



# people electric

电线电缆选型手册

Cables model selection handbook

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creates the eternal history  
of her own.

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## 电缆型号、名称、规格及 执行标准总目录

Type Description of cable

### 电缆的型号、名称规格及执行标准 Type Description of cable

型号 Type	名称 Description	额定电压 Rating(kV)	芯数 Core number	标称截面 Normal area of conductor (mm <sup>2</sup> )	标行标准 Executive standard
YJV YJLV NHZR-YJV ZR-YJLV	耐火、阻燃、非阻燃交联聚乙烯绝缘聚氯乙烯护套电力 电缆 Fire-resistant, flame retardant or non flame retardant XLPE insulated PVC sheathed power cable	0.6/1 0.6/1 6/10.8.7/15 26/35	1,2 3,4,5,3+1 3+2,4+1 1,3 1,3	1.5 ~ 800 2.5 ~ 300 25 ~ 300 50 ~ 630	GB/T12706.1.2.3-2002
YJV <sub>22</sub> YJLV <sub>22</sub> NHZR-YJV <sub>22</sub> ZR-YJLV <sub>22</sub>	耐火、阻燃、非阻燃交联聚乙烯绝缘钢带铠装聚乙烯 护套电力电缆 Fire-resistant, flame retardant or non flame retardant XLPE insulated PVC sheathed internal steel tape armoured power cable	0.6/1 0.6/1 6/10.8.7/15 26/35	1,2 3,4,5,3+1 3+2,4+1 1,3 1,3	1.5 ~ 800 4 ~ 300 25 ~ 300 50 ~ 630	GB/T12706.1.2.3-2002
YJV <sub>32</sub> YJLV <sub>32</sub> ZR-YJV <sub>32</sub> ZR-YJLV <sub>32</sub>	阻燃、非阻燃交联聚乙烯绝缘钢丝铠装聚乙烯护套电力 电缆 Flame resistant or non flame retardant XLPE insulated PVC sheathed fine steel wire armoured power cable	0.6/1 0.6/1 6/10.8.7/15 26/35	1,2 3,3+1 1,3 1,3	10 ~ 300 16 ~ 300 25 ~ 300 70 ~ 630	GB/T12706.1.2.3-2002
YJV <sub>42</sub> YJLV <sub>42</sub> ZR-YJV <sub>42</sub> ZR-YJLV <sub>42</sub>	阻燃、非阻燃交联聚乙烯绝缘钢丝铠装聚乙烯护套电力 电缆 Flame resistant or non flame retardant XLPE insulated PVC sheathed thick steel wire armoured power cable	0.6/1 0.6/1 6/10.8.7/15 26/35	1,2 3,3+1 1,3 1,3	10 ~ 300 16 ~ 300 25 ~ 300 95 ~ 630	GB/T12706.1.2.3-2002
VV VLV NHZR-VV ZR-VLV	耐火、阻燃、非阻燃聚氯乙烯绝缘聚氯乙烯护套电力 电缆 Fire-resistant, flame retardant or non flame retardant PVC insulated and sheathed power cable	0.6/1 3.6/6 0.6/1 0.6/1 3.6/6	1 2 3 3,4,5,3+1 3+2,4+1 3	1.5 ~ 800 10 ~ 300 1.5 ~ 150 2.5 ~ 300 10 ~ 300	GB/T12706.1-2002
VV <sub>22</sub> VLV <sub>22</sub> NHZR-VV <sub>22</sub> ZR-VLV <sub>22</sub>	耐火、阻燃、非阻燃聚氯乙烯绝缘钢带铠装聚乙烯护 套电力电缆 Fire-resistant, flame retardant or non flame retardant steel tape armoured power cable	0.6/1 3.6/6 0.6/1 3.6/6	1 2 3 3,4,5,3+1 3+2,4+1 3	10 ~ 800 10 ~ 300 4 ~ 150 4 ~ 300 10 ~ 300	GB/T12706.1-2002
VV <sub>32</sub> VLV <sub>32</sub> ZR-VV <sub>32</sub> ZR-VLV <sub>32</sub>	阻燃、非阻燃交联聚乙烯绝缘钢丝铠装聚乙烯护套 电力电缆 Flame resistant or non flame retardant XLPE insulated PVC sheathed fine steel wire armoured power cable	0.6/1 3.6/6 0.6/1 3.6/6	1 3 3,3+1 3	10 ~ 300 10 ~ 300 16 ~ 300 16 ~ 300	GB/T12706.1-2002
VV <sub>42</sub> VLV <sub>42</sub> ZR-VV <sub>42</sub> ZR-VLV <sub>42</sub>	阻燃、非阻燃交联聚乙烯绝缘粗钢丝铠装聚乙烯护 套电力电缆 Flame resistant or non flame retardant XLPE insulated PVC sheathed thick steel wire armoured power cable	0.6/1 3.6/6 0.6/1 3.6/6	1 3 3,3+1 3	10 ~ 300 10 ~ 300 16 ~ 300 16 ~ 300	GB/T12706.1-2002
KVV NHZR-KVV	耐火、阻燃、非阻燃聚氯乙烯绝缘聚氯乙烯护套控制 电缆 Fire-resistant, flame retardant or non flame retardant PVC insulated and sheathed cable	0.45/0.75	2 ~ 61 2 ~ 14 2 ~ 10	0.75 ~ 2.5 4.6 10	GB9330.2-88

注：单芯铠装电缆仅用于直流系统，若用交流系统，应采用非磁性材料的铠装层或采取隔磁措施。

Single-wicked, PVC sheathed electric cables only can be used in D.C. If it will be used in A.C., it must have non-magnetic material or magnetism-partitioned measure.



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### Type Description of cable

型号 Type	名称 Description	额定电压 Rating(kV)	芯数 Core number	标称截面 area of conductor (mm <sup>2</sup> )	标行标准 Executive standard
KVVR ZR-KVVR	阻燃、非阻燃聚氯乙烯绝缘聚氯乙烯护套控制软缆 Resistant,relardant or non flame relardant PVC insulated and sheathed cable	0.45/0.75	2~61	0.75~2.5	GB9330.2-88
KVV <sub>22</sub> NHZR-KVV <sub>22</sub>	耐火、阻燃、非阻燃聚氯乙烯绝缘钢带铠装聚氯乙烯护套 控制电缆 Fire-resistant,flame relardant or non flame relardant PVC insulated and sheathed,steel tape armoured control cable	0.45/0.75	2~61 2~61 2~14 2~10	0.75~2.5 2.5 4.6 10	GB9330.2-88
KWP NHZR-KWP <sub>2</sub> NHZR-KWP <sub>2-22</sub>	耐火、阻燃、非阻燃聚氯乙烯绝缘聚氯乙烯护套编织、 铜带屏蔽铠装、非铠装控制电缆 Fire-resistant,flame relardant or non,flame relardant PVC insulated and sheathed,steel tape armoured control cable	0.45/0.75	2~61 2~61 2~14	0.75~2.5 2.5 4.6	GB9330.2-88
NHZR-KWVRP NHZR-KWVRP	耐火、阻燃、非阻燃聚氯乙烯绝缘聚氯乙烯护套编织屏蔽 软控制电缆 Fire-resistant,flame relardant or non flame relardant PVC insulated and sheathed,flamere lardant,flexible control cable with,shield	0.45/0.75	2~61	0.75~6	GB9330.2-88
JKYJJKLYJ JKYJKLY JKVJKLV JKYJQJKLYJQ JKLGYJKLGYJQ	交联、非交联聚乙烯、聚氯乙烯绝缘架空缆 Ariel and NO ariel XLPE,XPE insulted airset cable	0.6/1 10 0.6/1 10	1 1,3 3+K	10~240 10~240 10~300	GB12527-90 GB14049-93
LJ	铝绞线 Al twist cable		1	16~630	GB/T1179-1999
LGJ	钢芯铝绞线 Strengthen tope steel core Al twist cable		1	50~400 10~400	GB/T1179-1999
227IEC01、05 (BV) NHZR-BV BLV 227IEC07 (BV-90)	耐火、阻燃、非阻燃铜芯、铝芯(耐热 90℃)聚氯乙烯 绝缘无护套电缆 Fire-resistant, flame relardant or non flame relardant copper-core, aluminium-core (beared 90℃)PVC insulated electric cables and wires	0.3/0.5 0.45/0.75	1	0.5~1.0 1.5~400 2.5~400 0.5~2.5	GB5023-1997 JB8734-1998
BVR ZR-BVR	阻燃、非阻燃铜芯聚氯乙烯绝缘软电缆(电线) Resistant,flame relardant or non flame relardant copper-core, soft PVC insulated electric cables and wires	0.45/0.75	1	2.5~70	GB/T1179-1998
227IEC10 (BVV) NHZR-BVV BLVV	耐火、阻燃、非阻燃铜芯、铝芯轻型聚氯乙烯绝缘聚 氯乙烯护套圆型电缆 Fire-resistant,flame relardant or non flame relardant copper-core,aluminium-core PVC insulated cylinder electric cables	0.3/0.5	1 2~5 1	0.75~1.0 1.5~35 2.5~10	JB/8734-1997 JB8734-1998
BVVB NHZR-BVVB BLVVB	耐火、阻燃、非阻燃铜芯、铝芯聚氯乙烯绝缘聚乙烯 护套扁型电缆(电线) Fire-resistant, flame relardant or non flame relardant copper-core, aluminium-core PVCinsulated flat electric cables and wires	0.3/0.5	2,3 2,3	0.75~10 2.5~10	JB8734-1998

注：\* 为带承载的中性导体，根据要求，任选其中截面与主线搭配。

With carrying neutral conductor in\* abording to require prent, please choose every one of normal area main track.



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227IEC06(RV) 227IEC02(RV) ZR-RV 227IEC08(RV-90)	阻燃、非阻燃铜芯、铝芯(耐热90℃)聚氯乙烯绝缘 无护套电缆(电线) Non-flame retardant copper-core(bearred 90℃) PVC insulated soft connected electric wires	0.3/0.5 0.45/0.75	1 1	0.5 ~ 1 1.5 ~ 240	GB5023-1997
227IEC42(RVB) RVS	铜芯聚氯乙烯绝缘扁型、绞型无护套软电线 Copper-core PVC insulated flat, twist soft connected electric wires	0.3/0.3	2	0.5 ~ 0.75	GB5023-1997 JB8734-1998
227IEC52(RVV) 227IEC53(RVV) RVVB ZR-RVV, RVVB	阻燃、非阻燃铜芯聚氯乙烯绝缘聚氯乙烯护套圆型、 平型连接软电线 Non-flame retardant copper-core PVC insulated cylinder, flat soft connected electric wires	0.3/0.3 0.3/0.5	2 ~ 3 2 ~ 5	0.5 ~ 0.75 0.75 ~ 2.5	JB8734-1998
AV ZR-AV AV-90	阻燃、非阻燃铜芯(耐热90℃)聚氯乙烯绝缘安装电线 Flame retardant or non flame retardant copper-core (bearred 90℃)PCV insulated installable electric wires	0.3/0.3	1	0.08 ~ 0.4	JB8734-1998
AVR ZR-AVR AV-90	阻燃、非阻燃铜芯(耐热90℃)聚氯乙烯绝缘安装软 电线 Flame retardant or non flame retardant copper-core (bearred 90℃)PCV insulated soft installable electric wires	0.3/0.3	1	0.08 ~ 0.4	JB8734-1998
AVRB AVRS	铜芯聚氯乙烯绝缘平型、绞型安装软电线 Copper-core PVC insulated flat, twist soft installable electric wires	0.3/0.3	2	0.12 ~ 0.4 0.08 ~ 0.4	JB8734-1998
AVVR	铜芯聚氯乙烯绝缘聚氯乙烯护套安装软电缆(电线) Copper-core PVC insulated flat, twist soft installable electric wires	0.3 ~ 0.3	3 ~ 24	0.08 ~ 0.4	JB8734-1998
AVP ZR-AVP AVP-90	阻燃、非阻燃铜芯(耐热90℃)聚氯乙烯绝缘屏蔽电线 Flame retardant or non flame retardant copper-core (bearred 90℃) PVC insulated shield electric wires	0.3/0.3	1	0.08 ~ 0.4	JB8734-1998
RVP RVP-90	铜芯(耐热90℃)聚氯乙烯绝缘屏蔽软电线 Copper-core(bearred 90℃)PVC insulated soft shield electric wires	0.3/0.3	1 2	0.08 ~ 2.5 0.08 ~ 1.5	JB8734-1998
RWVP RWP1	铜芯聚氯乙烯绝缘编织屏蔽、缠绕屏蔽、聚氯乙烯 护套软电缆(电线) Copper-core PVC insulated shield, twist shield soft electric cables and wires	0.3/0.3	1 2 3 4 ~ 24	0.08 ~ 2.5 0.08 ~ 1.5 0.12 ~ 1.5 0.12 ~ 0.4	JB8734-1998
RFB RFS	铜心丁腈聚氯乙烯平型、绞型软电线 Copper-core CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CN PVC flat, twist soft electric wires	0.25	2	0.2 ~ 6	JB1170-75
JBF	铜芯丁腈聚氯乙烯复合物绝缘引接线 Copper-core CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CN PVC insulated connected wires	0.5	1	0.03 ~ 50	JB1138-76
QVR	聚氯乙烯绝缘低压电线 PVC insulated low-tension electric wires	0.25	1	0.5 ~ 70	JB677-71



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## 电缆型号、名称、规格及 执行标准总目录

### Type Description of cable

型号 Type	名称 Description	额定电压 Rating(kV)	芯数 Core number	标称截面 Normal area of conductor (mm <sup>2</sup> )	标行标准 Executive standard
QFR	聚氯乙烯—丁腈复合物绝缘低压电线 PVC CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CN insulated low-tension electric wires	0.25	1	0.5 ~ 6	JB677-71
DJYVP DJYVP <sub>22</sub>	电子计算机用对绞式聚乙烯绝缘聚氯乙烯护套铜丝编织屏蔽铠装、非铠装控制电缆 Computer using, double twist PE insulated, copper wire woven shield PVC sheathed and non PVC sheathed controlling electric cables	0.3/0.3	1 ~ 48	0.5 ~ 1.5	企业标准 Enterprises standard
DJYVP DJYVP <sub>22</sub>	铜芯聚乙烯绝缘单元屏蔽, 聚氯乙烯护套钢带铠装、非铠装计算机控制电缆 Copper-core PE insulated partly shield, steel-band PVC sheathed and non PVC sheathed computer controlling electric cables	0.3/0.3	1 ~ 24	0.5 ~ 1.5	企业标准 Enterprises standard
JVSP JVSP	聚氯乙烯、聚乙烯绝缘对绞屏蔽计算机电缆 PVC PE, insulated double-twist shield computer electric cables	0.3/0.3	2 ~ 24 2 ~ 48	0.5 ~ 1.5	企业标准 Enterprises standard
DJYVP <sub>2</sub> DJYYP <sub>2</sub> DJYVP <sub>2</sub> DJYYP <sub>2</sub> DJYVP <sub>2</sub> VP <sub>2</sub> DJYVP <sub>2</sub> YP <sub>2</sub>	铜芯聚乙烯绝缘对绞铜带屏蔽、非屏蔽, 铜带总屏蔽、非总屏蔽聚氯乙烯、聚乙烯护套电子计算机电缆 Copper-core PE insulated double-twist Copper-wire shield, non-shield, PVC PE sheathed computer electric cables	0.3/0.3	1 ~ 24	0.5 ~ 1.5	企业标准 Enterprises standard
DJYVP <sub>2</sub> V <sub>22</sub> DJYVP <sub>2</sub> Y <sub>23</sub> DJYVP <sub>3</sub> V <sub>22</sub> DJYVP <sub>3</sub> Y <sub>23</sub>	铜芯聚乙烯绝缘对绞铜带、铝箔 / 塑料薄膜复合带屏蔽, 聚氯乙烯、聚乙烯护套, 钢带铠装电子计算机电缆 Copper-core PE insulated double-twist Copper-wire aluminium foil or plastic film with shield, PVC or PE sheathed, copper-wire PVC sheathed computer electric cables	0.3/0.3	1 ~ 24	0.5 ~ 1.5	企业标准 Enterprises standard
DJYVP <sub>3</sub> V DJYVP <sub>3</sub> Y DJYVP <sub>3</sub> V DJYVP <sub>3</sub> Y DJYVP <sub>3</sub> VP <sub>3</sub> DJYVP <sub>3</sub> YP <sub>3</sub>	铜芯聚乙烯绝缘对绞铝箔 / 塑料薄膜复合带屏蔽、非屏蔽, 铝箔 / 塑料薄膜复合带总屏蔽、非总屏蔽聚氯乙烯、聚乙烯护套电子计算机电缆 Copper-core PE insulated double-twist aluminium foil or plastic film with shield or without shield, PVC or PE sheathed computer electric cables	0.3/0.3	1 ~ 24	0.5 ~ 1.5	企业标准 Enterprises standard
DJYVP <sub>3</sub> R DJYVP <sub>3</sub> VR DJYVP <sub>3</sub> VP <sub>3</sub> R	铜芯聚乙烯绝缘对绞铝箔 / 塑料薄膜复合带屏蔽、非屏蔽, 铝箔 / 塑料薄膜复合带总屏蔽、非总屏蔽、聚氯乙烯护套电子计算机电缆 Copper-core PE insulated double-twist aluminium foil or plastic film with shield or without shield, PVC sheathed soft computer electric cables	0.3/0.3	1 ~ 24	0.5 ~ 1.5	企业标准 Enterprises standard
NLV NLVW	农用直埋铝芯聚乙烯绝缘或护套电线 Agronomy lay in the ground AL core XLPE insulated or shelled cable	0.45/0.75	1	2.5 ~ 95	JB2171-77
NLYV NLYV-H NLYV-Y	农用直埋铝芯聚乙烯绝缘聚氯乙烯护套耐寒(H)防蚁(Y)电线 Agronomy lay in the ground AL core XPE insulated XLPE shelled resistance cold ant resistance cable	0.45/0.75	1	2.5 ~ 95	JB2171-77



