0.75	2	7.9	0.014	3×0.75	2	8.3	0.014
2×1.0	1	8.0	0.011	3×1.0	1	8.4	0.011
2×1.0	2	8.2	0.013	3×1.0	2	8.6	0.013
2×1.5	1	8.9	0.011	3×1.5	1	9.3	0.011
2×1.5	2	9.1	0.010	3×1.5	2	9.5	0.010
2×2.5	1	10.0	0.010	3×2.5	1	10.5	0.010
2×2.5	2	10.2	0.009	3×2.5	2	10.7	0.009
2×4	1	10.9	0.0085	3×4	1	11.5	0.0085
2×4	2	11.2	0.0077	3×4	2	11.8	0.0077
2×6	1	11.8	0.0070	3×6	1	12.5	0.0070
2×6	2	12.2	0.0065	3×6	2	12.9	0.0065
2×10	2	15.3	0.0065	3×10	2	16.2	0.0065
4×0.75	1	8.6	0.012	5×0.75	1	9.2	0.012
4×0.75	2	8.8	0.014	5×0.75	2	9.4	0.014
4×1.0	1	8.9	0.011	5×1.0	1	9.6	0.011
4×1.0	2	9.2	0.013	5×1.0	2	9.8	0.013
4×1.5	1	10.0	0.011	5×1.5	1	10.7	0.011
4×1.5	2	10.2	0.010	5×1.5	2	11.0	0.010
4×2.5	1	11.4	0.010	5×2.5	1	12.3	0.010
4×2.5	2	11.6	0.009	5×2.5	2	12.5	0.009
4×4	1	12.4	0.0085	5×4	1	14.0	0.0085
4×4	2	12.8	0.0077	5×4	2	14.4	0.0077
4×6	1	14.2	0.0070	5×6	1	15.3	0.0070
4×6	2	14.6	0.0065	5×6	2	15.8	0.0065
4×10	2	17.6	0.0065	5×10	2	19.2	0.0065
7×0.75	1	9.8	0.012	8×0.75	1	10.7	0.012
7×0.75	2	10.1	0.014	8×0.75	2	11.0	0.014
7×1.0	1	10.2	0.011	8×1.0	1	11.2	0.011
7×1.0	2	10.5	0.013	8×1.0	2	11.5	0.013
7×1.5	1	11.5	0.011	8×1.5	1	12.7	0.011
7×1.5	2	11.8	0.010	8×1.5	2	13.6	0.010
7×2.5	1	13.8	0.010	8×2.5	1	15.3	0.010
7×2.5	2	14.1	0.009	8×2.5	2	15.6	0.009
7×4	1	15.1	0.0085	8×4	1	16.8	0.0085
7×4	2	15.5	0.0077	8×4	2	17.3	0.0077
7×6	1	16.6	0.0070	8×6	1	18.4	0.0070
7×6	2	17.1	0.0065	8×6	2	19.1	0.0065
7×10	2	21.3	0.0065	8×10	2	23.8	0.0065

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70℃最小绝缘电阻 mΩ.km Min insulated resistance at 70℃	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70℃最小绝缘电阻 mΩ.km Min insulated resistance at 70℃
10×0.75	1	11.8	0.012	12×0.75	1	12.2	0.012
10×0.75	2	12.2	0.014	12×0.75	2	12.6	0.014
10×1.0	1	12.4	0.011	12×1.0	1	12.8	0.011
10×1.0	2	12.8	0.013	12×1.0	2	13.8	0.013
10×1.5	1	14.7	0.011	12×1.5	1	15.2	0.011
10×1.5	2	15.1	0.010	12×1.5	2	15.5	0.010
10×2.5	1	17.0	0.010	12×2.5	1	17.5	0.010
10×2.5	2	17.4	0.009	12×2.5	2	17.9	0.009
10×4	1	18.8	0.0085	12×4	1	19.7	0.0085
10×4	2	19.7	0.0077	12×4	2	20.3	0.0077
10×6	1	21.1	0.0070	12×6	1	21.7	0.0070
10×6	2	21.8	0.0065	12×6	2	22.5	0.0065
10×10	2	26.8	0.0065	/	/	/	/
14×0.75	1	12.7	0.012	16×0.75	1	13.9	0.012
14×0.75	2	13.7	0.014	16×0.75	2	14.3	0.014
14×1.0	1	13.9	0.011	16×1.0	1	14.5	0.011
14×1.0	2	14.3	0.013	16×1.0	2	15.0	0.013
14×1.5	1	15.8	0.011	16×1.5	1	16.6	0.011
14×1.5	2	16.2	0.010	16×1.5	2	17.0	0.010
14×2.5	1	18.4	0.010	16×2.5	1	19.3	0.010
14×2.5	2	18.8	0.009	16×2.5	2	20.1	0.009
14×4	1	20.6	0.0085	24×0.75	1	16.6	0.012
14×4	2	21.3	0.0077	24×0.75	2	17.1	0.014
14×6	1	22.8	0.0070	24×1.0	1	17.4	0.011
14×6	2	23.6	0.0065	24×1.0	2	18.0	0.013
19×0.75	1	14.5	0.012	24×1.5	1	20.4	0.011
19×0.75	2	15.0	0.014	24×1.5	2	21.0	0.010
19×1.0	1	15.2	0.011	24×2.5	1	23.8	0.010
19×1.0	2	15.7	0.013	24×2.5	2	24.4	0.009
19×1.5	1	17.4	0.011	30×0.75	1	17.4	0.012
19×1.5	2	17.8	0.010	30×0.75	2	18.0	0.014
19×2.5	1	20.6	0.010	30×1.0	1	18.5	0.011
19×2.5	2	21.1	0.009	30×1.0	2	19.5	0.013
27×0.75	1	16.9	0.012	30×1.5	1	21.5	0.011
27×0.75	2	17.5	0.014	30×1.5	2	22.5	0.010
27×1.0	1	17.7	0.011	30×2.5	1	24.9	0.010
27×1.0	2	18.3	0.013	30×2.5	2	26.3	0.009
27×1.5	1	20.8	0.011	44×0.75	1	21.1	0.012
27×1.5	2	21.4	0.010	44×0.75	2	21.8	0.014
27×2.5	1	24.3	0.010	44×1.0	1	22.2	0.011
27×2.5	2	24.9	0.009	44×1.0	2	23.0	0.013
37×0.75	1	18.5	0.012	44×1.5	1	25.7	0.011
37×0.75	2	19.8	0.014	44×1.5	2	26.4	0.010
37×1.0	1	20.0	0.011	44×2.5	1	30.9	0.010
37×1.0	2	20.7	0.013	44×2.5	2	31.6	0.009
37×1.5	1	23.0	0.011	52×0.75	1	21.9	0.012
37×1.5	2	23.7	0.010	52×0.75	2	22.7	0.014
37×2.5	1	27.1	0.010	52×1.0	1	23.1	0.011
37×2.5	2	27.7	0.009	52×1.0	2	23.9	0.013
48×0.75	1	21.4	0.012	52×1.5	1	26.8	0.011
48×0.75	2	22.2	0.014	52×1.5	2	27.6	0.010
48×1.0	1	22.5	0.011	52×2.5	1	32.2	0.010
48×1.0	2	23.3	0.013	52×2.5	2	33.0	0.009
48×1.5	1	26.1	0.011	61×0.75	1	22.9	0.012
48×1.5	2	26.9	0.010	61×0.75	2	23.8	0.014
48×2.5	1	31.3	0.010	61×1.0	1	24.2	0.011
48×2.5	2	32.1	0.009	61×1.0	2	25.1	0.013
61×1.5	1	28.0	0.011	61×2.5	1	34.1	0.010
61×1.5	2	29.5	0.010	61×2.5	2	35.0	0.009

