

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。

一、生产执行标准

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。

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

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.

Executive standard

GB/T9330-2020.

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.

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 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箔/铝塑复合带屏蔽控制电缆 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 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 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 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 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 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 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 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 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 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 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 mm ² 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mm ² 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mm ² 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 combustile 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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 mm ² 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