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PVV PYV PVV <sub>22</sub>	聚氯乙烯或聚乙烯绝缘及聚氯乙烯护套信号电缆 XLPE or XPE insulated and XLPE sheathed message cable	0.25	2~61	1mm	企业标准 Enterprises standard
QGZF	汽车用阻尼芯聚氯乙烯-丁腈复合物护套高压点火线 Car usage resistance-neeel CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CN sheathed high voltage light fire cable	15	1	0.75	企业标准 Enterprises standard
SYV-75- 2~15	实芯聚乙烯绝缘聚氯乙烯护套同轴射频电缆 Core XPE insulated XLPE sheathed same axle same frecency cable	阻抗 Resistance 75 Ω	1		GB9023-92
HYA	铜芯实心聚乙烯绝缘防潮层聚乙烯护套市内通信电缆 Copper core wet-proof section she lited city-land message cable		10~1200对 10~1200 Double	直径(mm) Diameter (mm) 0.32~0.8	YD/T322-1996
HBGVV	铁芯聚氯乙烯通信线 Copper core XLPE message cable		1对 1Double	1.1	企业标准 Enterprises standard
HRVHRVB HPVV HUYY	聚氯乙烯绝缘和护套电话软(扁)线矿用电缆 XLPE insulated and sheilded telephone soft cableFactory using message cable		1对 1~5对 1 Double 1~5 Double	直径(mm) Diameter (mm) 0.5~0.8	企业标准 Enterprises standard
CW/DA (CJV)	聚氯乙烯或交联聚乙烯绝缘聚乙烯护套船用电力电缆DA 型 XLPE or arial XPE insulated XLPE sheathedship-usaqe power cable DA type	0.6/1	1~3 4~37	1~300 1~2.5	GB9331-88
CW80/DA(CJV)	聚氯乙烯或交联聚乙烯绝缘铜丝编织聚乙烯护套船用 电力电缆DA型 XLPE or arial XPE insulated copper thick wovenXLPE sheilded ship-usaqe power cable DA type	0.6/1	1~3 4~37	1~300 1~2.5	GB9331-88
CXE(R)	天然丁苯绝缘氯丁护套船用(软)电力电缆 Natural butadience styrene insulated chlorpren sheathed soft power cable for ships	0.6/1	2,3,4	1~300	GB9331-88
CXF80	天然丁苯绝缘氯丁护套裸钢丝编织铠装船用电缆 Natural butadience styrene insulated chlorpren sheathed steel thread knit armoured cable for ships	0.6/1	2,3,4	1~300	GB9331-88
CXV	汽车用阻尼芯聚氯乙烯-丁腈复合物护套高压点火线 Car usage resistance-neeel CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CN sheathed high voltage light fire cable	0.6/1	2,3,4	1~300	GB9331-88
YZYZW YC/CW	中型橡套软电缆 重型橡套软电缆 Middle type rubber-set soft cable Heavy type rubber-set soft cable	0.3/0.5 0.45/0.75	2~5 2~5	0.75~6 1.5~70	GB5013-1977 JB8735-1998
YH	电焊机电缆 Electric soldering machine cable	0.12	1	10~185	GB5013-1977
U	矿用软电缆 Mineral used soft cable	0.45/0.75	2~5	0.75~70	GB12972-91

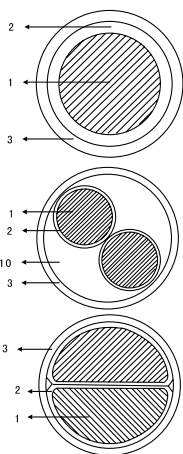
## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 21/35kV(26/35kV)及以下交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 21/35kV(26/35kV)

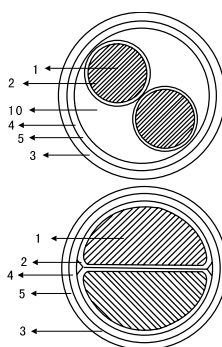
#### 电缆的型号、名称及适用范围 Type、designation and application

型号 Type		名称 Description	标行标准 Executive standard
铜Cu	铝Al		
YJV	YJLV	交联聚乙烯绝缘聚氯乙烯护套电力电缆 XLPE insulated PVC sheathed power cables	可敷设在室内、隧道及管道中。
YJY	YJLY	交联聚乙烯绝缘聚乙烯护套电力电缆 XLPE insulated PE sheathed power cables	For installation in the room, tunnels and conduits.
YJV22	YJLV22	交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulated steel tape armored PVC sheathed power cables	适宜埋地敷设, 不适宜管道内敷设。
YJV23	YJLV23	交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 XLPE insulated steel tape armored PE sheathed power cables	For direct installation under ground, not for installation in conduits.
YJV32	YJLV32	交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated thin steel wire armored PVC sheathed power cables	敷设在江河或浅海的河床上, 作为跨越江河或石油、天然气平台间的联线, 也用于陆上高落差地区。
YJV33	YJLV33	交联聚乙烯绝缘细钢丝铠装聚乙烯护套电力电缆 XLPE insulated thin steel wire armored PE sheathed power cables	
YJV42	YJLV42	交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated thick steel wire armored PVC sheathed power cables	
YJV43	YJLV43	交联聚乙烯绝缘粗钢丝铠装聚乙烯护套电力电缆 XLPE insulated thick steel wire armored PE sheathed power cables	For installation on river or seabed crossing river or between platforms in an offshore oil or gas field, as well as installation in region with high fall.

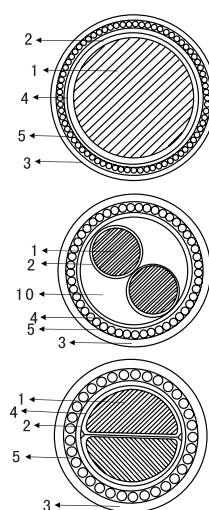
#### U<sub>0</sub>/U 0.6/1kV 电缆结构图 U<sub>0</sub>/U 0.6/1kV Picture of structure



YJV、YJLV 型  
电缆断面图



YJV22、YJLV22 型  
电缆断面图



YJV32、YJLV32、YJV42、  
YJLV42 型电缆断面图



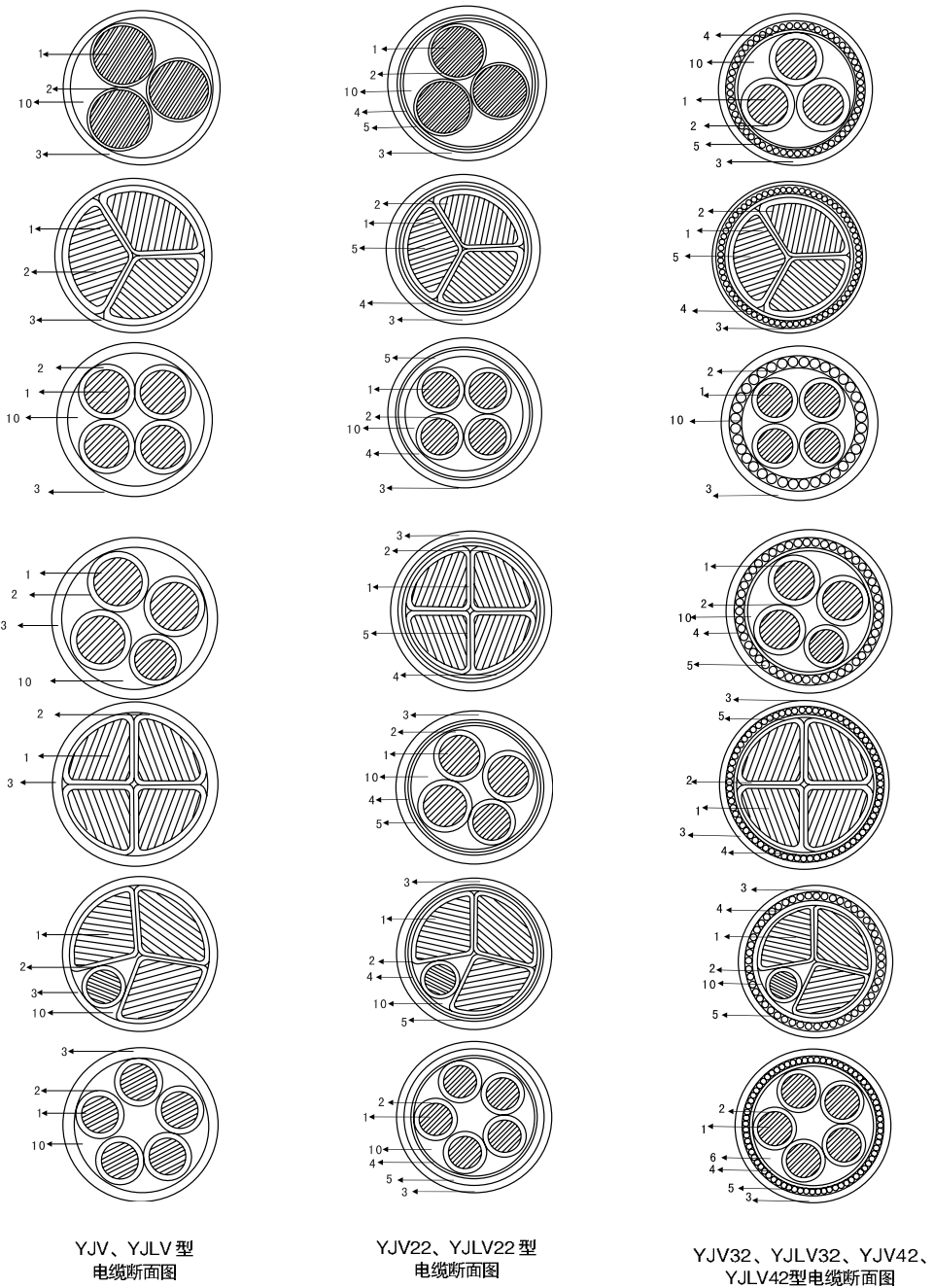


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Power cables with XLPE

U<sub>0</sub>/U:0.6/1kV电缆结构图 Picture of structure



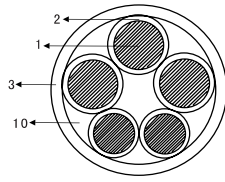


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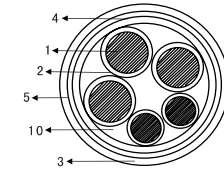
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Power cables with XLPE

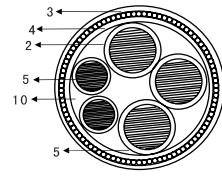
$U_0/U:0.6/1kV$  电缆结构图 Picture of structure



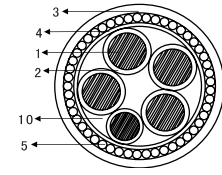
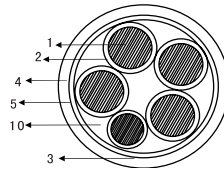
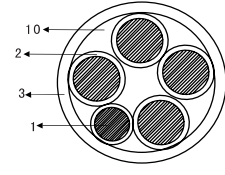
YJV、YJLV 型  
电缆断面图



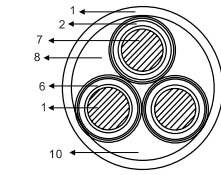
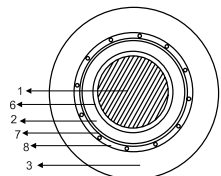
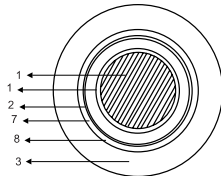
YJV22、YJLV22 型  
电缆断面图



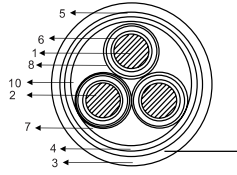
YJV32、YJLV32、YJV42、YJLV42 型  
电缆断面图



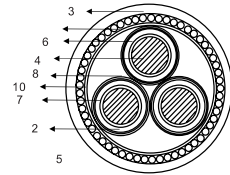
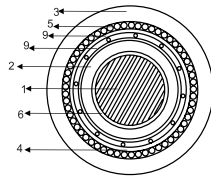
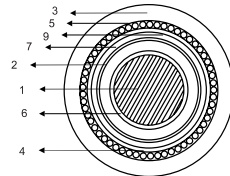
$U_0/U:0.6/1kV-21/35kV(26/35kV)$  电缆结构图 Picture of structure



YJV、YJLV 型  
电缆断面图



YJV22、YJLV22 型  
电缆断面图



YJV32、YJLV32、YJV42、  
YJLV42 型电缆断面图

- 1-导体 conductor
- 2-绝缘层 Insulation
- 3-外护套 over sheath
- 4-内衬层 inner covering
- 5-铠装层 Armor

- 6-导体屏蔽 Conductor screen
- 7-绝缘屏蔽 Insulation screen
- 8-铜带(丝)屏蔽 Cu-tape(wire)shield
- 9-包带 Tape
- 10-填充 Filler



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交联聚乙烯绝缘电力电缆  
Power cables with XLPE

21/35kV(26/45kV)及以下交联聚乙烯绝缘电力电缆  
XLPE insulated power cables for rated voltages up to 21/35kV(26/45kV)

交联聚乙烯绝缘电力电缆生产范围 Production rang of XLPE insulated power cables

型号 Type	芯数 Core number	额定电压 Rating(KV)				
		0.6/1	6/6,6/10	8.7/10,8.7/15	21/35	26/35
导电线芯标称截面 Normal cross sectional area of conductor						
YJV YJLV YJY YJLY	1	1.5 - 630	25 ~ 630	25 ~ 630	50 ~ 630	50 ~ 630
YJV32 YJLV32 YJV33 YJLV33		25 ~ 630				
YJV42 YJLV42 YJV43 YJLV43		---				
YJV YJLV YJY YJLY	3	1.5 - 300	25 ~ 400	25 ~ 400	50 ~ 400	50 ~ 400
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 300				
YJV YJLV YJY YJLY	2	1.5 - 185	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 185				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 185				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 185				
YJV YJLV YJY YJLY	3+1	4 ~ 300	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		2.5 ~ 300				
YJV YJLV YJY YJLY	4	1.5 - 300	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 300				
YJV YJLV YJY YJLY	4+1	4 ~ 300	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 300				
YJV YJLV YJY YJLY	3+2	4 ~ 300	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 300				
YJV YJLV YJY YJLY	5	4 ~ 300	---	---	---	---
YJV22 YJLV22 YJV23 YJLV23		4 ~ 300				
YJV32 YJLV32 YJV33 YJLV33		4 ~ 300				
YJV42 YJLV42 YJV43 YJLV43		25 ~ 300				

注：单芯铠装电缆仅用于直流系统，若用交流系统，应采用非磁性的铠装层或着取隔磁措施

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 21/35kV(26/35kV)交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 21/35kV(26/35kV)

#### 产品简介 Introduction

21/35kV(26/35kV)交联聚乙烯绝缘电力电缆适用于交流50Hz额定电压21/35kV(26/35kV)及其以下的输配电线路。电缆的机械物理性能及电性能符合国家标准GB/T12706-2002《额定电压1kV(U<sub>m</sub>=1.2kV)到35kV(U<sub>m</sub>=40.5kV)挤包绝缘电力电缆及附件》和国际标准IEC 60502-1997《额定电压1~30kV挤包绝缘电力电缆及附件》。XLPE insulated power cables for rated voltages up to 21/35kV(26/35kV) are fit for AC 50Hz transmission and distribution lines for the same rated voltages. The mechanical and electrical properties of these cables are accordant with GB/T12706-2002《Power cables extruded insulation and their accessories of rated voltages 1kV(U<sub>m</sub>=1.2kV) up to 35kV(U<sub>m</sub>=40.5kV)》and IEC 60502-1997《Extruded insulation power cables and appendixes for rated voltages 1kV up to 30kV》。

#### 使用特性 Instruction of application

1. 额定电压: 21/35kV(26/35kV)  
Rated voltages: 21/35kV(26/35kV)
2. 电缆的敷设温度:  $\geq 0^{\circ}\text{C}$   
The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$
3. 电缆导体的长期允许工作温度:  $\leq 90^{\circ}\text{C}$   
Maximum conductor temperature in normal operation:  $\leq 90^{\circ}\text{C}$
4. 短路时(最长持续时间不超过5S)电缆的最高工作温度:  $250^{\circ}\text{C}$   
Max operating temperature of con. when cable short-circuited(5s maximum duration):  $250^{\circ}\text{C}$
5. 电缆的允许弯曲半径:  
Permissible bending radius:
  - 单芯电缆:  $[20(D+d) \pm 5\%]$ , mm  
Single cable:  $[20(D+d) \pm 5\%]$ , mm
  - 多芯电缆:  $[15(D+d) \pm 5\%]$ , mm  
Multi cable:  $[15(D+d) \pm 5\%]$ , mm
  - D——— 电缆的实际外径, mm  
D——— Actual overall diameter, mm
  - d——— 电缆导体的实际外径, mm  
d——— Actual diameter of Con, mm