**KVVP型铜芯聚氯乙烯绝缘及护套编织屏蔽控制电缆**

**KVVP type control cable with Cu core, PVC insulation and sheath, braided shield.**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70℃最小绝缘电阻 mΩ.km Min insulated resistance at 70℃	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70℃最小绝缘电阻 mΩ.km Min insulated resistance at 70℃
2×0.75	1	8.7	0.012	2×0.75	2	8.9	0.014
2×1.0	1	9.0	0.011	2×1.0	2	9.2	0.013
2×1.5	1	9.9	0.011	2×1.5	2	10.1	0.010
2×2.5	1	11.0	0.010	2×2.5	2	11.2	0.009
2×4	1	11.9	0.0085	2×4	2	12.2	0.0077
2×6	1	12.9	0.0070	2×6	2	13.8	0.0065
/	/	/	/	2×10	2	16.6	0.0065
3×0.75	1	9.1	0.012	3×0.75	2	9.3	0.014
3×1.0	1	9.4	0.011	3×1.0	2	9.6	0.013
3×1.5	1	10.3	0.011	3×1.5	2	10.5	0.010
3×2.5	1	11.5	0.010	3×2.5	2	11.8	0.009
3×4	1	12.5	0.0085	3×4	2	12.8	0.0077
3×6	1	14.1	0.0070	3×6	2	14.7	0.0065
/	/	/	/	3×10	2	17.4	0.0065
4×0.75	1	9.6	0.012	4×0.75	2	9.8	0.014
4×1.0	1	9.9	0.011	4×1.0	2	10.2	0.013
4×1.5	1	11.0	0.011	4×1.5	2	11.2	0.010
4×2.5	1	12.4	0.010	4×2.5	2	12.6	0.009
4×4	1	14.0	0.0085	4×4	2	14.6	0.0077
4×6	1	15.4	0.0070	4×6	2	15.9	0.0065
/	/	/	/	4×10	2	18.9	0.0065
5×0.75	1	10.2	0.012	5×0.75	2	10.4	0.014
5×1.0	1	10.6	0.011	5×1.0	2	10.8	0.013
5×1.5	1	11.7	0.011	5×1.5	2	12.0	0.010
5×2.5	1	13.9	0.010	5×2.5	2	14.1	0.009
5×4	1	15.3	0.0085	5×4	2	15.7	0.0077
5×6	1	16.6	0.0070	5×6	2	17.1	0.0065
/	/	/	/	5×10	2	20.8	0.0065
7×0.75	1	10.8	0.012	7×0.75	2	11.1	0.014
7×1.0	1	11.2	0.011	7×1.0	2	11.5	0.013
7×1.5	1	12.5	0.011	7×1.5	2	12.8	0.010
7×2.5	1	15.1	0.010	7×2.5	2	15.4	0.009
7×4	1	16.4	0.0085	7×4	2	16.8	0.0077
7×6	1	17.8	0.0070	7×6	2	18.4	0.0065
/	/	/	/	7×10	2	22.5	0.0065
8×0.75	1	11.7	0.012	8×0.75	2	12.1	0.014
8×1.0	1	12.2	0.011	8×1.0	2	12.5	0.013
8×1.5	1	14.5	0.011	8×1.5	2	14.9	0.010
8×2.5	1	16.5	0.010	8×2.5	2	16.8	0.009
8×4	1	18.0	0.0085	8×4	2	18.5	0.0077
8×6	1	20.0	0.0070	8×6	2	20.7	0.0065
/	/	/	/	8×10	2	25.2	0.0065
10×0.75	1	12.9	0.012	10×0.75	2	13.8	0.014
10×1.0	1	14.0	0.011	10×1.0	2	14.6	0.013
10×1.5	1	16.0	0.011	10×1.5	2	16.4	0.010
10×2.5	1	18.3	0.010	10×2.5	2	18.7	0.009
10×4	1	20.4	0.0085	10×4	2	21.0	0.0077
10×6	1	22.3	0.0070	10×6	2	23.1	0.0065
/	/	/	/	10×10	2	28.9	0.0065
12×0.75	1	13.8	0.012	12×0.75	2	14.2	0.014
12×1.0	1	14.6	0.011	12×1.0	2	15.0	0.013
12×1.5	1	16.4	0.011	12×1.5	2	16.8	0.010
12×2.5	1	18.8	0.010	12×2.5	2	19.2	0.009
12×4	1	21.0	0.0085	12×4	2	21.6	0.0077
12×6	1	23.0	0.0070	12×6	2	23.8	0.0065
14×0.75	1	14.5	0.012	14×0.75	2	14.9	0.014
14×1.0	1	15.2	0.011	14×1.0	2	15.6	0.013
14×1.5	1	17.1	0.011	14×1.5	2	17.5	0.010
14×2.5	1	20.0	0.010	14×2.5	2	20.4	0.009
14×4	1	21.9	0.0085	14×4	2	22.5	0.0077
14×6	1	24.0	0.0070	14×6	2	25.1	0.0065
16×0.75	1	15.1	0.012	16×0.75	2	15.6	0.014
16×1.0	1	15.8	0.011	16×1.0	2	16.2	0.013
16×1.5	1	17.8	0.011	16×1.5	2	18.3	0.010
16×2.5	1	20.9	0.010	16×2.5	2	21.4	0.009
19×0.75	1	15.7	0.012	19×0.75	2	16.2	0.014



19×1.0	1	16.5	0.011	19×1.0	2	16.9	0.013
19×1.5	1	18.6	0.011	19×1.5	2	19.1	0.010
19×2.5	1	21.9	0.010	19×2.5	2	22.4	0.009
24×0.75	1	17.8	0.012	24×0.75	2	18.4	0.014
24×1.0	1	18.7	0.011	24×1.0	2	19.2	0.013
24×1.5	1	21.6	0.011	24×1.5	2	22.2	0.010
24×2.5	1	25.3	0.010	24×2.5	2	25.9	0.009
27×0.75	1	18.1	0.012	27×0.75	2	18.7	0.014
27×1.0	1	19.0	0.011	27×1.0	2	20.0	0.013
27×1.5	1	22.0	0.011	27×1.5	2	22.6	0.010
27×2.5	1	25.8	0.010	27×2.5	2	26.4	0.009
30×0.75	1	18.6	0.012	30×0.75	2	19.3	0.014
30×1.0	1	20.0	0.011	30×1.0	2	20.6	0.013
30×1.5	1	22.7	0.011	30×1.5	2	23.3	0.010
30×2.5	1	26.7	0.010	30×2.5	2	27.3	0.009
37×0.75	1	20.2	0.012	37×0.75	2	20.9	0.014
37×1.0	1	21.3	0.011	37×1.0	2	21.9	0.013
37×1.5	1	24.3	0.011	37×1.5	2	25.2	0.010
37×2.5	1	29.1	0.010	37×2.5	2	29.8	0.009
44×0.75	1	22.3	0.012	44×0.75	2	23.1	0.014
44×1.0	1	23.5	0.011	44×1.0	2	24.2	0.013
44×1.5	1	26.8	0.011	44×1.5	2	27.9	0.010
44×2.5	1	32.0	0.010	44×2.5	2	33.3	0.009
48×0.75	1	22.2	0.012	48×0.75	2	23.4	0.014
48×1.0	1	23.5	0.011	48×1.0	2	24.6	0.013
48×1.5	1	27.1	0.011	48×1.5	2	28.9	0.010
48×2.5	1	32.5	0.010	48×2.5	2	33.6	0.009
52×0.75	1	22.6	0.012	52×0.75	2	23.7	0.014
52×1.0	1	24.3	0.011	52×1.0	2	25.4	0.013
52×1.5	1	27.9	0.011	52×1.5	2	29.6	0.010
52×2.5	1	33.4	0.010	52×2.5	2	35.0	0.009
61×0.75	1	24.0	0.012	61×0.75	2	24.9	0.014
61×1.0	1	25.5	0.011	61×1.0	2	26.5	0.013
61×1.5	1	29.9	0.011	61×1.5	2	30.9	0.010
61×2.5	1	35.7	0.010	61×2.5	2	37.1	0.009

**KVVP2(P3)型铜芯聚氯乙烯绝缘及护套铜带(铝塑复合带)屏蔽控制电缆**

**Control cable with Cu core, PVC insulation, PVC sheath and Copper tape /Aluminum polyester tape shielding (KVVP2/P3).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
4×0.75	1	9.1	0.012	5×0.75	1	9.6	0.012
4×1.0	1	9.4	0.011	5×1.0	1	10.0	0.011
4×1.5	1	10.5	0.011	5×1.5	1	11.2	0.011
4×2.5	1	11.9	0.010	5×2.5	1	12.8	0.010
4×4	1	13.5	0.0085	5×4	1	14.5	0.0085
4×6	1	14.6	0.0070	5×6	1	15.8	0.0070
4×10	2	18.1	0.0065	5×10	2	20.1	0.0065
7×0.75	1	10.3	0.012	8×0.75	1	11.2	0.012
7×1.0	1	10.7	0.011	8×1.0	1	11.7	0.011
7×1.5	1	12.0	0.011	8×1.5	1	13.8	0.011
7×2.5	1	14.3	0.010	8×2.5	1	15.7	0.010
7×4	1	15.6	0.0085	8×4	1	17.2	0.0085
7×6	1	17.0	0.0070	8×6	1	18.9	0.0070
7×10	2	21.7	0.0065	8×10	2	24.2	0.0065
10×0.75	1	12.3	0.012	10×4	1	19.6	0.0085
10×1.0	1	13.5	0.011	10×6	1	21.5	0.0070
10×1.5	1	15.2	0.011	10×10	2	27.3	0.0065
10×2.5	1	17.5	0.010	/	/	/	/
12×0.75	1	12.7	0.012	14×0.75	1	13.2	0.012
12×1.0	1	13.8	0.011	14×1.0	1	14.4	0.011
12×1.5	1	15.6	0.011	14×1.5	1	16.3	0.011
12×2.5	1	18.0	0.010	14×2.5	1	18.8	0.010
12×4	1	20.2	0.0085	14×4	1	21.1	0.0085
12×6	1	22.2	0.0070	14×6	1	23.2	0.0070
16×0.75	1	14.3	0.012	19×0.75	1	15.0	0.012
16×1.0	1	15.0	0.011	19×1.0	1	15.7	0.011
16×1.5	1	17.1	0.011	19×1.5	1	17.8	0.011
16×2.5	1	20.1	0.010	19×2.5	1	21.1	0.010
24×0.75	1	17.0	0.012	27×0.75	1	17.3	0.012
24×1.0	1	17.9	0.011	27×1.0	1	18.2	0.011
24×1.5	1	20.9	0.011	27×1.5	1	21.3	0.011
24×2.5	1	24.3	0.010	27×2.5	1	24.8	0.010
30×0.75	1	17.9	0.012	37×0.75	1	19.1	0.012
30×1.0	1	18.8	0.011	37×1.0	1	20.5	0.011
30×1.5	1	22.0	0.011	37×1.5	1	23.5	0.011
30×2.5	1	25.6	0.010	37×2.5	1	27.5	0.010
44×0.75	1	21.5	0.012	48×0.75	1	21.9	0.012
44×1.0	1	22.7	0.011	48×1.0	1	23.0	0.011
44×1.5	1	26.2	0.011	48×1.5	1	26.5	0.011
44×2.5	1	31.3	0.010	48×2.5	1	31.8	0.010
52×0.75	1	22.4	0.012	61×0.75	1	23.6	0.012
52×1.0	1	23.6	0.011	61×1.0	1	24.9	0.011
52×1.5	1	27.2	0.011	61×1.5	1	29.4	0.011
52×2.5	1	32.7	0.010	61×2.5	1	34.9	0.010

**KVV22型铜芯聚氯乙烯绝缘及护套钢带铠装控制电缆**

**KVV22 type control cable with Cu core, PVC insulation and sheath, steel tape armoring.**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
4×1.5	1	13.0	0.011	5×1.5	1	13.7	0.011
4×2.5	1	14.4	0.010	5×2.5	1	15.3	0.010
4×4	1	15.4	0.0085	5×4	1	16.4	0.0085
4×6	1	16.6	0.0070	5×6	1	17.7	0.0070
4×10	2	20.4	0.0065	5×10	2	22.0	0.0065
7×0.75	1	12.8	0.012	8×0.75	1	13.7	0.012
7×1.0	1	13.2	0.011	8×1.0	1	14.2	0.011
7×1.5	1	14.5	0.011	8×1.5	1	15.7	0.011
7×2.5	1	16.2	0.010	8×2.5	1	17.7	0.010
7×4	1	17.5	0.0085	8×4	1	19.2	0.0085
7×6	1	19.0	0.0070	8×6	1	21.2	0.0070
7×10	2	23.7	0.0065	8×10	2	26.2	0.0065
10×0.75	1	14.8	0.012	14×0.75	1	15.7	0.012
10×1.0	1	15.4	0.011	14×1.0	1	16.3	0.011
10×1.5	1	17.1	0.011	14×1.5	1	18.2	0.011
10×2.5	1	19.8	0.010	14×2.5	1	21.1	0.010
10×4	1	21.5	0.0085	14×4	1	23.0	0.0085
10×6	1	23.5	0.0070	14×6	1	25.2	0.0070
10×10	2	30.2	0.0065	16×0.75	1	16.3	0.012
12×0.75	1	15.1	0.012	16×1.0	1	17.0	0.011
12×1.0	1	15.8	0.011	16×1.5	1	19.0	0.011
12×1.5	1	17.6	0.011	16×2.5	1	22.1	0.010
12×2.5	1	20.3	0.010	19×0.75	1	16.9	0.012
12×4	1	22.1	0.0085	19×1.0	1	17.6	0.011
12×6	1	24.1	0.0070	19×1.5	1	20.2	0.011
/	/	/	/	19×2.5	1	23.0	0.010
24×0.75	1	19.0	0.012	27×0.75	1	19.7	0.012
24×1.0	1	20.2	0.011	27×1.0	1	20.5	0.011
24×1.5	1	22.8	0.011	27×1.5	1	23.2	0.011
24×2.5	1	26.6	0.010	27×2.5	1	27.1	0.010
30×0.75	1	20.2	0.012	37×0.75	1	21.4	0.012
30×1.0	1	21.1	0.011	37×1.0	1	22.4	0.011
30×1.5	1	23.9	0.011	37×1.5	1	25.4	0.011
30×2.5	1	28.0	0.010	37×2.5	1	30.4	0.010
44×0.75	1	23.5	0.012	48×0.75	1	23.8	0.012
44×1.0	1	24.6	0.011	48×1.0	1	25.0	0.011
44×1.5	1	29.0	0.011	48×1.5	1	29.4	0.011
44×2.5	1	34.0	0.010	48×2.5	1	34.5	0.010
52×0.75	1	24.3	0.012	61×0.75	1	25.5	0.012
52×1.0	1	25.5	0.011	61×1.0	1	27.2	0.011
52×1.5	1	30.1	0.011	61×1.5	1	31.7	0.011
52×2.5	1	36.5	0.010	61×2.5	1	38.4	0.010

**KVVP2-22型铜芯聚氯乙烯绝缘及护套铜带屏蔽钢带铠装控制电缆**

**Control cable with Cu core, PVC insulation & sheath, Copper tape shielding and steel tape armored (KVVP2-22).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
4×1.5	1	13.7	0.011	5×1.5	1	14.5	0.011
4×2.5	1	15.1	0.010	5×2.5	1	16.0	0.010
4×4	1	16.2	0.0085	5×4	1	17.2	0.0085
4×6	1	17.3	0.0070	5×6	1	18.5	0.0070
4×10	2	21.2	0.0065	5×10	2	22.8	0.0065
7×0.75	1	13.5	0.012	8×0.75	1	14.5	0.012
7×1.0	1	14.0	0.011	8×1.0	1	15.0	0.011
7×1.5	1	15.3	0.011	8×1.5	1	16.4	0.011
7×2.5	1	17.0	0.010	8×2.5	1	18.4	0.010
7×4	1	18.3	0.0085	8×4	1	20.3	0.0085
7×6	1	20.1	0.0070	8×6	1	22.0	0.0070
7×10	2	24.4	0.0065	8×10	2	27.3	0.0065
10×0.75	1	15.6	0.012	10×4	1	22.3	0.0085
10×1.0	1	16.2	0.011	10×6	1	24.2	0.0070
10×1.5	1	17.9	0.011	10×10	2	31.0	0.0065
10×2.5	1	20.6	0.010	/	/	/	/
12×0.75	1	15.9	0.012	14×0.75	1	16.4	0.012
12×1.0	1	16.5	0.011	14×1.0	1	17.1	0.011
12×1.5	1	18.3	0.011	14×1.5	1	19.4	0.011
12×2.5	1	21.1	0.010	14×2.5	1	21.9	0.010
12×4	1	22.9	0.0085	14×4	1	23.8	0.0085
12×6	1	24.9	0.0070	14×6	1	25.9	0.0070
16×0.75	1	17.0	0.012	19×0.75	1	17.7	0.012
16×1.0	1	17.7	0.011	19×1.0	1	18.4	0.011
16×1.5	1	20.1	0.011	19×1.5	1	20.9	0.011
16×2.5	1	22.8	0.010	19×2.5	1	23.8	0.010
24×0.75	1	20.1	0.012	27×0.75	1	20.4	0.012
24×1.0	1	21.0	0.011	27×1.0	1	21.3	0.011
24×1.5	1	23.6	0.011	27×1.5	1	24.0	0.011
24×2.5	1	27.4	0.010	27×2.5	1	27.9	0.010
30×0.75	1	21.0	0.012	37×0.75	1	22.2	0.012
30×1.0	1	21.9	0.011	37×1.0	1	23.2	0.011
30×1.5	1	24.6	0.011	37×1.5	1	26.6	0.011
30×2.5	1	29.3	0.010	37×2.5	1	31.2	0.010
44×0.75	1	24.2	0.012	48×0.75	1	24.5	0.012
44×1.0	1	25.4	0.011	48×1.0	1	25.7	0.011
44×1.5	1	29.8	0.011	48×1.5	1	30.2	0.011
44×2.5	1	34.8	0.010	48×2.5	1	36.4	0.010
52×0.75	1	25.9	0.012	61×0.75	1	26.7	0.012
52×1.0	1	27.6	0.011	61×1.0	1	28.0	0.011
52×1.5	1	31.9	0.011	61×1.5	1	32.4	0.011
52×2.5	1	38.5	0.010	61×2.5	1	39.2	0.010