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

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

表1 单芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 1 Structure and weight of single-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 a 量/kg/km Approx. weight/kg/km			
					YJV	YJY	YJLV	YJLV
50	8.1	9.3	2.1	37	1586	1478	1295	1187
70	9.9	9.3	2.2	39	1878	1759	1458	1338
95	11.5	9.3	2.2	41	2192	2068	1608	1484
120	12.9	9.3	2.3	42	2500	2365	1764	1629
150	14.3	9.3	2.3	44	2818	2678	1910	1770
185	16.0	9.3	2.4	45	3252	3099	2115	1962
240	18.4	9.3	2.5	48	3906	3738	2413	2245
300	20.6	9.3	2.5	50	4567	4391	2693	2516
400	23.3	9.3	2.6	53	5479	5285	3082	2888
500	26.7	9.3	2.8	59	6691	6459	3611	3379
630	30.4	9.3	2.9	63	8199	7942	4216	3959

表2 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 2 Structure and weight of three-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLV
50	8.1	9.3	3.4	76	5485	5123	4885	4523
70	9.9	9.3	3.5	80	633	6039	5567	5173
95	11.5	9.3	3.6	83	7501	7077	6298	5875
120	12.9	9.3	3.7	87	8482	8029	7286	6833
150	14.3	9.3	3.8	90	9564	9081	7692	7209
185	16.0	9.3	4.0	94	10985	10454	8643	8112
240	18.4	9.3	4.1	99	13083	12507	10008	9432
300	20.6	9.3	4.3	104	15321	14685	11460	10824
400	23.3	9.3	4.5	111	18321	17616	13383	12678

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表3 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 3 Structure and weight of three-core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似重量 kg/km Approx. overall diameter weight kg/km	电缆近似重量 kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
50	8.1	9.3	2.0	0.5	3.5	83	9625	8941	8786	8102
70	9.9	9.3	2.0	0.8	3.8	88	10815	10154	9569	8839
95	11.5	9.3	2.1	0.8	3.9	91	12116	11327	10372	9583
120	12.9	9.3	2.2	0.8	4.0	95	13306	12448	11111	10253
150	14.3	9.3	2.2	0.8	4.1	98	14549	13648	11830	10928
185	16.0	9.3	2.3	0.8	4.2	102	16182	15214	12765	11797
240	18.4	9.3	2.4	0.8	4.4	108	18657	17590	14153	13086
300	20.6	9.3	2.5	0.8	4.6	113	21218	20068	15532	14382
400	23.3	9.3	2.6	0.8	4.8	120	24602	23318	17338	16054

表4 单芯交联聚乙烯绝缘聚细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 4 Structure and weight of single-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似重量 kg/km Approx. overall diameter weight kg/km	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	9.3	1.2	2.0	2.3	44	3266	3066	2975	2775
70	9.9	9.3	1.3	2.5	2.4	47	4072	3845	3652	3425
95	11.5	9.3	1.3	2.5	2.5	49	4498	4255	3914	3671
120	12.9	9.3	1.3	2.5	2.5	50	4877	4627	4141	3890
150	14.3	9.3	1.4	2.5	2.6	52	5372	5054	4419	4146
185	16.0	9.3	1.4	2.5	2.6	54	5834	5551	4697	4414
240	18.4	9.3	1.4	2.5	2.7	56	6628	6323	5135	4830
300	20.6	9.3	1.5	2.5	2.8	59	7473	7138	5599	5264
400	23.3	9.3	1.5	2.5	2.9	62	8530	8169	6133	5772
500	26.7	9.3	1.6	2.5	3.1	68	10145	9719	7065	6639
630	30.4	9.3	1.7	2.5	3.2	72	11919	11447	7936	7464



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表5 三芯交联聚乙烯绝缘聚细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 5 Structure and weight of three-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	9.3	2.0	3.15	3.8	87	10973	10289	10091	9407
70	9.9	9.3	2.0	3.15	3.9	91	12220	11489	10752	10022
95	11.5	9.3	2.1	3.15	4.0	95	13559	12770	11783	10994
120	12.9	9.3	2.2	3.15	4.1	98	14871	14013	12643	11785
150	14.3	9.3	2.2	3.15	4.2	101	16119	15217	13364	12503
185	16.0	9.3	2.3	3.15	4.3	105	17843	16875	14392	13424
240	18.4	9.3	2.4	3.15	4.5	111	20416	19349	15876	14809

表6 单芯交联聚乙烯绝缘聚粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 6 Structure and weight of single-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
50	8.1	9.3	2.0	4.0	2.5	50	5152	4857	4861	4584
70	9.9	9.3	2.0	4.0	2.6	52	5673	5377	5253	4956
95	11.5	9.3	2.0	4.0	2.6	53	6106	5799	5522	5215
120	12.9	9.3	2.0	4.0	2.7	55	6536	6212	5800	5475
150	14.3	9.3	2.0	4.0	2.7	56	7011	6677	6103	5768
185	16.0	9.3	2.0	4.0	2.8	58	7531	7176	6394	6039
240	18.4	9.3	2.0	4.0	2.9	61	8420	8039	6927	6546
300	20.6	9.3	2.0	4.0	3.0	63	9336	8930	7462	7056
400	23.3	9.3	2.0	4.0	3.1	66	10488	10052	8091	7655
500	26.7	9.3	2.0	4.0	3.2	72	12149	11661	9069	8581
630	30.4	9.3	2.0	4.0	3.3	76	14008	13480	10025	9497

表7 三芯交联聚乙烯绝缘聚粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 7 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	9.3	2.0	4.0	3.8	88	12262	11578	11371	10687
70	9.9	9.3	2.0	4.0	3.9	93	13563	12832	12277	11546
95	11.5	9.3	2.1	4.0	4.0	96	15019	14231	13232	12444
120	12.9	9.3	2.2	4.0	4.2	100	16429	15571	14176	13318
150	14.3	9.3	2.2	4.0	4.3	103	17756	16854	14976	14074
185	16.0	9.3	2.3	4.0	4.4	107	19536	18568	16058	15090
240	18.4	9.3	2.4	4.0	4.6	113	22205	21138	19130	18063
300	20.6	9.3	2.5	4.0	4.7	118	24921	23771	21060	19910
400	23.3	9.3	2.6	4.0	5.0	125	29040	27755	21705	20420

注:导体外径仅供参考。Annotation: Diameters of conductors are only used to refer.

交联聚乙烯绝缘电力电缆  
Power cables with XLPE

21/35kV(26/35kV)交联聚乙烯绝缘电力电缆  
XLPE insulated power cables for rated voltages up to 21/35kV(26/35kV)

交联聚乙烯绝缘电力电缆允许持续载流量 Allowed current-ratings of XLPE insulated power cable

表8 21/35kV(26/35kV)交联聚乙烯绝缘电力电缆允许持续载流量(A)  
Table8 Allowed current-ratings of XLPE insulated power cable for rated voltages up to 21/35kV(26/35kV)(A)

型号 Type	YJV.YJLV.YJV22.YJLV22.YJY.YJLY. YJV23.YJLV23.YJV32.YJLV32.YJV33. YJLV33.YJV42.YJLV42.YJV43.YJLV43				YJV.YJLV.YJY.YJLY.YJV32. YJLV32.YJV33.YJLV33.YJV42. YJLV42.YJV43.YJLV43								
	三芯 Three-core				单芯 Single-core								
敷设 Installation	①空气中 In the air		②土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$		空气中 In the air				土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$				
单芯电缆排列方式 Arrangement of single cable					③三角排列 Trefoil		④扁平排列 Flat		⑤三角排列 Trefoil		⑥扁平排列 Flat		
线芯材质 Material of con.	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	
标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	50	201	156	215	167	220	170	245	190	215	165	225	175
	70	246	191	261	203	270	210	305	235	265	200	275	215
	95	295	229	312	242	330	255	370	285	315	240	330	255
	120	338	262	354	275	375	290	425	330	360	270	375	290
	150	381	295	397	308	425	330	485	375	400	305	420	325
	185	434	337	449	349	485	380	555	430	455	345	475	370
	240	508	395	520	405	560	435	650	505	525	400	555	430
	300	578	450	588	458	650	510	745	580	595	455	630	490
	400	664	520	668	524	760	595	870	680	680	525	720	565
	500	...	...	...	...	875	690	1000	790	775	600	825	645
630	...	...	...	...	1000	800	1160	920	875	685	940	740	
环境温度°C Environmental temp.°C	40		25		40				25				
线芯最高 工作温度°C Max operating temp. of con. °C	90												





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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 21/35kV(26/45kV)交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 21/35kV(26/35kV)

表1 单芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table1 Structure and weight of single-core XLPE insulated PVC/PC sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY33
50	8.1	10.5	2.2	39	1778	1649	1487	1358
70	9.9	10.5	2.2	41	2061	1926	1641	1506
95	11.5	10.5	2.3	43	2401	2254	1817	1670
120	12.9	10.5	2.3	44	2697	2545	1960	1808
150	14.3	10.5	2.4	46	3077	2912	2139	1974
185	16.0	10.5	2.5	48	3492	3313	2355	2176
240	18.4	10.5	2.5	50	4137	3948	2644	2455
300	20.6	10.5	2.6	52	4832	4626	2958	2752
400	23.3	10.5	2.7	55	5959	5734	3362	3137
500	26.7	10.5	2.8	61	6951	6685	3871	3605
630	30.4	10.5	2.9	64	8435	8155	4452	4172

表2 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table2 Structure and weight of three-core XLPE insulated PVC/PC sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY33
50	8.1	10.5	3.5	81	6202	2802	5311	4911
70	9.9	10.5	3.6	85	7142	6709	5856	5423
95	11.5	10.5	3.8	89	8310	7833	6524	6047
120	12.9	10.5	3.9	92	9312	8804	7059	6551
150	14.3	10.5	4.0	96	10447	9908	7667	7128
185	16.0	10.5	4.1	99	11891	11315	8413	7837
240	18.4	10.5	4.3	105	14082	13444	9514	8876
300	20.6	10.5	4.4	110	16312	15628	10576	9892
400	23.3	10.5	4.6	116	19383	18627	12048	11292



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表3 三芯交联聚乙烯绝缘钢铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table3 Structure and weight of three-core XLPE insulated steel tape armored PVC/PC sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	10.5	2.1	0.8	3.8	90	9691	8974	8800	8083
70	9.9	10.5	2.1	0.8	3.9	94	10788	10023	9502	8737
95	11.5	10.5	2.2	0.8	4.0	98	12107	11283	10321	9497
120	12.9	10.5	2.3	0.8	4.1	101	13232	12366	10979	10113
150	14.3	10.5	2.3	0.8	4.2	104	14560	13635	11780	10855
185	16.0	10.5	2.4	0.8	4.3	108	16152	15176	12674	11689
240	18.4	10.5	2.4	0.8	4.5	114	18644	17568	14075	12999
300	20.6	10.5	2.5	0.8	4.6	119	21134	19975	15398	14239
400	23.3	10.5	2.6	0.8	4.8	126	24515	23240	17181	15906

表4 单芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table4 Structure and weight of single-core XLPE insulated thin steel wire armored PVC/PC sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	10.5	1.3	2.5	2.5	47	3960	3728	3669	3437
70	9.9	10.5	1.3	2.5	2.5	49	4334	4091	3914	3671
95	11.5	10.5	1.3	2.5	2.6	51	4767	4508	4183	3924
120	12.9	10.5	1.4	2.5	2.6	52	5171	4898	4435	4161
150	14.3	10.5	1.4	2.5	2.7	54	5613	5323	4705	4414
185	16.0	10.5	1.4	2.5	2.7	56	6125	5825	4988	4688
240	18.4	10.5	1.5	2.5	2.8	58	6953	6622	5460	5130
300	20.6	10.5	1.5	2.5	2.9	61	7786	7432	5912	5557
400	23.3	10.5	1.6	2.5	3.0	64	8880	8491	6693	6094
500	26.7	10.5	1.6	2.5	3.1	70	10322	9889	7242	6809
630	30.4	10.5	1.7	2.5	3.2	74	12099	11619	8116	7637



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表5 三芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table5 Structure and weight of three-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm Thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	10.5	2.1	3.15	3.9	91	12049	11315	11158	10424
70	9.9	10.5	2.1	3.15	4.0	95	13133	12350	11847	11064
95	11.5	10.5	2.2	3.15	4.2	99	14772	13915	12985	12128
120	12.9	10.5	2.3	3.15	4.3	103	16057	15143	13804	12890
150	14.3	10.5	2.3	3.15	4.4	106	17420	16460	14640	13680
185	16.0	10.5	2.4	3.15	4.5	110	19213	18186	15734	14704

表6 单芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table6 Structure and weight of single-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm Thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
50	8.1	10.5	2.0	4.0	2.6	52	5437	5142	5146	4851
70	9.9	10.5	2.0	4.0	2.7	54	5965	5650	5545	5230
95	11.5	10.5	2.0	4.0	2.7	55	6405	6079	5821	5495
120	12.9	10.5	2.0	4.0	2.8	57	6837	6194	6101	5758
150	14.3	10.5	2.0	4.0	2.9	59	7308	6947	6400	6038
185	16.0	10.5	2.0	4.0	2.9	60	7849	7475	6712	6338
240	18.4	10.5	2.0	4.0	3.0	63	8749	8348	7256	6855
300	20.6	10.5	2.0	4.0	3.0	65	9646	9229	7771	7355
400	23.3	10.5	2.0	4.0	3.1	68	10808	10361	8411	7964
500	26.7	10.5	2.0	4.0	3.2	74	12435	11939	9355	8860
630	30.4	10.5	2.0	4.0	3.3	78	14197	13662	10214	9679

表7 三芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table7 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm Thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
50	8.1	10.5	2.1	4.0	4.0	93	13495	1777	12604	11886
70	9.9	10.5	2.1	4.0	4.1	97	14865	14057	13579	12771
95	11.5	10.5	2.2	4.0	4.2	101	16285	15418	14498	13631
120	12.9	10.5	2.3	4.0	4.4	105	17725	16784	15472	14531
150	14.3	10.5	2.3	4.0	4.5	108	19114	18127	16334	15347
185	16.0	10.5	2.4	4.0	4.6	112	20962	19907	17484	16429
240	18.4	10.5	2.4	4.0	4.7	117	23592	22466	19024	17898
300	20.6	10.5	2.5	4.0	4.8	122	26247	25037	20511	19301
400	23.3	10.5	2.6	4.0	5.1	129	30029	28681	22694	21346

注：导体外径仅参考。Annotation: Diameters conductors are only used to refer 26/35kV(26/35)交联聚乙烯绝缘电力电缆允许持续载流量见P15。

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 附录 Appendix

#### 环境条件对电缆载流量的修正系数 Correction coefficient of ambient current-ratings

##### 1. 土壤敷设 Installed in ground

###### 1-1 土壤温度变化 Temperature change of ground

土壤温度 Ground temperature ℃	15	20	25	30	35	40	45
系数 Coefficient	1.07	1.04	1.0	0.96	0.92	0.87	0.83

###### 1-2 土壤热阻变化 Change of ground hot resistance

土壤热阻 Hot resistance km/W	1.0	1.2	1.5	2.0	2.5	3.0	3.5
三芯电缆 three-core cable	1.0	0.943	0.877	0.792	0.736	0.675	0.641
单芯电缆 single-core cable	1.0	0.943	0.850	0.748	0.692	0.35	0.598

敷设深度 Installed depth m	0.6/1kv
0.50-0.70	1.00
0.71-0.91	0.96
0.91-1.10	0.94
1.11-1.40	0.92

###### 1-4 多芯电缆水平敷设组间距离变化 Distance change of multi-core cables when flat installed

间距 Distance m	回路数 Loop numbers						
	2	3	4	5	6	8	10
接触 Contact	0.79	0.69	0.63	0.58	0.55	0.50	0.46
0.07	0.85	0.75	0.68	0.68	0.60	0.56	0.53
0.25	0.87	0.79	0.75	0.75	0.69	0.66	0.64

注：表中给出系数也适用于三个单芯电缆的多回路

Annotation: Coefficients in the table are suitable to multi-loop with three single-core cables.

##### 2. 空气敷设 Installed in air

###### 2-1 空气温度变化 Temperature change of air

环境空气温度 Ambient air temperature ℃	20	25	30	35	40	45	50
系数 Coefficient	1.18	1.14	1.10	1.05	1.0	0.95	0.89

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 附录 Appendix

#### 允许短路电流 Allowed short circuit current

##### 1. 导体的允许短路电流(单位: kA)

Allowed short circuit current of conductor(Unit: kA)

根据IEC49、IEC986计算交联聚乙烯电缆导体允许短路电流, 导体短路前温度90°C, 短路后温度250°C。

Allowed short circuit current of XLPE insulated cable conductor is calculated according to IEC949, IEC986, temperature is 90 before short circuit, 250°C after short circuit.