**KVV32型铜芯聚氯乙烯绝缘及护套钢丝铠装控制电缆**

**Control cable with Cu core, PVC insulation, & sheath and steel wire armored (KVV32).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
4×4	1	17.0	0.0085	5×4	1	18.0	0.0085
4×6	1	18.2	0.0070	5×6	1	19.7	0.0070
4×10	2	22.7	0.0065	5×10	2	24.3	0.0065
7×1.5	1	16.1	0.011	8×1.5	1	17.3	0.011
7×2.5	1	17.8	0.010	8×2.5	1	19.7	0.010
7×4	1	19.1	0.0085	8×4	1	21.8	0.0085
7×6	1	21.0	0.0070	8×6	1	23.5	0.0070
7×10	2	26.0	0.0065	8×10	2	28.5	0.0065
10×1.5	1	18.8	0.011	10×4	1	23.8	0.0085
10×2.5	1	22.1	0.010	10×6	1	25.8	0.0070
10×10	2	33.3	0.0065	/	/	/	/
12×1.5	1	19.2	0.011	14×1.5	1	20.2	0.011
12×2.5	1	22.6	0.010	14×2.5	1	23.4	0.010
12×4	1	24.4	0.0085	14×4	1	25.3	0.0085
12×6	1	26.4	0.0070	14×6	1	27.5	0.0070
16×1.5	1	21.0	0.011	19×0.75	1	18.5	0.012
16×2.5	1	24.4	0.010	19×1.0	1	19.2	0.011
24×0.75	1	21.0	0.012	19×1.5	1	22.5	0.011
24×1.0	1	22.5	0.011	19×2.5	1	25.3	0.010
24×1.5	1	25.1	0.011	27×0.75	1	21.9	0.012
24×2.5	1	29.5	0.010	27×1.0	1	22.8	0.011
30×0.75	1	22.5	0.012	27×1.5	1	25.5	0.011
30×1.0	1	23.4	0.011	27×2.5	1	30.0	0.010
30×1.5	1	26.2	0.011	37×0.75	1	23.7	0.012
30×2.5	1	30.8	0.010	37×1.0	1	24.7	0.011
44×0.75	1	25.8	0.012	37×1.5	1	27.7	0.011
44×1.0	1	26.9	0.011	37×2.5	1	33.5	0.010
44×1.5	1	31.3	0.011	48×0.75	1	26.1	0.012
44×2.5	1	37.1	0.010	48×1.0	1	27.3	0.011
52×0.75	1	26.1	0.012	48×1.5	1	31.7	0.011
52×1.0	1	27.3	0.011	48×2.5	1	37.6	0.010
52×1.5	1	31.7	0.011	61×0.75	1	27.8	0.012
52×2.5	1	37.6	0.010	61×1.0	1	30.1	0.011
61×1.5	1	35.1	0.011	61×2.5	1	40.3	0.010

**KVVR型铜芯聚氯乙烯绝缘及护套控制软电缆**

**Copper core control flexible cable, PVC insulation&sheath (KVVR).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
2×0.5	5	7.4	0.013	3×0.5	5	7.8	0.013
2×0.75	5	7.7	0.011	3×0.75	5	8.1	0.011
2×1.0	5	8.0	0.010	3×1.0	5	8.4	0.010
2×1.5	5	8.9	0.010	3×1.5	5	9.3	0.010
2×2.5	5	10.1	0.009	3×2.5	5	10.7	0.009
4×0.5	5	8.3	0.013	5×0.5	5	8.9	0.013
4×0.75	5	8.6	0.011	5×0.75	5	9.3	0.011
4×1.0	5	9.0	0.010	5×1.0	5	9.6	0.010
4×1.5	5	10.0	0.010	5×1.5	5	10.8	0.010
4×2.5	5	11.5	0.009	5×2.5	5	12.5	0.009
7×0.5	5	9.5	0.013	8×0.5	5	10.4	0.013
7×0.75	5	9.9	0.011	8×0.75	5	10.9	0.011
7×1.0	5	10.3	0.010	8×1.0	5	11.4	0.010
7×1.5	5	11.6	0.010	8×1.5	5	13.5	0.010
7×2.5	5	14.1	0.009	8×2.5	5	15.6	0.009
10×0.5	5	11.5	0.013	12×0.5	5	11.9	0.013
10×0.75	5	12.1	0.011	12×0.75	5	12.5	0.011
10×1.0	5	13.3	0.010	12×1.0	5	13.7	0.010
10×1.5	5	15.0	0.010	12×1.5	5	15.4	0.010
10×2.5	5	17.5	0.009	12×2.5	5	18.0	0.009
14×0.5	5	12.4	0.013	16×0.5	5	13.6	0.013
14×0.75	5	13.6	0.011	16×0.75	5	14.2	0.011
14×1.0	5	14.2	0.010	16×1.0	5	14.9	0.010
14×1.5	5	16.1	0.010	16×1.5	5	17.0	0.010
14×2.5	5	18.9	0.009	16×2.5	5	20.3	0.009
19×0.5	5	14.2	0.013	24×0.5	5	16.3	0.013
19×0.75	5	14.9	0.011	24×0.75	5	17.1	0.011
19×1.0	5	15.6	0.010	24×1.0	5	18.0	0.010
19×1.5	5	17.8	0.010	24×1.5	5	21.0	0.010
19×2.5	5	21.3	0.009	24×2.5	5	24.7	0.009
27×0.5	5	16.6	0.013	30×0.5	5	17.1	0.013
27×0.75	5	17.4	0.011	30×0.75	5	18.0	0.011
27×1.0	5	18.3	0.010	30×1.0	5	18.9	0.010
27×1.5	5	21.4	0.010	30×1.5	5	22.1	0.010
27×2.5	5	25.2	0.009	30×2.5	5	26.1	0.009
37×0.5	5	18.3	0.013	44×0.5	5	20.8	0.013
37×0.75	5	19.7	0.011	44×0.75	5	21.9	0.011
37×1.0	5	20.7	0.010	44×1.0	5	23.1	0.010
37×1.5	5	23.7	0.010	44×1.5	5	26.5	0.010
37×2.5	5	28.7	0.009	44×2.5	5	32.1	0.009
48×0.5	5	21.1	0.013	52×0.5	5	21.6	0.013
48×0.75	5	22.2	0.011	52×0.75	5	22.8	0.011
48×1.0	5	23.4	0.010	52×1.0	5	24.0	0.010
48×1.5	5	26.9	0.010	52×1.5	5	27.7	0.010
48×2.5	5	32.6	0.009	52×2.5	5	33.9	0.009
61×0.5	5	22.8	0.013	61×1.5	5	29.9	0.010
61×0.75	5	24.1	0.011	61×2.5	5	35.9	0.009
61×1.0	5	25.4	0.010	/	/	/	/

**KVVRP型铜芯聚氯乙烯绝缘及护套编织屏蔽控制软电缆**

**Control soft cable with Cu conductor, PVC insulation&sheath and copper braided shield (KVVRP).**

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C	芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross section area	导体种类 Conductor category	外径mm Outer diameter	70°C最小绝缘电阻 mΩ.km Min insulated resistance at 70°C
2×0.5	5	8.4	0.013	3×0.5	5	8.8	0.013
2×0.75	5	8.7	0.011	3×0.75	5	9.1	0.011
2×1.0	5	9.0	0.010	3×1.0	5	9.4	0.010
2×1.5	5	9.9	0.010	3×1.5	5	10.3	0.010
2×2.5	5	11.1	0.009	3×2.5	5	11.7	0.009
4×0.5	5	9.3	0.013	5×0.5	5	9.9	0.013
4×0.75	5	9.6	0.011	5×0.75	5	10.3	0.011
4×1.0	5	10.0	0.010	5×1.0	5	10.7	0.010
4×1.5	5	11.0	0.010	5×1.5	5	11.8	0.010
4×2.5	5	12.5	0.009	5×2.5	5	14.3	0.009
7×0.5	5	10.5	0.013	8×0.5	5	11.4	0.013
7×0.75	5	10.9	0.011	8×0.75	5	11.9	0.011
7×1.0	5	11.4	0.010	8×1.0	5	12.4	0.010
7×1.5	5	13.2	0.010	8×1.5	5	14.7	0.010
7×2.5	5	15.3	0.009	8×2.5	5	16.9	0.009
10×0.5	5	12.6	0.013	12×0.5	5	13.5	0.013
10×0.75	5	13.7	0.011	12×0.75	5	14.3	0.011
10×1.0	5	14.5	0.010	12×1.0	5	14.9	0.010
10×1.5	5	16.3	0.010	12×1.5	5	16.7	0.010
10×2.5	5	18.7	0.009	12×2.5	5	19.7	0.009
14×0.5	5	14.2	0.013	16×0.5	5	14.8	0.013
14×0.75	5	14.9	0.011	16×0.75	5	15.5	0.011
14×1.0	5	15.5	0.010	16×1.0	5	16.2	0.010
14×1.5	5	17.4	0.010	16×1.5	5	18.2	0.010
14×2.5	5	20.5	0.009	16×2.5	5	21.5	0.009
19×0.5	5	15.4	0.013	24×0.5	5	17.5	0.013
19×0.75	5	16.2	0.011	24×0.75	5	18.4	0.011
19×1.0	5	16.9	0.010	24×1.0	5	19.6	0.010
19×1.5	5	19.4	0.010	24×1.5	5	22.2	0.010
19×2.5	5	22.5	0.009	24×2.5	5	26.2	0.009
27×0.5	5	17.8	0.013	30×0.5	5	18.3	0.013
27×0.75	5	18.7	0.011	30×0.75	5	19.7	0.011
27×1.0	5	20.0	0.010	30×1.0	5	20.6	0.010
27×1.5	5	22.6	0.010	30×1.5	5	23.3	0.010
27×2.5	5	26.7	0.009	30×2.5	5	27.6	0.009
37×0.5	5	19.9	0.013	44×0.5	5	22.0	0.013
37×0.75	5	21.0	0.011	44×0.75	5	23.2	0.011
37×1.0	5	22.0	0.010	44×1.0	5	24.6	0.010
37×1.5	5	25.2	0.010	44×1.5	5	28.6	0.010
37×2.5	5	30.2	0.009	44×2.5	5	34.0	0.009
48×0.5	5	22.3	0.013	52×0.5	5	22.9	0.013
48×0.75	5	23.5	0.011	52×0.75	5	24.1	0.011
48×1.0	5	24.9	0.010	52×1.0	5	25.5	0.010
48×1.5	5	29.0	0.010	61×0.5	5	24.1	0.013
48×2.5	5	34.5	0.009	61×0.75	5	25.6	0.011
/	/	/	/	61×1.0	5	26.9	0.010

# 硅橡胶（阻燃）控制电缆

## Silicon Rubber(flame retardant)Control Cable

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。

### 一、生产执行标准

TICW5-2009.

### 二、使用条件

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。

### 三、型号名称及主要使用范围如表1

Table 1

型号 Type	名称 Description	主要使用范围 Application occasion
KGG KGGR	铜芯硅橡胶绝缘硅橡胶护套控制（软）电缆 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。 For laying indoors, in cable trench, in conduit, with demand on mobility and softness
KGGP KGGRP	铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制（软）电缆 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。 To be fixedly laid indoor, cable trench or pipe, in the environment with demand on softness and shielding
KGGP2	铜芯硅橡胶绝缘硅橡胶护套铜带屏蔽控制电缆 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。 To be fixed laid indoor, cable trench or pipe with demand on shielding
KGG22	铜芯硅橡胶绝缘硅橡胶护套钢带铠装控制电缆 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。 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”。

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 field of steel & iron, refinery, power plant, coking plant, aviation, metallurgy, machinery, petrochemical industry etc. It has good feature of high temperature resistance, flame retardance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance and weather resistance.

### Executive standard

TICW5-2009.

### 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.

Type, description and main application occasion listed in the following table 1.



#### 四、电缆规格如下表所示

Cable specification as follows

型号 Type	额定电压 V Rated voltage	导体标称截面 mm <sup>2</sup> 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 KGGR、KGGRP	450/750	2~61			2~48		2~14	2~10	
KGGP2		4~61							
KGG22		7~61		4~61					

注：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、61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 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52,61. We also produce cable with any number of cores below 61 cores.

#### 五、技术参数

- 1、成品电缆绝缘线芯的绝缘电阻：换算到电缆长度为1km、温度为20℃时应不小于50MΩ；
- 2、成品电缆应经受工频交流3000V/5min电压试验。绝缘不击穿。

#### Technical Parameter

1. Insulated resistance of finished cable insulated conductor will be no less than 50MΩ under the condition that cable length is 1km and temperature is 20℃.
2. Finished cable shall bear AC voltage test of 3000V under power frequency for 5 minutes without puncture of insulation.

#### 六、交货要求

- 允许根据双方协议长度交货；  
长度计量误差不超过±0.5%。

#### Delivery Length

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

# 低烟低卤阻燃控制电缆

## Control Cable with Low smoke, Low halogen and Flame retardant

本产品适用于额定电压450/750V及以下有低烟、低卤阻燃要求作为控制监控回路等场合使用。

It is used for supervising and controlling return circuit of rated voltage 450/750V or lower with demand on low smoke, low halogen and flame retardance.

### 一、生产执行标准

采用企业标准及参照GB9330-2008。

### Executive standard

According to Enterprise standard and GB9330-2008 standard.

### 二、使用特性

1、额定电压:U0/U为450/750V ;  
2、电缆长期允许工作温度70℃ ;  
3、电缆敷设温度应不低于0℃ ,推荐弯曲半径 :有铠装和铜带屏蔽结构的电缆 :其弯曲半径不小于电缆外径的12倍 ;  
其它结构的电缆 :其弯曲半径不小于电缆外径的6倍。

### Operational performance

1.Rated voltage: U0/U for 450/750V.  
2.Long-term working temperature allowed by cable is 70°C.  
3.Ambient temperature for installing cable shall be no lower than 0°C.Recommended bending radius:It shall be no less than 12 times that of cable O.D for armored cable with copper tape shielding structure and 6 times that of cable O.D for cable with other structure.

### 三、电缆的型号名称

1、电缆型号名称如表1 :

### Type and Description

Type and Description in table 1

Table 1

型号 Type	名称 Description
DDZ -KVV	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套控制电缆 Control cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath
DDZ -KVVP	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套铜丝编织屏蔽控制电缆 Control cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath, copper
DDZ -KVVR	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套控制软电缆 Control soft cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath
DDZ -KVVRP	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套铜丝编织屏蔽控制软电缆 Control flexible cable cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath, copper
DDZ -KVVP2	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套铜带绕包屏蔽控制电缆 Control cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath, Copper wire wrapped shielding
DDZ -KVVP22	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套钢带铠装控制电缆 Control cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath, steel tape armoring
DDZ -KVVP32	铜芯低烟低卤阻燃型聚氯乙烯绝缘、护套钢丝铠装控制电缆 Control cable with Cu core, low smoke & halogen, flame retardant, PVC insulation and sheath, steel wire armor

注 :型号中 'DDZ' 表示低烟低卤阻燃型。

Remark: 'DDZ' means low smoke & halogen, flame retardant

#### 2、主要名词术语解释

低烟 :在规定试验条件下 ,试样受热分解或燃烧释放出的烟比较少 ,符合规定的指标特性。

低卤 :在规定试验条件下 ,试样燃烧时放出的卤化氢气体的含量比较少 ,符合规定指标的特性。

阻燃 :在一定的试验条件下 ,试样被燃烧 ,在撤去火源后 ,火焰的蔓延仅在规定的范围内 ,残焰或残灼在规定的时间内能自行熄灭的特性。

#### Explanation of Main Noun Term

Low smoke: Cable sample discharges little smoke when be heated or be burn under stipulated test condition, meeting the requirement of stipulated target.