导体标称截面 Normal cross-sectional area of conductor	短路持续时间(S) Short circuit continuing time(s)					
	铜导体Cu			铝导体Al		
	1	2	3	1	2	3
1.5	0.12	0.08	0.07	0.12	0.09	0.07
2.5	0.32	0.22	0.18	0.21	0.15	0.12
4	0.50	0.36	0.29	0.33	0.23	0.19
6	0.76	0.54	0.44	0.49	0.35	0.28
10	1.3	0.89	0.73	0.82	0.58	0.47
16	2.0	1.4	1.2	1.3	0.93	0.76
25	3.8	2.7	2.2	2.5	1.8	1.5
35	5.2	3.7	3.0	3.5	2.5	2.1
50	7.6	5.3	4.3	4.9	3.5	2.9
70	10.3	7.3	6.0	6.8	4.9	4.1
95	13.9	9.9	8.1	9.2	6.5	5.4
120	17.5	12.5	10.2	11.6	8.2	6.8
150	21.8	15.5	12.8	14.4	10.3	8.4
185	26.9	19.1	15.7	17.7	12.6	10.4
240	34.8	24.7	20.3	23.0	16.3	13.4
300	43.4	30.9	25.3	28.7	20.4	16.7
400	57.8	41.1	33.6	38.2	27.1	22.2
500	72.2	51.3	42.0	47.7	33.8	27.7
630	90.9	64.5	52.8	60.0	42.6	34.9

##### 2. 金属屏蔽/金属护套允许短路电流(单位: kA)

Allowed short circuit current of metallic shielding/metallic sheath(Unit: kA)

35kV及以下铜带屏蔽电缆

Cu tape shielded cable for rated voltages up to 35kV and hereinafter

根据IEC949、IEC986计算交联电缆铜带屏蔽允许短路电流。

Allowed short circuit current of Cu tape shielding of XLPE insulated cables is calculated according to IEC949, IEC986.

导体标称截面(mm <sup>2</sup> ) Normal cross-sectional area of conductor	回路数 Loop numbers		
	1	2	3
单芯电缆 Single-core cable	0.204a	0.173a	0.141a
三芯电缆 three-core cable	0.248a	0.194a	0.158a

注 表中a—铜带屏蔽有效截面(mm<sup>2</sup>) Annotation: a in the table—valid cross-area of Cu tape shielding(mm<sup>2</sup>).

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 6/6kV(6/10kV)交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 6/6kV(6/10kV)

#### 产品简介 Introduction

6/6kV(6/10kV)交联聚乙烯绝缘电力电缆适用于交流50Hz额定电压6/6kV(6/10kV)及其以下的配电线路。电缆的机械物理性能及电性能符合国家标准GB/T12706-2002《额定电压1kV( Um=1.2kV )到35kV( Um=40.5kV )挤包绝缘电力电缆及附件》和国际标准IEC 60502-1997《额定电压1 ~ 30kV挤包绝缘电力电缆及附件》。

XLPE insulated power cables for rated voltages up to 6/6kV(6/10kV) are fit for AC 50Hz distribution lines for the same rated voltages. The mechanical and electrical properties of these cables are accordant with GB/T12706-2002《Power cables extruded insulation and their accessories of rated voltages 1kV(Um=1.2kV) up to 35kV(Um=40.5kV)》and IEC60502-1997《Extruded insulation power cables and appendites for rated voltages 1kV up to 30kV》。

#### 使用特性 Instruction of application

1. 额定电压: 6/6kV(6/10kV)  
Rated voltages: 6/6kV(6/10kV)

2. 电缆的敷设温度:  $\geq 0^{\circ}\text{C}$   
The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$

3. 电缆导体的长期允许工作温度:  $\leq 90^{\circ}\text{C}$   
Maximum conductor temperature in normal operation:  $\leq 90^{\circ}\text{C}$

4. 短路时(最长持续时间不超过5s)电缆的最高工作温度:  $250^{\circ}\text{C}$   
Max operating temperature of con. when cable short-circuited(5s maximum duration):  $250^{\circ}\text{C}$

5. 电缆的允许弯曲半径:  
Permissible bending radius:

单芯电缆:  $[20 (D+d) \pm 5\%]$ , mm

Single cable:  $[20 (D+d) \pm 5\%]$ , mm

多芯电缆:  $[15 (D+d) \pm 5\%]$ , mm

D———电缆的实际外径, mm

Actual overall diameter, mm

d———电缆导体的实际外径, mm

Actual diameter of Con, mm



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

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

表1 单芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量

Table 1 Structure and weight of single-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
25	6.0	3.4	1.6	21	641	596	486	441
35	7.0	3.4	1.6	22	757	710	542	495
50	8.1	3.4	1.7	23	909	856	618	565
70	9.9	3.4	1.7	25	1149	1091	729	671
95	11.5	3.4	1.8	27	1443	1377	860	794
120	12.9	3.4	1.8	28	1705	1636	968	899
150	14.3	3.4	1.9	30	2008	1931	1099	1022
185	16.0	3.4	1.9	32	2388	2306	1251	1169
240	18.4	3.4	2.0	34	2989	2895	1496	1402
300	20.6	3.4	2.1	37	3622	3516	1748	1642
400	23.3	3.4	2.2	40	4475	4355	2078	1958
500	26.7	3.4	2.3	43	5594	4914	2514	1834
630	30.4	3.4	2.4	47	7032	6875	3049	2892

表2 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量

Table 2 Structure and weight of three-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
25	6.0	3.4	2.3	42	1947	1813	1472	1338
35	7.0	3.4	2.3	44	2301	2160	1643	1502
50	8.1	3.4	2.5	47	2779	2616	1888	1725
70	9.9	3.4	2.6	51	3546	3361	2260	2075
95	11.5	3.4	2.7	55	4444	4238	2657	2451
120	12.9	3.4	2.8	58	5281	5055	3028	2802
150	14.3	3.4	2.9	61	6206	5957	3426	3177
185	16.0	3.4	3.0	65	7411	7138	3933	3660
240	18.4	3.4	3.2	70	9290	8973	4722	4404
300	20.6	3.4	3.3	75	11233	10883	5497	5147
400	23.3	3.4	3.6	82	13937	13523	6602	6188

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表3 三芯交联聚乙烯绝缘钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 3 Structure and weight of three-core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
25	6.0	3.4	1.3	0.5	2.4	47	3054	2823	2579	2348
35	7.0	3.4	1.4	0.5	2.5	49	3508	3252	2850	2594
50	8.1	3.4	1.4	0.5	2.6	52	4032	3754	3141	2864
70	9.9	3.4	1.5	0.5	2.7	56	4930	4613	3644	3327
95	11.5	3.4	1.6	0.5	2.8	60	5951	5595	4164	3808
120	12.9	3.4	1.6	0.5	2.9	63	6871	6487	4618	4234
150	14.3	3.4	1.7	0.5	3.1	67	7801	7357	5012	4587
185	16.0	3.4	1.8	0.5	3.2	71	9286	8807	5808	5329
240	18.4	3.4	1.9	0.5	3.4	77	11355	10803	6787	6235
300	20.6	3.4	1.9	0.8	3.5	83	14368	13762	8632	8026
400	23.3	3.4	2.1	0.8	3.8	90	17406	16688	10071	9353

表4 单芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 4 Structure and weight of single-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	3.4	1.2	1.6	1.8	27	1456	1357	1301	1202
35	7.0	3.4	1.2	1.6	1.8	28	1610	1507	1395	1292
50	8.1	3.4	1.2	1.6	1.9	29	1804	1692	1513	1401
70	9.9	3.4	1.2	1.6	1.9	31	2105	1984	1685	1564
95	11.5	3.4	1.2	2.0	2.0	34	2697	2562	2113	1978
120	12.9	3.4	1.2	2.0	2.1	35	3034	2887	2297	2150
150	14.3	3.4	1.2	2.0	2.1	37	3384	3230	2475	2321
185	16.0	3.4	1.2	2.0	2.2	39	3842	3675	2705	2528
240	18.4	3.4	1.2	2.0	2.2	41	4564	4366	3053	2873
300	20.6	3.4	1.2	2.0	2.3	43	5272	5075	3397	3200
400	23.3	3.4	1.3	2.5	2.5	48	6731	6496	4334	4099
500	26.7	3.4	1.3	2.5	2.6	51	8037	7776	4957	4696
630	30.4	3.4	1.4	2.5	2.7	55	9686	9388	5703	5405





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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表5 三芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 5 Structure and weight of three-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	3.4	1.3	2.5	2.5	50	4322	4073	3847	3598
35	7.0	3.4	1.4	2.5	2.6	52	4813	4538	4155	3880
50	8.1	3.4	1.4	2.5	2.7	55	5412	5115	4521	4224
70	9.9	3.4	1.5	2.5	2.8	59	6433	6095	5147	4809
95	11.5	3.4	1.6	2.5	3.0	63	7573	7187	5786	5400
120	12.9	3.4	1.6	2.5	3.1	67	8599	8182	6346	5929
150	14.3	3.4	1.7	2.5	3.2	70	9741	9283	9661	6503
185	16.0	3.4	1.8	3.15	3.4	76	12078	11556	8600	8078
240	18.4	3.4	1.9	3.15	3.5	81	14330	13745	9762	9177
300	20.6	3.4	1.9	3.15	3.7	86	16679	16031	10943	10295
400	23.3	3.4	2.1	3.15	3.9	93	19871	19122	12536	11787

表6 单芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 6 Structure and weight of single-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	3.4	2.0	4.0	2.0	34	2894	2774	2739	2589
35	7.0	3.4	2.0	4.0	2.1	35	3036	2875	2821	2660
50	8.1	3.4	2.0	4.0	2.1	36	3292	3124	3001	2833
70	9.9	3.4	2.0	4.0	2.2	38	3772	3588	3352	3168
95	11.5	3.4	2.0	4.0	2.2	40	4174	3980	3590	3396
120	12.9	3.4	2.0	4.0	2.3	41	4571	4362	3835	3626
150	14.3	3.4	2.0	4.0	2.3	43	4978	4760	4070	3852
185	16.0	3.4	2.0	4.0	2.4	45	5498	5263	4361	4126
240	18.4	3.4	2.0	4.0	2.4	47	6314	6053	4821	4560
300	20.6	3.4	2.0	4.0	2.5	48	7240	6908	5365	5033
400	23.3	3.4	2.0	4.0	2.6	51	8272	7974	5875	5577
500	26.7	3.4	2.0	4.0	2.7	55	9637	9308	3557	6228
630	30.4	3.4	2.0	4.0	2.8	59	11425	11062	7442	7079

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表7 三芯交联聚乙烯绝缘聚粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 7 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	3.4	2.0	4.0	2.7	55	5980	5657	5505	5182
35	7.0	3.4	2.0	4.0	2.8	57	6483	6138	5825	5480
50	8.1	3.4	2.0	4.0	2.9	60	7177	6806	6286	5915
70	9.9	3.4	2.0	4.0	3.0	64	8297	7888	7011	6602
95	11.5	3.4	2.0	4.0	3.1	67	9441	8997	7654	7210
120	12.9	3.4	2.0	4.0	3.2	71	10622	10145	8369	7892
150	14.3	3.4	2.0	4.0	3.3	74	11789	11277	9009	8497
185	16.0	3.4	2.0	4.0	3.4	78	13344	12793	9866	9315
240	18.4	3.4	2.0	4.0	3.6	83	15697	15080	11129	10512
300	20.6	3.4	2.0	4.0	3.8	88	18041	17359	12305	11623
400	23.3	3.4	2.1	4.0	4.0	95	21333	20561	13998	13226

注：\*单芯铠装 电缆仅用于直流系统，若用交流系统，应采用非磁性材料的铠装层或采用隔磁措施。

The single core armoured cables are used for D.C. system only. As for A.C. system, the magnetic isolation should be applied on the steel armoured wires of non-magnetic materials should be used.

\*导体外径仅供参考。

Annotation: Diameters of conductors are only used to refer.



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表8 6/6kV(6/10kV)交联聚乙烯绝缘电力电缆允许持续载流量(A)

Table 8 Allowed current-ratings of XLPE insulated power cable for rated voltages up to 6/6kV(6/10kV)(A)

型号 Type	YJV、YJLV、YJV22、YJLV22、YJLY、 YJV23、YJLV23、YJV32、YJLV32、YJV33、 YJLV33、YJV42、YJLV42、YJV43、YJLV43				YJV、YJLV、YJY、YJLY、YJV32、 YJLV32、YJV33、YJLV33、YJV42、 YJLV42、YJV43、YJLV43								
芯数 No. of cores	三芯 Three-core				单芯 Single-core								
敷设 Installation	①空气中 In the air		②土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$		空气中 In the air				土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$				
					③三角排列 Trefoil		④扁平排列 Flat		⑤三角排列 Trefoil		⑥扁平排列 Flat		
单芯电缆排列方式 Arrangement of single cable													
线芯材质 Material of con.	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	
标称截面mm <sup>2</sup> Normal cross- sectional area of conductor mm <sup>2</sup>	5	132	103	154	120	140	110	165	130	150	115	160	120
	35	159	124	184	143	170	135	205	155	180	135	190	145
	50	190	147	217	168	205	160	245	190	215	160	225	175
	70	236	183	266	206	260	200	305	235	265	200	275	215
	95	286	222	318	246	315	245	370	290	315	240	330	255
	120	328	255	360	280	360	280	430	335	360	270	375	290
	150	372	288	404	313	410	320	490	380	405	305	425	330
	185	425	330	456	355	470	365	560	435	455	345	480	370
	240	500	389	529	411	555	435	665	515	530	400	555	435
	300	572	445	597	465	640	500	765	595	595	455	630	490
	400	659	516	678	532	745	585	890	695	680	520	725	565
	500	...	...	...	...	855	680	1030	810	765	595	825	650
630	...	...	...	...	980	790	1190	950	860	680	940	745	
环境温度°C Environmental temp.°C	40		25		40				25				
线芯最高 工作温度°C Max operating temp. of con.°C	90												

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 8.7/10kV(8.7/15kV)交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 8.7/10kV(8.7/15kV)

#### 产品简介 Introduction

8.7/10kV(8.7/15kV)交联聚乙烯绝缘电力电缆适用于交流50Hz额定电压8.7/10kV(8.7/15kV)及其以下的配电线路。电缆的机械物理性能及电性能符合国家标准GB/T12706-2002《额定电压1kV(U<sub>m</sub>=1.2kV)到35kV(U<sub>m</sub>=40.5kV)挤包绝缘电力电缆及附件》和国际标准IEC 60502-1997《额定电压1~30kV挤包绝缘电力电缆及附件》。

XLPE insulated power cables for rated voltages up to 8.7/10kV(8.7/10kV) are fit for AC 50Hz transmission distribution lines for the same rated voltages. The mechanical and electrical properties of these cables are accordant with GB/T12706-2002《Power cables extruded insulation and their accessories of rated voltages 1kV(U<sub>m</sub>=1.2kV) up to 35kV(U<sub>m</sub>=40.5kV)》and IEC 60502-1997《Extruded insulation power cables and appendixes for rated voltages 1kV up to 30kV》。

#### 使用特性 Instruction of application

1. 额定电压: 8.7/10kV(8.7/15kV)

Rated voltages: 8.7/10kV(8.7/15kV)

2. 电缆的敷设温度:  $\geq 0^{\circ}\text{C}$

The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$

3. 电缆导体的长期允许工作温度:  $\leq 90^{\circ}\text{C}$

Maximum conductor temperature in normal operation:  $\leq 90^{\circ}\text{C}$

4. 短路时(最长持续时间不超过5s)电缆的最高工作温度:  $250^{\circ}\text{C}$

Max operating temperature of con. when cable short-circuited(5s maximum duration):  $250^{\circ}\text{C}$

5. 电缆的允许弯曲半径:

Permissible bending radius

单芯电缆:  $[20(D+d) \pm 5\%]$ , mm

Single cable:  $[20(D+d) \pm 5\%]$ , mm

多芯电缆:  $[15(D+d) \pm 5\%]$ , mm

D———电缆的实际外径, mm

Actual overall diameter, mm

d———电缆导体的实际外径, mm

Actual diameter of Con, mm



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

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

表1 单芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 1 Structure and weight of single-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
25	6.0	4.5	1.7	23	729	672	574	517
35	7.0	4.5	1.7	24	848	787	633	572
50	8.1	4.5	1.8	25	1008	940	717	649
70	9.9	4.5	1.8	27	1252	1180	832	759
95	11.5	4.5	1.9	29	1554	1473	970	889
120	12.9	4.5	1.9	30	1820	1734	1084	998
150	14.3	4.5	2.0	32	2129	2034	1221	1126
185	16.0	4.5	2.0	36	2514	2414	1378	1277
240	18.4	4.5	2.1	36	3124	3010	1631	1517
300	20.6	4.5	2.2	39	3770	3643	1896	1768
400	23.3	4.5	2.3	42	4634	4491	2237	2094
500	26.7	4.5	2.4	45	5736	5574	2657	2494
630	30.4	4.5	2.5	49	7187	7002	3204	3019