Low halogen: Under stipulated test condition, the amount of hydrogen halide gas released during the sample combustion is very small, which meeting the requirement of stipulated target.

Flame retardant: under stipulated testing conditions, the tested sample is fired. After removing from source, the spreads flame is within the prescribed limits, remnant flame will go out on itself within stipulated time.

#### 四、电缆规格范围如

#### Specification Scope

型号 Type	额定电压 V Rated voltage	导体标称截面 mm <sup>2</sup> Nominal cross section of conductor area							
		0.5	0.75	1.0	1.5	2.5	4	6	10
		芯数 Core number							
DDZ-KVV DDZ-KVVP	450/750	2~61				2~37		2~14	
DDZ-KVVP2 DDZ-KVVP22 DDZ-KVVP32		4~61				2~37			
DDZ-KVVR DDZ-KVVRP		2~61				2~37			

#### 五、主要技术指标

#### Main Technical Indices

- 20°C时导体直流电阻值应符合GB/T3956标准要求；
- 成品电缆应经受交流3000V/5min电压试验。

- Conductor DC resistance value at 20 °C shall meet requirements of GB/T3956 standard.
- The finished cable shall bear A.C. voltage test of 3000V for 5min.

标称截面 mm <sup>2</sup> Nominal cross section area	导体结构根数/直径 mm Number of conductor/diameter	20°C导体直流电阻(Ω/km) Conductor DC resistance at 20°C		耐电压强度 Voltage withstanding stress
		不镀锡 Non tinned	镀锡 Tinned	
0.5	1/0.8	36.0	36.7	3kV/5min绝缘无击穿 Insulation without puncture
	7/0.30	36.0	36.7	
	16/0.20	39.0	40.1	
0.75	1/0.97	24.5	24.8	
	7/0.37	24.5	24.8	
	24/0.20	26.0	26.7	
1.0	1/1.13	18.1	18.2	
	7/0.43	18.1	18.2	
	32/0.20	19.5	20.0	
1.5	1/1.38	12.1	12.2	
	7/0.52	12.1	12.2	
	30/0.25	13.3	13.7	
2.5	1/1.78	7.41	7.56	
	7/0.68	7.41	7.56	
	49/0.25	7.98	8.21	
4	1/2.25	4.61	4.70	
	7/0.85	4.61	4.70	
	56/0.30	4.95	5.09	
6	1/2.76	3.08	3.11	
	7/1.04	3.08	3.11	
	84/0.30	3.30	3.39	
10	7/1.35	1.83	1.84	

- 电缆的外形尺寸参照聚氯乙烯绝缘和护套控制电缆。

External Dimension of Cable Please refer to control cable with PVC insulation and sheath.

#### 六、交货长度

#### Delivery length

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%。

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

# 氟塑料绝缘耐高温控制电缆

## High-temperature resistant 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.

### Executive standard

TICW3-2009.

### 二、使用特性

- 1、交流额定电压：U0/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-20℃；
- 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

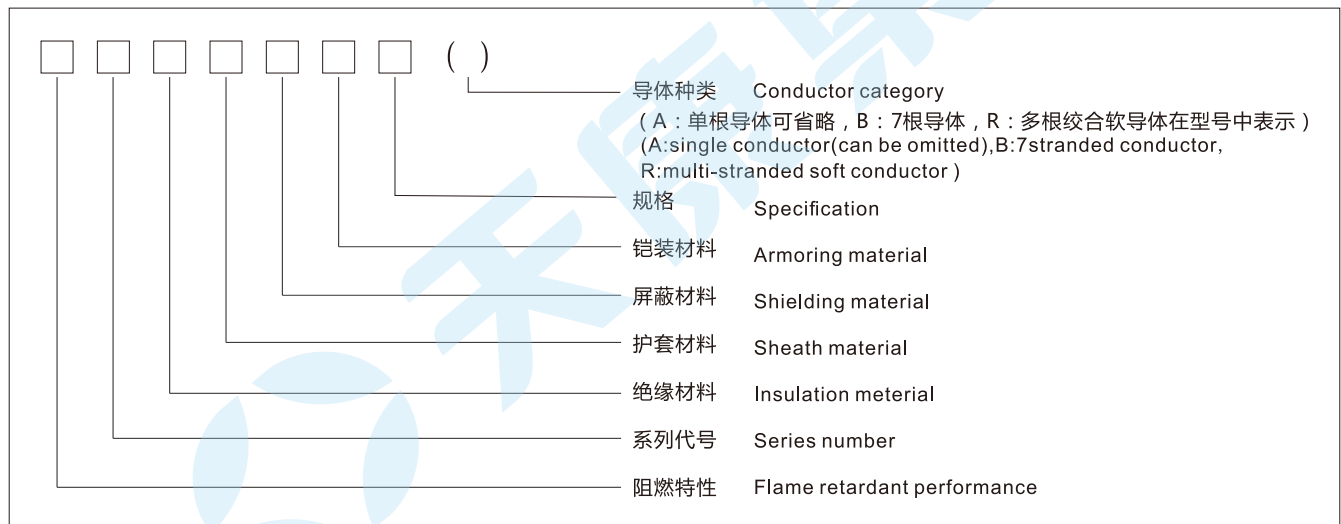
- 1.A.C. rated voltage U0/U: 450/750V.
- 2.Long-term working temperature of cable conductor : Temperature of fluoroplastics insulation is 200°C.
- 3.Temperature for installing cable is no lower than: -20 °C for cable with silicon rubber sheath.-20 °C for cable with fluoroplastic sheath.
- 4.Bending radius allowed by cable:It is no less than 8 times that of cable OD for cable with unarmored.It is no less than 15 times that of cable OD for cable with armored layer or copper tape shielding.

### 三、电缆型号及名称

#### 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 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 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 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 Copper wire braid shield soft control cable with fluoroplastic insulation and sheath
KFG	氟塑料绝缘硅橡胶护套控制电缆 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 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 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 Control soft cable with fluoroplastic insulation,silicon rubber sheath,copper wire braided shielding

## 四、代号名称及含义

## Codes Meaning

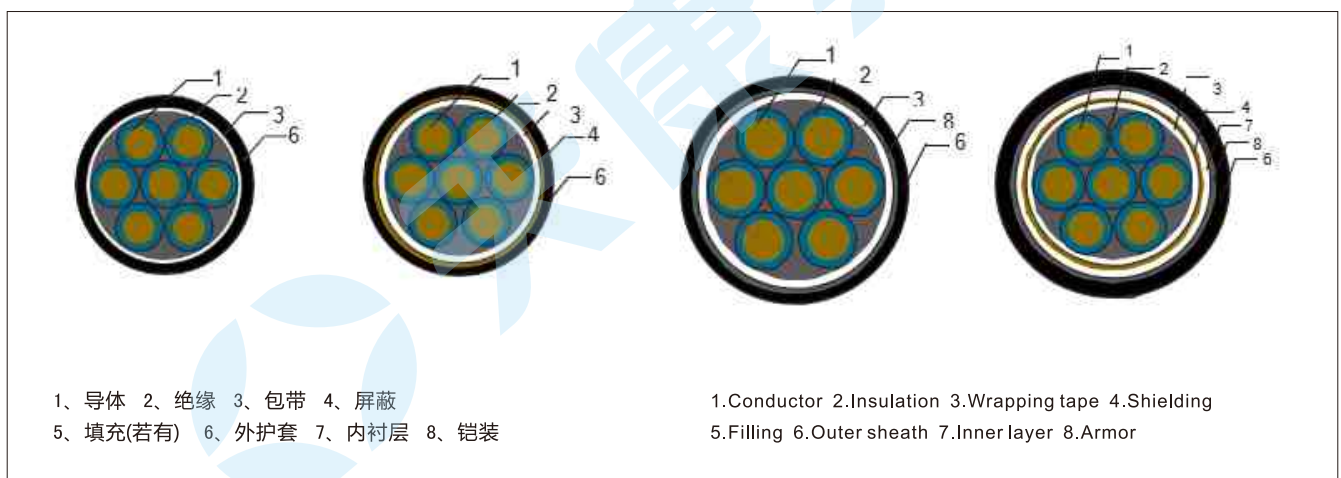
项目 Item	代号 Code	说明 Description
阻燃特性 Flame-retarding characteristics	ZRA/ZA	A类阻燃 Flame retardance of category A
	ZRB/ZB	B类阻燃 Flame retardance of category B
	ZRC/ZC	C类阻燃 Flame retardance of category C
系列代号 Series number	K	控制电缆 Control cable
绝缘材料 Insulation material	F	聚全氟乙丙烯 FEP
护套材料 Sheath material	F	聚全氟乙丙烯 FEP
屏蔽材料 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
铠装材料 Armoring material	92	细钢丝编织铠装 Fine steel wire 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、电缆的结构图

## The figure of cable structure



## 六、电缆的规格如下表所示

Specification of Cable in Following Table

型号 Type	额定电压 V Rated voltage	导体标称截面 mm <sup>2</sup> 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 KFGP,KFFP2	450/750	2~19				2~12			
KFFP,KFGP,FFRP KFGR,KFFR		2~19				-			
KFF92		-	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.							