表2 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 2 Structure and weight of three-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径m Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
25	6.0	4.5	2.4	47	2367	2211	1893	1736
35	7.0	4.5	2.5	49	2791	2620	2133	1962
50	8.1	4.5	2.6	52	3307	3120	2417	2229
70	9.9	4.5	2.7	56	4136	3926	2850	2640
95	11.5	4.5	2.8	59	5072	4839	3285	3053
120	12.9	4.5	2.9	62	5941	5686	3687	3433
150	14.3	4.5	3.1	66	6936	6649	4156	3869
185	16.0	4.5	3.2	70	8233	7920	4755	4441
240	18.4	4.5	3.3	75	10124	9774	5556	5206
300	20.6	4.5	3.5	80	12256	11861	6521	6125
400	23.3	4.5	3.7	87	15030	14578	7695	7243

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表3 三芯交联聚乙烯绝缘钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 3 Structure and weight of three-core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	4.5	1.4	0.5	2.5	52	3164	3343	3139	2868
35	7.0	4.5	1.4	0.5	2.6	54	4091	3800	3433	3142
50	8.1	4.5	1.5	0.5	2.7	58	4715	4391	3824	3501
70	9.9	4.5	1.6	0.5	2.9	62	5703	5329	4417	4043
95	11.5	4.5	1.6	0.5	3.0	66	6728	6323	4941	4536
120	12.9	4.5	1.7	0.5	3.1	69	7716	7270	5463	5017
150	14.3	4.5	1.8	0.5	3.2	72	8859	8370	6079	5590
185	16.0	4.5	1.8	0.5	3.3	76	10257	9731	6779	6253
240	18.4	4.5	1.9	0.5	3.5	82	12371	11769	7803	7201
300	20.6	4.5	2.0	0.8	3.7	88	15622	14885	9880	9149
400	23.3	4.5	2.1	0.8	4.0	95	18724	17935	11389	10600

表4 单芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 4 Structure and weight of single-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	4.5	1.2	1.6	1.8	29	1612	1499	1456	1344
35	7.0	4.5	1.2	1.6	1.9	30	1768	1651	1553	1436
50	8.1	4.5	1.2	1.6	1.9	31	1969	1842	1678	1551
70	9.9	4.5	1.2	1.6	2.0	33	2110	1972	1689	1552
95	11.5	4.5	1.2	2.0	2.1	36	2882	2732	2298	2148
120	12.9	4.5	1.2	2.0	2.1	37	3207	3050	2470	2313
150	14.3	4.5	1.2	2.0	2.2	39	3577	3407	2668	2499
185	16.0	4.5	1.2	2.0	2.2	40	4048	3869	2911	2733
240	18.4	4.5	1.2	2.0	2.3	43	4749	4552	3256	3059
300	20.6	4.5	1.3	2.5	2.4	47	5933	5709	4059	3834
400	23.3	4.5	1.3	2.5	2.5	50	6935	6688	4538	4291
500	26.7	4.5	1.4	2.5	2.6	53	8240	7959	5160	4880
600	30.4	4.5	1.5	2.5	2.7	57	9962	9636	5980	5653



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表5 三芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 5 Structure and weight of three-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
25	6.0	4.5	1.4	2.5	2.6	54	4966	4674	4492	4199
35	7.0	4.5	1.4	2.5	2.7	56	5488	5157	4830	4517
50	8.1	4.5	1.5	2.5	2.9	59	6170	5825	5279	4934
70	9.9	4.5	1.6	2.5	3.0	63	7378	7006	6092	5720
95	11.5	4.5	1.6	2.5	3.1	67	8386	7964	6599	6178
120	12.9	4.5	1.7	2.5	3.2	70	9473	9010	7220	6757
150	14.3	4.5	1.8	3.15	3.4	75	11565	11042	8785	8262
185	16.0	4.5	1.8	3.15	3.5	79	13090	12527	9612	9049
240	18.4	4.5	1.9	3.15	3.6	85	15421	15224	10853	10656
300	20.6	4.5	1.9	3.15	3.8	90	17964	17191	12228	11455
400	23.3	4.5	2.1	3.15	4.1	97	21228	20418	13894	13083

表6 三芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 6 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	4.5	2.0	4.0	2.1	36	3099	2932	2944	2777
35	7.0	4.5	2.0	4.0	2.1	37	3330	3156	3115	2941
50	8.1	4.5	2.0	4.0	2.1	38	3608	3422	3316	3130
70	9.9	4.5	2.0	4.0	2.2	40	3972	3775	3552	3354
95	11.5	4.5	2.0	4.0	2.3	42	4397	4183	3813	3600
120	12.9	4.5	2.0	4.0	2.3	43	4779	4557	4042	3820
150	14.3	4.5	2.0	4.0	2.4	45	5208	4971	4300	4062
185	16.0	4.5	2.0	4.0	2.4	46	5814	5566	4678	4429
240	18.4	4.5	2.0	4.0	2.5	49	6656	6385	5163	4892
300	20.6	4.5	2.0	4.0	2.6	51	7430	7173	5556	5262
400	23.3	4.5	2.0	4.0	2.7	54	8529	8209	6132	5812
500	26.7	4.5	2.0	4.0	2.8	58	9975	9623	6895	6543
630	30.4	4.5	2.0	4.0	2.9	62	11772	11385	7789	7402

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表7 三芯交联聚乙烯绝缘聚粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 7 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	4.5	2.0	4.0	2.8	58	6632	6278	6157	5804
35	7.0	4.5	2.0	4.0	2.9	61	7287	6909	6629	6251
50	8.1	4.5	2.0	4.0	3.0	63	7936	7532	7045	6641
70	9.9	4.5	2.0	4.0	3.1	67	9118	8675	7832	7389
95	11.5	4.5	2.0	4.0	3.2	71	10432	9942	8645	8156
120	12.9	4.5	2.0	4.0	3.3	74	11545	11020	9292	8767
150	14.3	4.5	2.0	4.0	3.4	77	12855	12295	10075	9515
185	16.0	4.5	2.0	4.0	3.5	81	14400	13798	10922	10320
240	18.4	4.5	2.0	4.0	3.7	87	16797	16127	12229	11559
300	20.6	4.5	2.0	4.0	3.9	92	19370	18588	13634	12852
400	23.3	4.5	2.1	4.0	4.1	98	22708	21872	15373	14537

注：\* 单芯铠装电缆仅用于直流系统，若用交流系统，应采用非磁性材料的铠装层或采用隔磁措施。

The single core armored cables are used for D.C. system only. As for A.C. system, the magnetic isolation should be applied on the steel armored wires of non-magnetic materials should be used.

\*导体外径仅供参考。

Annotation: Diameters of conductors are only used to refer.









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Power cables with XLPE

交联聚乙烯绝缘电力电缆允许持续载流量 Allowed current-ratings of XLPE insulated power cable

表8.7/10kV(8.7/15kV)交联聚乙烯绝缘电力电缆允许持续载流量(A)  
Table 8 Allowed current-ratings of XLPE insulated power cable for rated voltages up to 8.7/10kV(8.7/15kV)(A)

型号 Type	YJV.YJLV.YJV22.YJLV22.YJV.YJLY. YJV23.YJLV23.YJV32.YJLV32.YJV33. YJLV33.YJV42.YJLV42.YJV43.YJLV43				YJV.YJLV.YJV22.YJLV22.YJV.YJLY. YJV23.YJLV23.YJV32.YJLV32.YJV33. YJLV33.YJV42.YJLV42.YJV43.YJLV43								
	三芯 Three-core				单芯 Single-core								
敷设 Installation	①空气中 In the air		②土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$		空气中 In the air				土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$				
													
单芯电缆排列方式 Arrangement of single cable													
线芯材质 Material of con.	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	
标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	25	134	104	154	120	140	110	165	130	150	115	160	120
	35	161	125	184	143	170	135	205	155	180	135	190	145
	50	192	149	217	168	205	160	245	190	215	160	225	175
	70	239	185	266	206	260	200	305	235	265	200	275	215
	95	289	224	318	246	315	245	370	290	315	240	330	255
	120	331	257	360	280	360	280	430	335	360	270	375	290
	150	374	290	404	313	410	320	490	380	405	305	425	330
	185	427	332	456	355	470	365	560	435	455	345	480	370
	240	502	391	529	411	555	435	665	515	530	400	555	435
	300	573	446	597	465	640	500	765	595	595	455	630	490
	400	660	517	678	532	745	585	890	695	680	520	725	565
	500	...	...	...	...	855	680	1030	810	765	595	825	650
630	...	...	...	...	980	790	1190	950	860	680	940	745	
环境温度°C Environmental temp.°C	40		25		40				25				
线芯最高 工作温度°C Max operating temp.of con.°C	90												

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 0.6/1kV交联聚乙烯绝缘电力电缆 XLPE insulated power cables for rated voltages up to 0.6/1kV

#### 产品简介 Introduction

0.6/1kV交联聚乙烯绝缘电力电缆适用于交流50Hz额定电压0.6/1kV及其以下的配电线路。电缆的机械物理性能及电性能符合国家标准GB/T12706-2002《额定电压1kV (Um=1.2kV)到35kV (Um=40.5kV)挤包绝缘电力电缆及附件》和国际标准IEC 60502-1997《额定电压1~30kV挤包绝缘电力电缆及附件》。

XLPE insulated power cables for rated voltages up to 6/1kV are fit for AC 50Hz distribution lines for the same rated voltages. The mechanical and electrical properties of these cables are accordant with GB/T12706-2002《Power cables extruded insulation and their accessories of rated voltages 1kV(Um=1.2kV) up to 35kV(Um=40.5kV)》 and IEC-60502-1997《Extruded insulation power cables and appendites for rated voltages 1kV up to 30kV》

#### 使用特性 Instruction of application

1. 额定电压: 0.6/1kV

Rated voltages: 0.6/1kV

2. 电缆的敷设温度:  $\geq 0^{\circ}\text{C}$

The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$

3. 电缆导体的长期允许工作温度:  $\leq 90^{\circ}\text{C}$

Maximum conductor temperature in normal operation:  $\leq 90^{\circ}\text{C}$

4. 短路时(最长持续时间不超过5s)电缆的最高工作温度:  $250^{\circ}\text{C}$

Max operating temperature of con. when cable short-circuited(5s maximum duration):  $250^{\circ}\text{C}$

5. 电缆的允许弯曲半径:

Permissible bending radius:

单芯电缆:  $[20(D+d) \pm 5\%]$ , mm

Single cable:  $[20(D+d) \pm 5\%]$ , mm

多芯电缆:  $[15(D+d) \pm 5\%]$ , mm

Multi cable:  $[15(D+d) \pm 5\%]$ , mm

D———电缆的实际外径, mm

Actual overall diameter, mm

d———电缆导体的实际外径, mm

Actual diameter of Con, mm



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## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

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

表1 单芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量

Table 1 Structure and weight of single-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
1.5	1.38	0.7	1.4	6	47	37	38	28
2.5	1.78	0.7	1.4	6	59	49	44	33
4	2.25	0.7	1.4	7	77	65	52	40
6	2.76	0.7	1.4	7	99	86	62	49
10	4.05	0.7	1.4	8	147	131	84	68
16	5.10	0.7	1.4	9	209	191	109	91
25	6.0	0.9	1.4	11	304	283	149	127
35	7.0	0.9	1.4	12	400	377	184	160
50	8.1	1.0	1.4	13	524	498	232	205
70	9.9	1.1	1.4	15	732	701	310	279
95	11.5	1.1	1.5	17	991	953	404	367
120	12.9	1.2	1.5	18	1230	1189	490	449
150	14.3	1.4	1.6	20	1516	1467	603	554
185	16.0	1.6	1.7	23	1890	1832	748	690
240	18.4	1.7	1.8	26	2454	2384	954	884
300	20.6	1.8	1.8	28	3041	2965	1157	1081
400	23.3	2.0	2.0	32	3888	3789	1478	1379
500	26.7	2.2	2.1	36	4959	4850	1874	1755
630	30.4	2.4	2.2	40	6348	6242	2382	2240

表2 两芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量

Table 2 Structure and weight of two-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
1.5	1.38	0.7	1.8	10	105	84	86	62
2.5	1.78	0.7	1.8	10	134	111	102	79
4	2.25	0.7	1.8	11	173	148	123	98
6	2.76	0.7	1.8	12	226	198	150	122
10	4.05	0.7	1.8	15	342	307	214	178
16	5.10	0.7	1.8	17	488	448	285	244
25	6.0	0.9	1.8	21	711	663	393	345
35	7.0	0.9	1.8	23	927	873	486	433
50	(5.41)	1.0	1.8	21	1096	1045	499	448
70	(6.58)	1.1	1.8	23	1518	1460	657	598
95	(7.77)	1.1	2.0	27	2061	1987	864	791
120	(8.75)	1.2	2.1	29	2567	2483	1058	937
150	(9.71)	1.4	2.2	32	3155	3057	1292	1194
185	(10.97)	1.6	2.3	36	3913	3799	1583	1469

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表3 三芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 3 Structure and weight of three-core XLPE insulated PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
1.5	1.38	0.7	1.8	10	127	105	99	77
2.5	1.78	0.7	1.8	11	167	143	120	96
4	2.25	0.7	1.8	12	221	194	145	118
6	2.76	0.7	1.8	13	293	263	179	149
10	4.05	0.7	1.8	16	445	408	253	215
16	5.10	0.7	1.8	18	647	604	342	299
25	6.0	0.9	1.8	22	959	908	482	431
35	7.0	0.9	1.8	24	1274	1217	613	556
50	(6.81)	1.0	1.8	24	1590	1530	695	634
70	(8.23)	1.1	1.8	28	2228	2154	935	861
95	(9.71)	1.1	2.0	31	3015	2927	1220	1132
120	(10.95)	1.2	2.1	34	3763	3661	1497	1396
150	(12.16)	1.4	2.3	38	4965	4533	1861	1738
185	(13.61)	1.6	2.4	42	5778	5636	2281	2138
240	(15.65)	1.7	2.6	47	7513	7339	2920	2746
300	(17.53)	1.8	2.8	52	9409	9202	3642	3535

表4 三+一芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 4 Structure and weight of (3+1) XLPE insulated PVC/PE sheathed power

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)					YJV	YJY	YJLV	YJLY
4	25	2.25	0.7	1.8	13	258	229	166	137
6	4	2.76	0.7	1.8	14	344	312	205	173
10	6	4.05	0.7	1.8	17	516	476	285	246
16	10	5.10	0.7	1.8	19	765	719	396	350
25	16	6.0	0.9	1.8	23	1134	1079	556	501
35	16	7.0	0.9	1.8	25	1431	1371	668	608
50	25	(7.15)	1.0	1.8	27	1863	1803	809	742
70	35	(9.06)	1.1	1.9	30	2604	2523	1090	1009
95	50	(10.68)	1.1	2.1	35	3527	3425	1433	1331
120	70	(12.25)	1.2	2.2	38	4489	4371	1794	1676
150	70	(13.35)	1.4	2.3	42	5362	5227	2136	2001
185	95	(15.04)	1.6	2.5	47	6770	6605	2674	2509
240	120	(17.21)	1.7	2.7	52	8743	8545	3395	3197
300	120	(19.29)	1.8	2.9	57	10878	10643	4180	3945



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表5 四芯交联聚乙烯绝缘聚细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 5 Structure and weight of four-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
1.5	1.38	0.7	1.8	11	154	130	117	93
2.5	1.78	0.7	1.8	12	204	177	142	109
4	2.25	0.7	1.8	13	274	245	175	146
6	2.76	0.7	1.8	14	363	330	214	181
10	4.05	0.7	1.8	17	559	518	307	266
16	5.10	0.7	1.8	20	815	767	416	368
25	6.0	0.9	1.8	25	1208	1151	585	528
35	7.0	0.9	1.8	27	1612	1549	747	684
50	(7.77)	1.0	1.9	28	2057	1983	886	812
70	(9.36)	1.1	2.0	32	2883	2794	1193	1104
95	(11.03)	1.1	2.1	36	3914	3808	1567	1461
120	(12.55)	1.2	2.3	39	4902	4775	1941	1814
150	(15.94)	1.4	2.4	44	6033	5886	2380	2233
185	(15.59)	1.6	2.6	48	7526	7348	2955	2777
240	(17.60)	1.7	2.8	54	9781	9565	3778	3562
300	(19.96)	1.8	3.0	60	12184	11929	4646	4391

表6 三+二芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 6 Structure and weight of (3+2) XLPE insulated PVC/PE sheathed power

标称截面mm <sup>2</sup> Normal cross-sectional area of conductormm <sup>2</sup>		导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径m mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)					YJV	YJY	YJLV	YJLY
4	2.5	2.25	0.7	1.8	13	294	263	187	156
6	4	2.76	0.7	1.8	15	399	364	234	199
10	6	4.05	0.7	1.8	17	589	547	320	278
16	10	5.10	0.7	1.8	21	879	829	446	396
25	16	6.0	0.9	1.8	24	1313	1254	633	574
35	16	7.0	0.9	1.8	26	1607	1573	742	678
50	25	8.1	1.0	1.9	30	2243	2162	1029	948
70	35	9.9	1.1	2.0	35	3126	3028	1392	1294
95	50	11.5	1.1	2.2	39	4207	4085	1814	1692
120	70	12.9	1.2	2.3	44	5303	5159	2176	2032
150	70	14.3	1.4	2.4	48	6209	6047	2552	2390
185	95	16.0	1.6	2.6	53	7898	7701	3204	3007
240	120	18.4	1.7	2.8	60	10188	9949	4086	3847
300	150	20.6	1.8	3.0	66	12675	12392	5045	4762

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表7 四+一芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 7 Structure and weight of three-core XLPE insulated PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductormm <sup>2</sup>		导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)					YJV	YJY	YJLV	YJLY
4	25	2.25	0.7	1.8	14	313	281	197	165
6	4	2.76	0.7	1.8	15	448	413	271	236
10	6	4.05	0.7	1.8	18	656	612	361	317
16	10	5.10	0.7	1.8	21	946	894	475	423
25	16	6.0	0.9	1.8	25	1408	1347	670	609
35	16	7.0	0.9	1.8	27	1807	1740	823	756
50	25	8.1	1.0	1.9	32	2479	2395	1127	1043
70	35	9.9	1.1	2.1	37	3483	3374	1539	1430
95	50	11.5	1.1	2.2	41	4677	4549	1986	1858
120	70	12.9	1.2	2.4	46	5791	5815	2522	2366
150	70	14.3	1.4	2.5	50	7021	6843	2865	2687
185	95	16.0	1.6	2.7	56	8858	8643	3599	3384
240	120	18.4	1.7	2.9	63	11473	11212	4598	4337
300	150	20.6	1.8	3.1	70	14275	13967	5659	5351

表8 五芯交联聚乙烯绝缘聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 8 Structure and weight of five-core XLPE insulated thick PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
					YJV	YJY	YJLV	YJLY
4	2.25	0.7	1.8	14	332	300	206	174
6	2.76	0.7	1.8	15	446	410	256	220
10	4.05	0.7	1.8	19	691	646	370	325
16	5.10	0.7	1.8	22	1007	954	499	446
25	6.0	0.9	1.8	25	1504	1441	710	635
35	7.0	0.9	1.8	28	2007	1937	905	817
50	8.1	1.0	2.0	33	2726	2634	1234	1142
70	9.9	1.1	2.1	37	3823	3712	1669	1558
95	11.5	1.1	2.3	43	5190	5050	2199	2059
120	12.9	1.2	2.4	48	6349	6187	2575	2413
150	14.3	1.4	2.6	53	7869	7673	3213	3017
185	16.0	1.6	2.8	59	9788	9552	3962	3726
240	18.4	1.7	3.0	67	12849	12564	5198	4913
300	20.6	1.8	3.2	74	15920	15584	6314	5978



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表9 两芯交联聚乙烯绝缘聚钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 9 Structure and weight of two-core XLPE insulated steel tape armored PVC/PE sheathed power

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
4	2.25	0.7	1.2	0.2	1.8	15	324	290	274	240
6	2.76	0.7	1.2	0.2	1.8	16	390	353	314	277
10	4.05	0.7	1.2	0.2	1.8	18	524	480	396	352
16	5.10	0.7	1.2	0.2	1.8	20	694	645	490	441
25	6.0	0.9	1.2	0.2	1.8	24	978	922	645	589
35	7.0	0.9	1.2	0.2	1.8	26	1222	1160	782	720
50	(5.41)	1.0	1.2	0.2	1.8	24	1372	1312	775	715
70	(6.58)	1.1	1.2	0.5	2.0	28	2124	2761	1263	1185
95	(7.77)	1.1	1.2	0.5	2.1	31	2728	2637	1532	1441
120	(8.75)	1.2	1.2	0.5	2.2	34	3292	3189	1783	1680
150	(9.71)	1.4	1.3	0.5	2.4	37	3975	3851	2113	1989
185	(10.97)	1.6	1.3	0.5	2.5	41	4838	4696	2508	2366

表10 三芯交联聚乙烯绝缘聚钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 10 Structure and weight of three-core XLPE insulated steel tape armored PVC/PE sheathed power

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
4	2.25	0.7	1.2	0.2	1.8	15	379	344	303	268
6	2.76	0.7	1.2	0.2	1.8	16	466	428	352	314
10	4.05	0.7	1.2	0.2	1.8	19	655	609	462	416
16	5.10	0.7	1.2	0.2	1.8	21	887	835	582	530
25	6.0	0.9	1.2	0.2	1.8	25	1243	1183	766	706
35	7.0	0.9	1.2	0.2	1.8	28	1588	1523	927	862
50	(6.81)	1.0	1.2	0.2	1.9	28	1923	1850	1027	954
70	(8.23)	1.1	1.2	0.5	2.0	33	2929	2838	1636	1545
95	(9.71)	1.1	1.2	0.5	2.2	36	3822	3710	2026	1910
120	(10.95)	1.2	1.3	0.5	2.3	39	4659	4532	2394	2267
150	(12.16)	1.4	1.3	0.5	2.4	43	5627	5482	2832	2687
185	(13.61)	1.6	1.4	0.5	2.6	48	6897	6723	3400	3226
240	(15.65)	1.7	1.5	0.5	2.8	53	8788	8579	4195	3986
300	(17.53)	1.8	1.5	0.5	2.9	58	10757	10550	5020	4738



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表11三+一芯交联聚乙烯绝缘聚钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 11 Structure and weight of (3+1)core XLPE insulated steel tape armored PVC/PE sheathed power

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢带厚度mm Thickness of steel tape mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV22	YJV23	YJLV22	YJLV23
4	2.5	2.25	0.7	1.2	0.2	1.8	16	425	388	333	296
6	4	2.76	0.7	1.2	0.2	1.8	17	527	486	388	347
10	6	4.05	0.7	1.2	0.2	1.8	20	734	686	503	455
16	10	5.10	0.7	1.2	0.2	1.8	23	1019	964	650	595
25	16	6.0	0.9	1.2	0.2	1.8	26	1434	1371	856	793
35	16	7.0	0.9	1.2	0.2	1.8	28	1757	1689	994	926
50	25	(7.51)	1.0	1.2	0.2	1.9	30	2229	2149	1175	1095
70	35	(9.06)	1.1	1.2	0.2	2.1	35	3386	3282	1872	1768
95	50	(10.68)	1.1	1.2	0.2	2.2	39	4397	4275	2303	2181
120	70	(12.25)	1.2	1.3	0.2	2.3	43	5468	5328	2772	2632
150	70	(13.55)	1.4	1.4	0.5	2.5	47	6464	6299	3238	3073
185	95	(15.04)	1.6	1.5	0.5	2.6	52	8004	7813	3908	3717
240	120	(17.21)	1.7	1.6	0.5	2.8	57	10140	9912	4792	4564
300	150	(19.29)	1.8	1.7	0.5	3.0	63	12445	12177	5747	5479

表12四芯交联聚乙烯绝缘聚钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 12 Structure and weight of four-core XLPE insulated steel tape armored PVC/PE sheathed power

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径mm Overall diameter of conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
4	2.25	0.7	1.2	0.2	1.8	16	446	407	408	370
6	2.76	0.7	1.2	0.2	1.8	17	550	509	488	447
10	4.05	0.7	1.2	0.2	1.8	21	787	737	688	638
16	5.10	0.7	1.2	0.2	1.8	23	1076	1019	927	870
25	6.0	0.9	1.2	0.2	1.8	27	1519	1454	1267	1202
35	7.0	0.9	1.2	0.2	1.8	30	1957	1885	1558	1486
50	(7.77)	1.0	1.2	0.5	2.0	33	2759	2668	2136	2045
70	(9.36)	1.1	1.2	0.5	2.1	36	3678	3571	2485	2353
95	(11.03)	1.1	1.2	0.5	2.3	41	4832	4700	2813	2706
120	(12.55)	1.2	1.3	0.5	2.4	44	5906	5756	2945	2813
150	(13.94)	1.4	1.4	0.5	2.4	49	7186	7007	3533	3354
185	(15.59)	1.6	1.5	0.5	2.7	54	8807	8602	4236	4031
240	(17.60)	1.7	1.6	0.5	3.0	60	11268	11013	5625	5010
300	(19.96)	1.8	1.7	0.5	3.1	66	13824	13534	6286	5996





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表13 三+二芯交联聚乙烯绝缘钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 13 Structure and weight of (3+2)core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line (or grounded line)							YJV22	YJY23	YJLV22	YJLY23
4	2.5	2.25	0.7	1.2	0.2	1.8	17	463	423	356	316
6	4	2.76	0.7	1.2	0.2	1.8	18	584	541	420	376
10	6	4.05	0.7	1.2	0.2	1.8	21	806	756	538	487
16	10	5.10	0.7	1.2	0.2	1.8	24	1136	1077	702	644
25	16	6.0	0.9	1.2	0.2	1.8	27	1610	1542	930	852
35	16	7.0	0.9	1.2	0.2	1.8	29	1926	1853	1061	988
50	25	8.1	1.0	1.2	0.5	2.0	35	2983	2885	1770	1672
70	35	9.9	1.1	1.2	0.5	2.1	40	3979	3861	2244	2127
95	50	11.5	1.1	1.2	0.5	2.3	44	5162	5018	2769	2626
120	70	12.9	1.2	1.3	0.5	2.4	49	6397	6229	3269	3102
150	70	14.3	1.4	1.4	0.5	2.5	53	7409	7221	3752	3564
185	95	16.0	1.6	1.5	0.5	2.7	59	9259	9034	4565	4339
240	120	18.4	1.7	1.6	0.5	2.9	65	11737	11467	5635	5365
300	150	20.6	1.8	1.7	0.5	3.1	72	14413	14095	6783	6465

表14 四+一芯交联聚乙烯绝缘钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 14 Structure and weight of (4+1)core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line (or grounded line)							YJV22	YJY23	YJLV22	YJLY23
4	2.5	2.25	0.7	1.2	0.2	1.8	17	485	445	368	328
6	4	2.76	0.7	1.2	0.2	1.8	18	637	593	460	426
10	6	4.05	0.7	1.2	0.2	1.8	21	882	830	588	535
16	10	5.10	0.7	1.2	0.2	1.8	24	1208	1148	738	677
25	16	6.0	0.9	1.2	0.2	1.8	28	1713	1643	976	906
35	16	7.0	0.9	1.2	0.2	1.8	30	2152	2072	1169	1089
50	25	8.1	1.0	1.2	0.5	2.1	36	3263	3156	1191	1804
70	35	9.9	1.1	1.2	0.5	2.2	41	4367	4248	2432	2304
95	50	11.5	1.1	1.3	0.5	2.3	46	5695	5545	3004	2854
120	70	12.9	1.2	1.4	0.5	2.5	51	7129	6947	3679	3498
150	70	14.3	1.4	1.4	0.5	2.6	55	8282	8077	4126	3922
185	95	16.0	1.6	1.5	0.5	2.8	61	10287	10043	5029	4784
240	120	18.4	1.7	1.6	0.5	3.1	69	13163	12759	6288	5983
300	150	20.6	1.8	1.8	0.5	3.3	76	16169	15812	7552	7195



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表15 五芯交联聚乙烯绝缘聚钢带铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 15 Structure and weight of five-core XLPE insulated steel tape armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢带厚度 mm Thickness of steel tape mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
4	2.25	0.7	1.2	0.2	1.8	17	507	466	380	339
6	2.76	0.7	1.2	0.2	1.8	19	638	593	448	403
10	4.05	0.7	1.2	0.2	1.8	22	926	871	605	551
16	5.10	0.7	1.2	0.2	1.8	25	1277	1215	769	707
25	6.0	0.9	1.2	0.5	1.8	28	1817	1746	1023	952
35	7.0	0.9	1.2	0.5	2.0	33	2705	2613	1603	1511
50	8.1	1.0	1.2	0.5	2.1	37	3525	3414	2033	1923
70	9.9	1.1	1.2	0.5	2.2	42	4732	4601	2578	2447
95	11.5	1.1	1.3	0.5	2.4	48	6256	6093	3265	3101
120	12.9	1.2	1.4	0.5	2.6	53	7571	7376	3797	3602
150	14.3	1.4	1.5	0.5	2.7	58	9221	8997	4565	4341
185	16.0	1.6	1.6	0.5	2.9	65	11319	11052	5494	5227
240	18.4	1.7	1.7	0.5	3.2	73	14631	14300	6981	6650
300	20.6	1.8	1.9	0.5	3.4	80	17948	17560	8341	79540

表16 单芯交联聚乙烯绝缘聚细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 16 Structure and weight of single-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV22	YJV23	YJLV22	YJLV23
25	6.0	0.9	1.2	0.8	1.8	16	575	519	420	364
35	7.0	0.9	1.2	0.8	1.8	17	694	634	479	419
50	8.1	1.0	1.2	0.8	1.8	18	848	782	557	491
70	9.9	1.1	1.2	0.8	1.8	20	1103	1028	683	608
95	11.5	1.1	1.2	1.6	1.8	24	1681	1594	1097	1010
120	12.9	1.2	1.2	1.6	1.8	25	1981	1886	1245	1150
150	14.3	1.4	1.2	1.6	1.8	27	2334	2231	1426	1322
185	16.0	1.6	1.2	1.6	1.9	29	2789	2671	1652	1535
240	18.4	1.7	1.2	1.6	2.0	32	3437	3302	1944	1809
300	20.6	1.8	1.2	2.0	2.1	35	4377	4222	2503	2347
400	23.3	2.0	1.2	2.0	2.2	39	5257	5080	2860	2683
500	26.7	2.2	1.2	2.0	2.3	43	6594	6390	3514	3310
630	30.4	2.4	1.3	2.5	2.5	49	8626	8374	4643	4391



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表17两芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 17 Structure and weight of two-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
4	2.25	0.7	1.2	0.8	1.8	15	415	379	373	337
6	2.76	0.7	1.2	0.8	1.8	16	484	445	416	377
10	4.05	0.7	1.2	0.8	1.8	19	647	601	519	473
16	5.10	0.7	1.2	1.6	1.8	23	1123	1067	919	863
25	6.0	0.9	1.2	1.6	1.8	26	1462	1399	1129	1066
35	7.0	0.9	1.2	1.6	1.8	27	1766	1694	1289	1254
50	(5.41)	1.0	1.2	1.6	1.9	25	1886	1820	1326	1223
70	(6.58)	1.1	1.2	2.0	2.1	28	2418	2340	1557	1479
95	(7.77)	1.1	1.2	2.0	2.2	32	3050	2960	1854	1106
120	(8.75)	1.2	1.2	2.0	2.3	33	3865	3766	2356	2257
150	(9.71)	1.4	1.3	2.5	2.5	36	4617	4497	2755	2635
185	(10.97)	1.6	1.4	2.5	2.6	44	5540	5403	3210	3073

表18三芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 18 Structure and weight of three-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
4	2.25	0.7	1.2	0.8	1.8	16	476	438	400	289
6	2.76	0.7	1.2	0.8	1.8	17	571	530	457	416
10	4.05	0.7	1.2	0.8	1.8	20	784	736	591	543
16	5.10	0.7	1.2	1.6	1.8	24	1341	1283	1036	978
25	6.0	0.9	1.2	1.6	1.8	28	1750	1684	1273	1207
35	7.0	0.9	1.2	1.6	1.8	30	2154	2078	1493	1417
50	(6.81)	1.0	1.2	2.0	2.0	30	2527	2447	1631	1551
70	(8.23)	1.1	1.2	2.0	2.1	35	3537	3435	2244	2142
95	(9.71)	1.1	1.2	2.0	2.2	38	4477	4358	2681	2562
120	(10.95)	1.2	1.3	2.0	2.4	42	5388	5254	3123	2989
150	(12.16)	1.4	1.3	2.5	2.5	46	6818	6662	4023	3867
185	(13.61)	1.6	1.4	2.5	2.7	51	8213	8027	4716	4530
240	(15.65)	1.7	1.5	2.5	2.9	56	10252	10030	5659	5437
300	(17.53)	1.8	1.5	2.5	3.0	58	12338	12097	6571	6330



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表19三+一芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 19 Structure and weight of (3+1)core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductormm <sup>2</sup>		主导体外径 (扇形高度) mm Overall diameter of primary conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV32	YJV33	YJLV32	YJLV33
4	2.5	2.25	0.7	1.2	0.8	1.8	17	529	489	437	397
6	4	2.76	0.7	1.2	0.8	1.8	18	638	595	499	456
10	6	4.05	0.7	1.2	0.8	1.8	21	1150	1096	919	865
16	10	5.10	0.7	1.2	1.6	1.8	25	1497	1436	1128	1067
25	16	6.0	0.9	1.2	1.6	1.8	29	1993	1919	1415	1341
35	16	7.0	0.9	1.2	1.6	1.9	31	2350	2271	1587	1508
50	25	(17.51)	1.0	1.2	1.6	2.0	33	3136	3042	2082	1988
70	35	(9.06)	1.1	1.2	2.0	2.1	37	4048	3932	2534	2418
95	50	(10.68)	1.1	1.2	2.0	2.3	42	5139	5004	3045	2910
120	70	(12.25)	1.2	1.3	2.5	2.4	46	6692	6528	3996	3832
150	70	(13.55)	1.4	1.4	2.5	2.6	50	7770	7586	4544	4360
185	95	(15.04)	1.6	1.5	2.5	2.7	55	9460	9249	5364	5153
240	120	(17.21)	1.7	1.6	2.5	2.9	61	11744	11495	6396	6147
300	150	(19.29)	1.8	1.7	2.5	3.1	65	10725	10443	4027	3745