## 七、主要技术指标

Main Technical Indices

标称截面 mm <sup>2</sup> Nominal cross section area	导体结构根数/直径 mm Number of conductor/diameter	20°C导体直流电阻(Ω/km) Conductor DC resistance at 20°C		耐电压强度 Voltage withstanding stress
		不镀锡 Non tinned	镀锡 Tinned	
0.5	1/0.8	36.0	36.7	3kV/5min绝缘无击穿 Insulation without puncture
	7/0.30	36.0	36.7	
	16/0.20	39.0	40.1	
0.75	1/0.97	24.5	24.8	
	7/0.37	24.5	24.8	
	24/0.20	26.0	26.7	
1.0	1/1.13	18.1	18.2	
	7/0.43	18.1	18.2	
	32/0.20	19.5	20.0	
1.5	1/1.38	12.1	12.2	
	7/0.52	12.1	12.2	
	30/0.25	13.3	13.7	
2.5	1/1.78	7.41	7.56	
	7/0.68	7.41	7.56	
	19/0.41	7.41	7.56	
	49/0.25	7.98	8.21	
4	1/2.25	4.61	4.70	
	7/0.68	4.61	4.70	
	19/0.52	4.61	4.70	
	56/0.30	4.95	5.09	
6	1/2.76	3.08	3.11	
	7/1.04	3.08	3.11	
	19/0.64	3.08	3.11	
	84/0.30	3.30	3.39	
10	7/1.35	1.83	1.84	

## 八、常用规格结构尺寸及参考重量如下表

The usual specification structure size and reference weight are shown in the table below.

Table 1 KFF、KFFP、KFFP2

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross	线芯结构(根数/直径) mm Core structure (No./Diameter)	最大外径 mm Max. outer diameter			参考重量kg/km Reference weight		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
2×0.5	1/0.80	4.5	5.4	5.0	35	51	69
2×0.75	1/0.97	4.9	5.8	5.4	45	63	84
2×1.0	1/1.13	5.2	6.1	5.7	52	72	95
2×1.5	1/1.38	5.8	6.7	6.3	65	86	111
2×2.5	1/1.78	6.5	7.4	7	92	118	151
2×4	1/2.25	7.8	8.7	8.3	142	165	175
2×6	1/2.76	8.9	9.8	9.4	211	245	279
3×0.5	1/0.80	4.7	5.6	5.2	44	62	80
3×0.75	1/0.97	5.2	6.1	5.7	57	77	99
3×1.0	1/1.13	5.3	6.2	5.8	69	89	114
3×1.5	1/1.38	6.1	7	6.6	88	110	141
3×2.5	1/1.78	7.1	8	7.6	126	153	191
3×4	1/2.25	8.5	9.4	9	215	255	278
4×0.5	1/0.80	5.1	6	5.6	54	73	94
4×0.75	1/0.97	5.7	6.6	6.2	70	92	118
4×1.0	1/1.13	6.2	7.1	6.7	86	109	140
4×1.5	1/1.38	6.8	7.7	7.3	111	136	174
4×2.5	1/1.78	7.7	8.6	8.2	157	187	234
4×4	1/2.25	9.6	10.5	10.1	270	295	311
5×0.5	1/0.80	5.9	6.8	6.4	64	85	110
5×0.75	1/0.97	6.4	7.3	6.9	85	108	138
5×1.0	1/1.13	6.8	7.7	7.3	103	129	165
5×1.5	1/1.38	7.5	8.4	8	134	162	207
5×2.5	1/1.78	8.8	9.7	9.3	191	224	280
5×4	1/2.25	10.6	11.5	12.1	325	362	395
7×0.5	1/0.80	6.3	7.3	6.8	82	106	136
7×0.75	1/0.97	7.1	8.1	7.6	110	136	174
7×1.0	1/1.13	7.4	8.4	7.9	135	164	208
7×1.5	1/1.38	8.2	9.2	8.7	177	208	260
7×2.5	1/1.78	9.5	10.5	10	262	300	369
7×4	1/2.25	11.6	12.6	12.1	415	458	485
8×0.5	1/0.80	6.8	7.8	7.3	97	122	150
8×0.75	1/0.97	7.5	8.5	8	128	157	192
8×1.0	1/1.13	7.9	8.9	8.4	157	189	229
8×1.5	1/1.38	8.7	9.7	9.2	207	241	284
8×2.5	1/1.78	10.3	11.3	10.8	314	367	426

Sequel table1 KFF、KFFP、KFFP2

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross	线芯结构(根数/直径) mm Core structure (No./Diameter)	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
10×0.5	1/0.80	7.9	8.9	8.4	113	153	188
10×0.75	1/0.97	8.7	9.7	9.2	152	186	227
10×1.0	1/1.13	9.3	10.3	9.8	202	241	292
10×1.5	1/1.38	10.3	11.3	10.8	263	316	373
10×2.5	1/1.78	12.1	13.1	12.6	378	442	513
12×0.5	1/0.80	8.2	9.2	8.7	130	161	198
12×0.75	1/0.97	9.0	10	9.5	177	212	259
12×1.0	1/1.13	9.6	10.6	10.1	233	274	332
12×1.5	1/1.38	10.8	11.8	11.3	305	360	425
12×2.5	1/1.78	12.5	13.5	13	442	508	589
14×0.5	1/0.80	8.8	9.8	9.3	147	179	220
14×0.75	1/0.97	9.9	10.9	10.4	215	255	311
14×1.0	1/1.13	11.5	12.6	12.3	265	319	386
14×1.5	1/1.38	11.6	12.7	12.4	350	409	483
14×2.5	1/1.78	13.3	14.4	14.1	533	613	675
16×0.5	1/0.80	9.5	10.6	10.3	165	199	245
16×0.75	1/0.97	10.4	11.5	11.2	241	282	344
16×1.0	1/1.13	11.0	12.1	11.8	298	355	430
16×1.5	1/1.38	13.0	14.3	13.8	394	457	539
16×2.5	1/1.78	15.1	16.4	16.0	604	694	764
19×0.5	1/0.80	10.3	11.4	11.1	205	243	296
19×0.75	1/0.97	11.3	12.4	12.1	279	336	407
19×1.0	1/1.13	12.7	14.0	14.0	345	407	480
19×1.5	1/1.38	13.7	15.2	14.8	459	525	609
19×2.5	1/1.78	16.0	17.2	16.8	707	813	894
24×0.5	1/0.80	11.7	12.8	12.5	255	312	378
24×0.75	1/0.97	13.2	14.4	14.0	348	414	489
24×1.0	1/1.13	15.2	16.4	16.0	423	486	535
24×1.5	1/1.38	15.9	17.1	17.0	586	674	741
24×2.5	1/1.78	19.1	20.6	20.1	901	1036	1139
27×0.5	1/0.80	12.2	13.7	13.2	280	339	410
27×0.75	1/0.97	13.4	14.9	14.5	384	452	533
27×1.0	1/1.13	14.5	16.5	16.0	469	539	593
27×1.5	1/1.38	16.3	18.0	17.5	651	749	824
27×2.5	1/1.78	19.5	21.0	20.5	1002	1153	1268
30×0.5	1/0.80	12.6	14.2	13.6	307	367	444
30×0.75	1/0.97	13.7	15.4	14.7	422	485	534
30×1.0	1/1.13	14.6	17.0	15.6	516	593	652
30×1.5	1/1.38	16.9	18.6	18.1	718	825	908
30×2.5	1/1.78	20.3	21.8	21.3	1106	1271	1399