表20 四芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 20 Structure and weight of four-core XLPE insulated thin steel wire tape armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
4	2.25	0.7	1.2	0.8	1.8	17	551	511	514	474
6	2.76	0.7	1.2	0.8	1.8	18	667	623	605	561
10	4.05	0.7	1.2	0.8	1.8	21	1214	1158	1115	1059
16	5.10	0.7	1.2	1.6	1.8	25	1556	1503	1417	1354
25	6.0	0.9	1.2	1.6	1.8	29	2088	2012	1839	1760
35	7.0	0.9	1.2	1.6	1.9	33	2825	2735	2426	2336
50	(7.77)	1.0	1.2	2.0	2.1	35	3365	3263	2742	2640
70	(9.36)	1.1	1.2	2.0	2.2	39	4372	4253	3238	3099
95	(11.03)	1.1	1.2	2.0	2.3	43	5585	5446	3507	3388
120	(12.55)	1.2	1.3	2.5	2.5	47	7134	6966	4173	4005
150	(13.94)	1.4	1.4	2.5	2.7	52	8516	8325	4863	4672
185	(15.59)	1.6	1.5	2.5	2.8	57	10313	10087	5742	5516
240	(17.60)	1.7	1.6	2.5	3.1	63	12924	12655	6921	6652
300	(19.96)	1.8	1.7	2.5	3.3	68	16488	16158	8950	8620



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表21三+二芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 21 Structure and weight of (3+2)core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductormm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV32	YJV33	YJLV32	YJLV33
4	25	2.25	0.7	1.2	0.8	1.8	17	574	532	467	425
6	4	2.76	0.7	1.2	0.8	1.8	19	705	660	541	496
10	6	4.05	0.7	1.2	0.8	1.8	21	1249	1192	981	924
16	10	5.10	0.7	1.2	1.6	1.8	25	1653	1588	1219	1154
25	16	6.0	0.9	1.2	1.6	1.8	29	2214	2135	1534	1455
35	16	7.0	0.9	1.2	1.6	1.9	31	2580	2492	1715	1627
50	25	8.1	1.0	1.2	1.6	2.0	36	3663	3548	2450	2335
70	35	9.9	1.1	1.2	2.0	2.2	42	4757	4621	3022	2886
95	50	11.5	1.1	1.2	2.0	2.4	46	6409	6241	4016	3848
120	70	12.9	1.2	1.3	2.0	2.5	51	7819	7617	4691	4489
150	70	14.3	1.4	1.4	2.5	2.7	56	8932	8708	5275	5051
185	95	16.0	1.6	1.5	2.5	2.8	62	10969	10704	6275	6010
240	120	18.4	1.7	1.6	2.5	3.0	69	13657	13343	7555	7241
300	150	20.6	1.8	1.7	2.5	3.2	74	16474	16184	8844	8554

表22四+一芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 22 Structure and weight of (4+1)core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductormm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV32	YJV33	YJLV32	YJLV33
4	25	2.25	0.7	1.2	0.8	1.8	18	625	583	508	466
6	4	2.76	0.7	1.2	0.8	1.8	19	760	714	583	537
10	6	4.05	0.7	1.2	1.6	1.8	24	1336	1277	1042	983
16	10	5.10	0.7	1.2	1.6	1.8	27	1738	1671	1268	1201
25	16	6.0	0.9	1.2	1.6	1.9	30	2328	2248	1591	1511
35	16	7.0	0.9	1.2	1.6	1.9	33	3060	2966	2077	1983
50	25	8.1	1.0	1.2	2.0	2.1	38	3932	3813	2580	2461
70	35	9.9	1.1	1.2	2.0	2.3	44	5177	5029	3233	3085
95	50	11.5	1.1	1.3	2.5	2.5	49	7027	6852	4336	4161
120	70	12.9	1.2	1.4	2.5	2.6	54	8577	8368	5127	4918
150	70	14.3	1.4	1.4	2.5	2.7	59	9844	9642	5728	5486
185	95	16.0	1.6	1.5	2.5	2.3	65	12072	11786	6814	6528
240	120	18.4	1.7	1.7	2.5	3.2	72	15958	15911	9083	8736
300	150	20.6	1.8	1.8	3.15	3.4	80	19269	18855	10652	10238

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表23 五芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 23 Structure and weight of five-core XLPE insulated thin steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	主导体外径 mm Overall diameter of primary conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV32	YJV33	YJLV32	YJLV33
	2.25	0.7	1.2	0.8	1.8	18	622	579	495	452
4	2.76	0.7	1.2	0.8	1.8	19	763	715	573	525
10	4.05	0.7	1.2	1.6	1.8	24	1391	1330	1070	1009
16	5.10	0.7	1.2	1.6	1.8	27	1819	1751	13114	1243
25	6.0	0.9	1.2	1.6	1.9	31	2444	2362	1650	1568
35	7.0	0.9	1.2	2.0	1.9	35	3308	3205	2206	2103
50	8.1	1.0	1.2	2.0	2.1	39	4223	4100	2731	2608
70	9.9	1.1	1.2	2.0	2.3	44	5931	5777	3777	2623
95	11.5	1.1	1.3	2.5	2.5	51	7636	7447	4645	4456
120	12.9	1.2	1.4	2.5	2.6	56	9071	8847	5297	5073
150	14.3	1.4	1.5	2.5	2.7	61	10909	10655	6253	5999
185	16.0	1.6	1.6	2.5	2.9	68	13212	12902	7387	7077
240	18.4	1.7	1.7	3.15	3.2	77	17657	17271	10007	9621
300	20.6	1.8	1.9	3.15	3.4	84	21236	20789	11629	11229

表24 两芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 24 Structure and weight of two-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	主导体外径 (扇形高度) mm Overall diameter of conductor mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	0.9	2.0	4.0	1.9	32	2711	2628	2394	2311
35	7.0	0.9	2.0	4.0	2.0	34	3164	3070	2725	2631
50	(5.41)	1.0	2.0	4.0	2.1	32	3220	3127	2626	2533
70	(6.58)	1.1	2.0	4.0	2.2	35	3888	3787	3030	2923
95	(7.77)	1.1	2.0	4.0	2.3	38	4657	4536	3466	3345
120	(8.75)	1.2	2.0	4.0	2.5	41	5294	5154	3791	3656
150	(9.71)	1.4	2.0	4.0	2.6	44	6137	5980	4283	4126
185	(10.97)	1.6	2.0	4.0	2.7	47	7244	7067	4924	4747



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表25 三芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 25 Structure and weight of three-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	主导体外径(扇形高度)mm Overall diameter of conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 Approx. weight kq/km			
							YJV42	YJY43	YJLV42	YJLY43
25	6.0	0.9	2.0	4.0	2.0	34	3087	2995	2621	2521
35	7.0	0.9	2.0	4.0	2.1	36	3627	3529	2969	2871
50	(6.81)	1.0	2.0	4.0	2.2	36	3953	3849	3062	2958
70	(8.23)	1.1	2.0	4.0	2.3	40	4953	4827	3666	3540
95	(9.71)	1.1	2.0	4.0	2.4	43	5978	5842	4191	4055
120	(10.95)	1.2	2.0	4.0	2.5	46	6971	6810	4716	4556
150	(12.16)	1.4	2.0	4.0	2.7	50	8216	8029	5435	5248
185	(13.61)	1.6	2.0	4.0	2.8	54	9691	9481	6211	6000
240	(15.65)	1.7	2.0	4.0	3.0	59	11792	11544	7222	6974
300	(17.53)	1.8	2.0	4.0	3.2	64	14049	13781	8310	8042

表26 三+一芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 26 Structure and weight of (3+1) core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 Approx. weight kq/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV32	YJY33	YJLV32	YJLY33
25	16	6.0	0.9	2.0	4.0	2.0	34	3362	3272	2786	2695
35	16	7.0	0.9	2.0	4.0	1.9	36	4070	3974	3310	3214
50	25	(7.51)	1.0	2.0	4.0	2.1	38	4442	4336	3393	3287
70	35	(9.06)	1.1	2.0	4.0	2.3	42	5522	5399	4015	3893
95	50	(10.68)	1.1	2.0	4.0	2.5	46	6787	6646	4073	4562
120	70	(12.25)	1.2	2.0	4.0	2.6	49	7989	7830	5306	5147
150	70	(13.35)	1.4	2.0	4.0	2.7	53	9453	9275	6242	6065
185	95	(15.04)	1.6	2.0	4.0	2.9	58	11388	11177	7312	7101
240	120	(17.21)	1.7	2.0	4.0	3.1	63	13381	13142	8059	7820
300	150	(19.29)	1.8	2.0	4.0	3.2	68	15883	15604	9217	8938

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

表27 四芯交联聚乙烯绝缘聚粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 27 Structure and weight of four-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径 (扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径 mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	0.9	2.0	4.0	2.0	35	3578	3481	2946	2848
35	7.0	0.9	2.0	4.0	2.1	38	4234	4124	3356	3246
50	(7.77)	1.0	2.0	4.0	2.3	40	4803	4683	3616	3493
70	(9.36)	1.1	2.0	4.0	2.4	43	5908	5764	4192	4048
95	(11.03)	1.1	2.0	4.0	2.5	48	7414	7248	5.31	4865
120	(12.55)	1.2	2.0	4.0	2.7	51	8668	8475	5662	5469
150	(13.94)	1.4	2.0	4.0	2.8	55	10172	9956	6464	6248
185	(15.59)	1.6	2.0	4.0	3.0	60	12058	11806	7418	7165
240	(17.60)	1.7	2.0	4.0	3.2	66	14832	14536	8738	8442
300	(19.96)	1.8	2.0	4.0	3.4	72	17755	17413	10103	9761

表28 三+二芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 28 Structure and weight of (3+2)core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		主导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line(or grounded line)							YJV42	YJV43	YJLV42	YJLV43
25	16	6.0	0.9	2.0	4.0	2.1	36	3972	3686	3115	3009
35	16	7.0	0.9	2.0	4.0	2.2	38	4206	4094	3345	3234
50	25	8.1	1.0	2.0	4.0	2.3	42	5108	5051	3972	3844
70	35	9.9	1.1	2.0	4.0	2.4	47	6440	6283	4712	4558
95	50	11.5	1.1	2.0	4.0	2.6	51	7857	7679	5476	5298
120	70	12.9	1.2	2.0	4.0	2.7	56	9212	9000	6100	5888
150	70	14.3	1.4	2.0	4.0	2.8	59	10589	10355	6949	6716
185	95	16.0	1.6	2.0	4.0	3.0	65	12751	12477	8080	7806
240	120	18.4	1.7	2.0	4.0	3.2	72	15524	15202	9451	9129
300	150	20.6	1.8	2.0	4.0	3.4	78	18594	18221	11001	10628





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表29 四+一芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 29 Structure and weight of (4+1) core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>		导体外径(扇形高度)mm Overall diameter of primary conductor mm	绝缘标称厚度mm Normal thickness of insulation mm	内衬层厚度mm mm thickness of inner covering mm	钢丝直径mm Diameter of steel wire mm	护套标称厚度mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
主导体 Primary conductor	中性线(接地线) Neutral line (or grounded line)							YJV42	YJV43	YJLV42	YJLV43
25	16	6.0	0.9	2.0	4.0	2.1	37	3893	3785	3159	3051
35	16	7.0	0.9	2.0	4.0	2.2	39	4536	4415	3557	3436
50	25	8.1	1.0	2.0	4.0	2.3	43	5446	5308	4100	3961
70	35	9.9	1.1	2.0	4.0	2.5	48	6899	6736	4964	4802
95	50	11.5	1.1	2.0	4.0	2.6	53	8471	8278	5791	5599
120	70	12.9	1.2	2.0	4.0	2.8	58	10204	9986	6770	6552
150	70	14.3	1.4	2.0	4.0	2.9	62	11634	11382	7497	7245
185	95	16.0	1.6	2.0	4.0	3.1	68	13948	13652	8712	8416
240	120	18.4	1.7	2.0	4.0	3.3	75	17152	16805	10307	9959
300	150	20.6	1.8	2.0	4.0	3.5	81	20439	20037	11860	11458

表30 五芯交联聚乙烯绝缘粗钢丝铠装聚氯乙烯/聚乙烯护套电力电缆结构尺寸及重量  
Table 30 Structure and weight of five-core XLPE insulated thick steel wire armored PVC/PE sheathed power cable

标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	导体外径(扇形高度) mm Overall diameter of conductor (high of sector) mm	绝缘标称厚度 mm Normal thickness of insulation mm	内衬层厚度 mm mm thickness of inner covering mm	钢丝直径 mm Diameter of steel wire mm	护套标称厚度 mm Normal thickness of sheath mm	电缆近似外径mm Approx. overall diameter mm	电缆近似重量 kg/km Approx. weight kg/km			
							YJV42	YJV43	YJLV42	YJLV43
25	6.0	0.9	2.0	4.0	2.1	38	4098	3988	3307	3197
35	7.0	0.9	2.0	4.0	2.2	41	4851	4726	3754	3629
50	8.1	1.0	2.0	4.0	2.4	44	5793	5651	4308	4166
70	9.9	1.1	2.0	4.0	2.5	50	7391	7215	5246	5071
95	11.5	1.1	2.0	4.0	2.7	55	9188	8989	6210	6011
120	12.9	1.2	2.0	4.0	2.8	59	10845	10612	7088	6855
150	14.3	1.4	2.0	4.0	3.0	65	12718	12445	8082	7810
185	16.0	1.6	2.0	4.0	3.2	71	15116	14798	9316	8997
240	18.4	1.7	2.0	4.0	3.4	78	18773	18398	11156	10781
300	20.6	1.8	2.0	4.0	3.6	85	22471	22026	12906	12461

## 交联聚乙烯绝缘电力电缆 Power cables with XLPE

### 交联聚乙烯绝缘电力电缆允许持续载流量 Allowed current-ratings of XLPE insulated power cable

表 31 0.6/1KV 交联聚乙烯绝缘电力电缆允许持续载流量 ( A )  
Table 31 Allowed current-ratings of XLPE insulated power cable for rated voltages up to 0.6/1kV(A)

型号 Type	YJV.YJLV.YJV22.YJLV22.YJV.YJLY.YJV23. YJLV23.YJV32.YJLV32.YJV33.YJLV33.YJV42. YJLV42.YJV43.YJLV43				YJV.YJLV.YJY.YJLY									
芯数 No.of cores	二芯、三芯、四芯、三 + 一芯、 三 + 二芯、四 + 一芯、五芯 2-core.3-core.4-core.(3+1)-core. (3+2)-core.(4+1)-core.5-core				单芯 Single-core									
敷设 Installation	空气中 In the air		土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$		空气中 In the air				土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$					
单芯电缆排列方式 Arrangement of single cable	空气中 In the air		土壤中 Under the ground $P_{\infty}=1.0k \cdot m/W$		○○○		○○○		○○○		○○○			
线芯材质 Material of con.	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al	铜 Cu	铝 Al		
标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>	1.5	20	17	31	26	22	32	25	33	27	35	29		
	2.5	27	21	41	32	26	42	33	43	32	46	36		
	4	35	28	53	42	34	44	35	56	44	59	47		
	6	45	36	66	54	44	56	45	70	57	74	60		
	10	63	49	90	69	56	69	59	97	75	99	76		
	16	84	65	117	91	77	91	78	125	99	128	99		
	25	113	88	151	117	100	117	100	165	125	155	115	164	128
	35	139	108	181	140	130	140	120	200	155	185	135	197	153
	50	161	125	210	163	160	163	150	245	190	220	165	232	180
	70	204	158	257	200	195	200	190	305	240	270	200	285	221
	95	252	195	310	240	245	240	230	375	290	320	240	342	265
	120	291	226	351	273	300	270	270	435	340	365	275	388	301
	150	333	258	393	305	350	310	310	500	390	410	310	436	338
	185	385	299	445	346	400	360	360	580	450	465	355	496	385
	240	457	356	516	402	465	430	430	685	535	540	410	577	449
	300	527	410	583	454	550	495	495	795	615	610	465	654	508
400	...	...	...	...	635	590	590	930	730	695	535	749	585	
500	...	...	...	...	745	685	685	1080	850	780	610	858	673	
630	...	...	...	...	860	800	800	1250	1000	880	695	981	774	
环境温度℃ Environmental temp.℃	40		25		40				25					
线芯最高 工作温度℃ Max operating temp.of con.℃	90													



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## 聚氯乙烯绝缘电力电缆 PVC insulated power cables

### 聚氯乙烯绝缘电力电缆 PVC insulated power cables

#### 电缆型号、名称及使用范围 Type、description and application of cable

型号 Type	名称 Description	使用范围 Application
VV VLV	聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulated PVC sheathed power cable	可敷设在室内、隧道及管道中、电缆不能承受压力和机械外力作用。 For laying in doors, inducts and in tunels, but unable to bear pulling force and pressure.
VV <sub>22</sub> VLV <sub>22</sub>	聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 PVC insulated steel tape armoured PVC sheathed power cable	敷设在室内、隧道及直埋土壤中，电缆能承受压力及其他外力作用。 For laying in doors, in tunels and direct in ground, able to bear pulling force and pressure.
VV <sub>32</sub> VLV <sub>32</sub>	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 PVC insulated fine steel wire armoured PVC sheathed power cable	敷设在室内，矿井中，水中，电缆能承受相当的拉力。 For laying in doors, in wells, under water, able to bear overtain axis pulling force.
VV <sub>42</sub> VLV <sub>42</sub>	聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 PVC insulated steel wire armoured PVC sheathed power cable	敷设在竖井，水下等垂直场合，能承受相当的轴向拉力。 For laying down wells and under water, able to bear certain pulling force.
NHZR-VV ZR-VLV	聚氯乙烯绝缘聚氯乙烯护套耐火、阻燃电力电缆 PVC insulated PVC sheathed flame fire power cable	可敷设在室内、隧道及管道中、电缆不能承受压力和机械外力作用。对消防要求较高的场所。 For laying in doors, inducts and in tunels, but unable to bear pulling force and pressure. On the sites where fire occurs freequently.
NHZR-VV <sub>22</sub> ZR-VLV <sub>22</sub>	聚氯乙烯绝缘钢带铠装聚氯乙烯护套耐火、阻燃电力电缆 PVC insulated steel tape armoured PVC sheathed flame fire-retardant power cable	敷设在室内、隧道及直埋土壤中，电缆能承受压力及其他外力作用。对消防要求较高的场所。 For laying in doors, in tunels and direct in ground, able to bear pulling force and pressure. On the sites where fire occurs freequently.
NHZR-VV <sub>32</sub> ZR-VLV <sub>32</sub>	聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套耐火、阻燃电力电缆 PVC insulated fine steel wire armoured PVC sheathed flame fire-retardant power cable	敷设在室内，矿井中，水中，电缆能承受相当的拉力。对消防要求较高的场所。 For laying in doors, in wells, under water, able to bear overtain axis pulling force. On the sites where fire occurs freequently.
ZR-VV <sub>42</sub> ZR-VLV <sub>42</sub>	聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套耐火、阻燃电力电缆 PVC insulated steel wire armoured PVC sheathed flame fire-retardant power cable	敷设在竖井，水下等垂直场合，能承受相当的轴向拉力。对消防要求较高的场所。 For laying down wells and under water, able to bear certain pulling force. On the sites where fire occurs freequently.