Sequel table1 KFF、KFFP、KFFP2

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross	线芯结构(根数/直径) mm Core structure (No./Diameter)	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
33×0.5	1/0.80	13.1	14.6	14.1	333	396	479
33×0.75	1/0.97	14.2	15.5	15.0	460	529	582
33×1.0	1/1.13	15.2	16.7	16.2	563	648	712
33×1.5	1/1.38	17.8	19.3	18.8	797	917	1008
33×2.5	1/1.78	21.1	--	--	1209	--	--
37×0.5	1/0.80	13.6	15.2	14.6	268	434	525
37×0.75	1/0.97	14.8	16.3	15.8	510	587	645
37×1.0	1/1.13	15.9	17.6	17.1	625	719	791
37×1.5	1/1.38	18.5	20.0	19.5	886	1018	1120



37×2.5	1/1.78	22.0	--	--	1346	--	--
44×0.5	1/0.80	14.3	15.6	15.1	433	497	547
44×0.75	1/0.97	16.9	18.4	17.9	615	707	777
44×1.0	1/1.13	18.1	19.6	19.1	752	865	951
44×1.5	1/1.38	20.9	21.9	--	1047	1205	--
48×0.5	1/0.80	14.5	16.0	15.5	467	537	590
48×0.75	1/0.97	17.2	18.7	18.2	663	763	839
48×1.0	1/1.13	18.4	19.9	19.4	813	935	1028
48×1.5	1/1.38	21.3	--	--	1134	--	--
52×0.5	1/0.80	15.0	16.5	16.0	502	577	634
52×0.75	1/0.97	17.7	19.2	18.7	713	820	902
52×1.0	1/1.13	18.9	20.4	19.9	875	1006	1107
52×1.5	1/1.38	21.9	--	--	1222	--	--

Sequel table 2 KFFR、KFFRP、KFFRP2

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross	线芯结构(根数/直径) mm Core structure (No./Diameter)	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
2×0.5	16/0.20	5.1	6.3	5.7	38	55	74
2×0.75	24/0.20	5.9	7.1	6.5	50	68	92
2×1.0	32/0.20	6.3	7.5	6.9	58	79	104
2×1.5	30/0.25	6.7	7.9	7.3	72	94	121
2×2.5	49/0.25	8.5	9.7	9.1	104	132	169
3×0.5	16/0.20	5.4	6.6	6	48	66	85
3×0.75	24/0.20	6.4	7.6	7	64	86	111
3×1.0	32/0.20	6.8	8	7.4	76	98	125
3×1.5	30/0.25	7.3	8.5	7.9	97	121	155
3×2.5	49/0.25	8.9	10.1	9.5	144	173	216
4×0.5	16/0.20	5.9	7.1	6.5	59	79	102
4×0.75	24/0.20	7.0	8.2	7.6	80	102	131
4×1.0	32/0.20	7.6	8.8	8.2	96	121	155
4×1.5	30/0.25	8.1	9.3	8.7	123	149	191
4×2.5	49/0.25	9.8	11	10.4	181	213	266
5×0.5	16/0.20	6.4	7.6	7	69	91	117
5×0.75	24/0.20	7.7	8.9	8.3	96	121	155
5×1.0	32/0.20	8.4	9.6	9	116	143	183
5×1.5	30/0.25	8.9	10.1	9.5	149	178	228
5×2.5	49/0.25	10.6	11.8	11.2	219	255	319
7×0.5	16/0.20	7.2	8.4	7.8	90	115	147
7×0.75	24/0.20	8.5	9.7	9.1	125	153	196
7×1.0	32/0.20	9.1	10.3	9.7	151	182	233
7×1.5	30/0.25	9.7	10.9	10.3	197	230	288
7×2.5	49/0.25	11.8	13	12.4	303	343	422
8×0.5	16/0.20	7.9	9.1	8.5	105	133	164
8×0.75	24/0.20	9.2	10.4	9.8	145	176	215
8×1.0	32/0.20	9.9	11.1	10.5	177	210	254
8×1.5	30/0.25	10.6	11.8	11.2	231	267	315
8×2.5	49/0.25	12.8	14	13.4	262	418	485
10×0.5	16/0.20	9.1	10.3	9.7	124	156	192
10×0.75	24/0.20	10.8	12	11.4	173	210	256
10×1.0	32/0.20	11.6	12.8	12.2	227	269	325
10×1.5	30/0.25	12.4	13.6	13	294	350	413
10×2.5	49/0.25	15.4	16.6	16	438	507	588
12×0.5	16/0.20	9.4	10.6	10	142	172	212
12×0.75	24/0.20	11.2	12.4	11.8	200	238	290
12×1.0	32/0.20	12.0	13.2	12.6	261	304	368
12×1.5	30/0.25	12.8	14	13.4	340	398	470
12×2.5	49/0.25	16.0	17.2	16.6	512	584	677

Sequel table 2 KFFR、KFFRP、KFFRP2

芯数×标称截面 mm <sup>2</sup> Core No.*nominal cross	线芯结构(根数/直径) mm Core structure (No./Diameter)	最大外径 mm Max. outer diameter			参考重量kg/km Weight for reference		
		KFF	KFFP	KFFP2	KFF	KFFP	KFFP2
14×0.5	16/0.20	9.9	11.0	10.6	162	196	241
14×0.75	24/0.20	10.7	11.8	11.4	244	286	349
14×1.0	32/0.20	12.8	13.9	13.5	298	355	430
14×1.5	30/0.25	13.7	14.8	14.4	390	452	533
14×2.5	49/0.25	16.3	17.4	17	597	687	756
16×0.5	16/0.20	10.4	11.5	11.1	181	217	267
16×0.75	24/0.20	12.4	13.5	13.1	274	318	388
16×1.0	32/0.20	13.5	14.6	14.2	335	396	479
16×1.5	30/0.25	14.5	15.6	15.2	440	506	597
16×2.5	49/0.25	17.2	18.3	17.9	625	719	791
19×0.5	16/0.20	11.0	12.1	11.7	225	265	323
19×0.75	24/0.20	13.3	14.4	14	318	385	466
19×1.0	32/0.20	14.3	15.4	15	389	454	536
19×1.5	30/0.25	14.8	15.9	15.5	507	583	641
19×2.5	49/0.25	18.3	19.4	19	792	850	1002
24×0.5	16/0.20	13.1	14.2	13.8	281	341	413
24×0.75	24/0.20	14.4	15.5	15.1	388	446	491
24×1.0	32/0.20	15.3	16.4	16	456	524	577
24×1.5	30/0.25	17.8	18.9	18.5	635	730	803
24×2.5	49/0.25	22.3	23.4	23	1009	--	--
27×0.5	16/0.20	13.4	14.5	14.1	308	370	448
27×0.75	24/0.20	14.4	15.5	15.1	429	494	543
27×1.0	32/0.20	15.3	16.4	16	505	581	639
27×1.5	30/0.25	17.8	18.9	18.5	705	811	892
27×2.5	49/0.25	22.3	23.4	23	1122	--	--
30×0.5	16/0.20	13.9	15	14.6	338	402	486
30×0.75	24/0.20	15.0	16.1	15.7	472	543	597
30×1.0	32/0.20	15.9	17	16.6	556	639	703
30×1.5	30/0.25	18.5	19.6	19.2	777	894	983
33×0.5	16/0.20	13.9	15	14.6	366	433	524
33×0.75	24/0.20	15.6	16.7	16.3	515	592	651
33×1.0	32/0.20	16.6	17.7	17.3	607	698	765
33×1.5	30/0.25	19.5	20.6	20.2	860	995	1101
37×0.5	16/0.20	14.5	15.6	15.2	420	480	530
37×0.75	24/0.20	16.2	17.3	16.9	568	650	720
37×1.0	32/0.20	17.3	18.4	18	670	775	855
37×1.5	30/0.25	20.3	21.4	21	965	1150	1215
44×0.5	16/0.20	16.3	17.4	17	495	570	625
44×0.75	24/0.20	18.5	19.6	19.2	685	785	870
44×1.0	32/0.20	19.7	20.8	20.4	810	935	1050
48×0.5	16/0.20	16.8	17.9	17.5	536	616	678
48×0.75	24/0.20	18.9	20.0	19.6	742	854	945
48×1.0	32/0.20	20.6	21.7	21.3	880	1108	1172
52×0.5	16/0.20	17.5	18.6	18.2	582	665	735
52×0.75	24/0.20	19.5	20.6	20.2	799	925	1015
52×1.0	32/0.20	20.8	21.9	21.5	945	1100	1205

**九、交货长度**

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%。

**Delivery length**

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