\*型号中L为铝芯 L—Aluminium conductor

#### 生产范围 Range of production

型号 Type	芯数 No. of cores	额定电压 Voltage 0.6/10kV	
		标称截面 Nom. cross sect. of area mm <sup>2</sup>	
		Cu	Al
WVLVNHZR-VVZR-VLV VV <sub>22</sub> VLV <sub>22</sub> NHZR-VV <sub>22</sub> ZR-VLV <sub>22</sub> VV <sub>32</sub> VLV <sub>32</sub> NHZR-VV <sub>32</sub> ZR-VLV <sub>32</sub>	1	1.5 ~ 630 4 ~ 630 16 ~ 630	2.5 ~ 630 10 ~ 630 25 ~ 630
WVLVNHZR-WZR-VLV VV <sub>22</sub> VLV <sub>22</sub> NHZR-VV <sub>22</sub> ZR-VLV <sub>22</sub> VV <sub>32(42)</sub> VLV <sub>32(42)</sub> NHZR-VV <sub>32(42)</sub> ZR-VLV <sub>32(42)</sub>	2	1.5 ~ 185 4 ~ 185 6 ~ 185	2.5 ~ 185 6 ~ 185 10 ~ 185
WVLVNHZR-VVZR-VLV VV <sub>22</sub> VLV <sub>22</sub> NHZR-WV <sub>22</sub> ZR-VLV <sub>22</sub> VV <sub>32(42)</sub> VLV <sub>32(42)</sub> NHZR-WV <sub>32(42)</sub> ZR-VLV <sub>32(42)</sub>	3	1.5 ~ 300 4 ~ 300 6 ~ 300	2.5 ~ 300 6 ~ 300 10 ~ 300



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型号 Type	芯数 No. of cores	额定电压 Voltage 0.6/10kV	
		标称截面 Nor. cross sect. of area mm <sup>2</sup>	
		Q <sub>1</sub>	Al
VV VLV NHZR-VVZR-VLV VV <sub>22(32,42)</sub> VLV <sub>22(32,42)</sub> NHZR-VV <sub>22(32,42)</sub> ZR-VLV <sub>22(32,42)</sub>	3+1; 4	1.5 ~ 400 2.5 ~ 300	6 ~ 300
VV VLV NHZR-VVZR-VLV VV <sub>22(32,42)</sub> VLV <sub>22(32,42)</sub> NHZR-VV <sub>22(32,42)</sub> ZR-VLV <sub>22(32,42)</sub>	5,4+1;3+2	1.5 ~ 400 2.5 ~ 300	6 ~ 300

\*单芯铠装电缆仅用于直流系统，若用交流系统，应采用非磁性材料的铠装层或采用隔磁措施。

The single core armoured cables are used for D.C. system only. As for A.C. system, the magnetic isolation should be applied on the steel armoured wires of non-magnetic materials should be used.

\*结构、电指标见表1-表8，其中导体直径不作考核指标。

Structure, electrical data seen in table 1-8, except for conductor diameter.

### 主要性能 Main properties

序号 No.	项目 Test item		性能 Property	
1	结构 Construction		按附表规定 Listed to the tables	
2	导体电阻 Conductor resistance		不大于附表规定 Listed to the tables	
3	耐电压试验 Voltage test		A.C. 3.5kV 5min 不击穿 No broken	
4	老化前机械性能 Machanical properties before aqing	抗张强度 Tensile strength	绝缘 Insulation	最小12.5N/mm <sup>2</sup> Min. 12.5N/mm <sup>2</sup>
			护套 Sheath	最小12.5N/mm <sup>2</sup> Min. 12.5N/mm <sup>2</sup>
		断裂伸长率 Elongation at break	绝缘 Insulation	最小150% Min. 150%
			护套 Sheath	最小150% Min. 150%
	老化后机械性能 Machanical properties after aqing	抗张强度 Tensile strength	绝缘 Insulation	100°C ± 2°C 7天 最小12.5N/mm <sup>2</sup> 100°C ± 2°C 7days Min. 12.5N/mm <sup>2</sup>
			护套 Sheath	100°C ± 2°C 7天 最小12.5N/mm <sup>2</sup> 100°C ± 2°C 7days Min. 12.5N/mm <sup>2</sup>
		变化率 Varying valve of tensile strength	绝缘 Insulation	100°C ± 2°C 7天 最大 ± 25% 100°C ± 2°C 7days Max. ± 25%
			护套 Sheath	100°C ± 2°C 7天 最大 ± 25% 100°C ± 2°C 7days Max. ± 25%
		断裂伸长率 Elongation at break	绝缘 Insulation	100°C ± 2°C 7天 最小150% 100°C ± 2°C 7days Min. 150%
			护套 Sheath	100°C ± 2°C 7天 最小150% 100°C ± 2°C 7days Min. 150%
		变化率 Varying valve of tensile strength	绝缘 Insulation	100°C ± 2°C 7天 最大 ± 25% 100°C ± 2°C 7days Max. ± 25%
			护套 Sheath	100°C ± 2°C 7天 最大 ± 25% 100°C ± 2°C 7days Max. ± 25%
5	阻燃性能 Flame-retardant property		符合GB/T18380-2001和IEC332-3(CB类) Comply with GB12660.5-90(CB) and IEC332-3(CB)	
6	绝缘电阻常数 Constant of insulation resistivity		在20°C最小 Min at 20°C 36.7	
	Ki MΩ km Ki MΩ . km		在70°C最小 Min at 70°C 0.037	



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0.6/1kV PVC绝缘PVC护套阻燃或非阻燃电力电缆

PVC insulated PVC sheathed flame retardant and non-flame retardant power cables for rated voltages up to 0.6/1kV

表1: 单芯电缆 Table1, single-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia. mm				CU	Al	20°C Cu	20°C Al
1 × 1.5	1 × 1.38	1.38	0.8	1.54	6.1	50.7		12.1	
1 × 2.5	1 × 1.78	1.78	0.8	1.54	6.5	63.5	47.9	7.41	12.1
1 × 4	1 × 2.25	2.25	1.0	1.54	7.4	87.7	63.0	4.61	7.41
1 × 6	1 × 2.85	2.85	1.0	1.54	7.9	111.0	75.9	3.08	4.61
1 × 10	1 × 1.35	4.05	1.0	1.54	9.2	166.6	93.0	1.83	3.08
1 × 16	7 × 1.70	5.10	1.0	1.54	10.3	233.3	132.2	1.15	1.91
1 × 25	7 × 2.14	6.42	1.2	1.54	12.0	344.9	185.4	0.727	1.20
1 × 35	7 × 2.52	7.56	1.2	1.54	13.2	449.8	228.7	0.524	0.868
1 × 50	19 × 1.87	8.60	1.4	1.54	14.9	590.5	289.8	0.387	0.641
1 × 70	19 × 2.29	10.00	1.4	1.54	16.7	807.3	374.2	0.268	0.443
1 × 95	19 × 2.65	11.80	1.6	1.65	19.3	1102.0	501.4	0.193	0.320
1 × 120	37 × 2.09	13.50	1.6	1.65	20.9	1349.0	590.3	0.153	0.253
1 × 150	37 × 2.32	15.00	1.8	1.76	23.1	1654.0	721.3	0.124	0.206
1 × 185	37 × 2.56	16.80	2.0	1.87	25.6	2060.0	891.6	0.0991	0.164
1 × 240	61 × 2.29	19.20	2.2	1.98	28.8	2651.0	1114.0	0.0754	0.125
1 × 300	61 × 2.56	21.50	2.4	2.09	31.9	3323.0	1396.0	0.0601	0.100
1 × 400	61 × 2.89	24.50	2.6	2.20	35.5	4205.0	1724.0	0.0470	0.0778
1 × 500	61 × 3.22	27.10	2.8	2.31	39.7	5359.0	2128.0	0.0366	0.0605
1 × 630	91 × 3.00	33.00	2.8	2.40	43.7	6707.0	2605.0	0.0283	0.0469

表2: 双芯电缆 Table2: two-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia. mm				CU	Al	20°C Cu	20°C Al
2 × 1.5	1 × 1.38	1.38	0.8	1.8	10.5	119.0		12.1	
2 × 2.5	1 × 1.78	1.78	0.8	1.8	11.3	150.0	118.0	7.41	12.1
2 × 4	1 × 2.25	2.25	1.0	1.8	13.1	210.0	160.0	4.61	7.41
2 × 6	1 × 2.85	2.85	1.0	1.8	14.1	264.0	192.0	3.08	4.61
2 × 10	7 × 1.35	4.05	1.0	1.8	16.7	393.0	242.0	1.83	3.08
2 × 16	7 × 1.70	5.10	1.0	1.8	18.8	541.0	334.0	1.15	1.91
2 × 25	7 × 2.14	6.42	1.2	1.8	22.2	794.0	469.0	0.727	1.20
2 × 35	7 × 2.52	7.56	1.2	1.8	24.5	1037.0	585.0	0.524	0.868
2 × 50	19 × 1.87	8.60	1.4	1.8	21.8	1227.0	620.0	0.387	0.641
2 × 70	19 × 2.29	10.00	1.4	1.9	24.7	1650.0	747.0	0.268	0.443
2 × 95	19 × 2.65	11.80	1.6	2.0	29.2	2213.0	998.0	0.193	0.320
2 × 120	37 × 2.09	13.50	1.6	2.1	31.3	2733.0	1186.0	0.153	0.253
2 × 150	37 × 2.32	15.00	1.8	2.2	34.7	3396.0	1462.0	0.124	0.206
2 × 185	37 × 2.56	16.80	2.0	2.4	37.9	3943.0	1598.0	0.0991	0.164



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表 3: 三芯电缆 Table3: three-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia. mm				Cu	Al	20°C Cu	20°C Al
3 × 1.5	1 × 1.38	1.38	0.8	1.8	10.9	142.0		12.1	-
3 × 2.5	1 × 1.78	1.78	0.8	1.8	11.8	187.0	139.0	7.41	12.1
3 × 4	1 × 2.25	2.25	1.0	1.8	13.7	265.0	189.0	4.61	7.41
3 × 6	1 × 2.85	2.85	1.0	1.8	14.8	335.0	227.0	3.08	4.61
3 × 10	7 × 1.35	4.05	1.0	1.8	17.6	514.0	290.0	1.83	3.08
3 × 16	7 × 1.70	5.10	1.0	1.8	19.9	728.0	419.0	1.15	1.91
3 × 25	7 × 2.14	6.42	1.2	1.8	23.6	1084.0	596.0	0.727	1.20
3 × 35	7 × 2.52	7.56	1.2	1.8	26.1	1442.0	745.0	0.524	0.868
3 × 50	19 × 1.87	8.60	1.4	1.8	26.5	1801.0	834.0	0.387	0.641
3 × 70	19 × 2.29	10.00	1.4	1.9	28.8	2415.0	1061.0	0.268	0.443
3 × 95	19 × 2.65	11.80	1.6	2.1	33.6	3205.0	1418.0	0.193	0.320
3 × 120	37 × 2.09	13.50	1.6	2.2	37.1	4073.0	1716.0	0.153	0.253
3 × 150	37 × 2.32	15.00	1.8	2.3	41.9	5028.0	2127.0	0.124	0.206
3 × 185	37 × 2.56	16.80	2.0	2.5	45.9	6180.0	2602.0	0.0991	0.164
3 × 240	61 × 2.29	19.20	2.2	2.7	51.8	7949.0	3308.0	0.0754	0.125
3 × 300	61 × 2.56	21.50	2.4	2.8	55.3	9780.0	3979.0	0.0601	0.100

表 4: 四芯电缆 Table4: four-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia. mm				Cu	Al	20°C Cu	20°C Al
4 × 2.5	1 × 1.78	1.78	0.8	1.8	12.7	232.0		7.41	12.1
4 × 4	1 × 2.25	2.25	1.0	1.8	14.9	322.0	221.0	4.61	7.41
4 × 6	1 × 2.85	2.85	1.0	1.8	16.1	422.0	271.0	3.08	4.61
4 × 10	1 × 1.35	4.05	1.0	1.8	19.2	649.0	388.0	1.83	3.08
4 × 16	7 × 1.70	5.10	1.0	1.8	21.7	922.0	509.0	1.15	1.91
4 × 25	7 × 2.14	6.42	1.2	1.8	25.9	1373.0	722.0	0.727	1.20
4 × 35	7 × 2.52	7.56	1.2	1.8	28.7	1802.0	899.0	0.524	0.868
4 × 50	19 × 1.87	8.60	1.4	1.9	30.4	2380.0	1091.0	0.387	0.641
4 × 70	19 × 2.29	10.00	1.4	2.0	33.9	3202.0	1398.0	0.268	0.443
4 × 95	19 × 2.65	11.80	1.6	2.2	39.7	4315.0	1866.0	0.193	0.320
4 × 120	37 × 2.09	13.50	1.6	2.3	44.2	5359.0	2265.0	0.153	0.253
4 × 150	37 × 2.32	15.00	1.8	2.5	48.7	6679.0	2811.0	0.124	0.206
4 × 185	37 × 2.56	16.80	2.0	2.6	53.5	8190.0	3420.0	0.0991	0.164
4 × 240	61 × 2.29	19.20	2.2	2.9	55.4	10494.0	4305.0	0.0754	0.125
4 × 300	61 × 2.56	21.50	2.4	3.1	60.2	12948.0	5215.0	0.0601	0.100



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表 5: 五芯电缆 Table5: five-core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia.mm				Cu	Al	20°C Cu	20°C Al
5 × 2.5	1 × 1.78	1.78	0.8	1.8	13.6	272.0	193.0	7.41	12.1
5 × 4	1 × 2.25	2.25	1.0	1.8	16.1	394.0	268.0	4.61	7.41
5 × 6	1 × 2.85	2.85	1.0	1.8	17.7	509.0	324.0	3.08	4.61
5 × 10	1 × 1.55	4.05	1.0	1.8	21.0	792.0	461.0	1.83	3.08
5 × 16	7 × 1.70	5.10	1.0	1.8	23.8	1124.0	608.0	1.15	1.91
5 × 25	7 × 2.14	6.42	1.2	1.9	28.7	1696.0	881.0	0.727	1.20
5 × 35	7 × 2.52	7.56	1.2	2.0	32.0	2241.0	1113.0	0.524	0.868
5 × 50	7 × 1.87	8.60	1.4	2.1	37.4	3158.0	1541.0	0.387	0.641
5 × 70	19 × 2.29	10.00	1.4	2.3	41.7	4236.0	11973.0	0.268	0.443
5 × 95	19 × 2.65	11.80	1.6	2.5	48.1	5685.0	2614.0	0.193	0.320
5 × 120	37 × 2.09	13.50	1.6	2.6	53.0	7662.0	3183.0	0.153	0.253
5 × 150	37 × 2.32	15.00	1.8	2.8	58.6	8743.0	3850.0	0.124	0.206
5 × 185	37 × 2.56	16.80	2.0	3.0	65.1	10801.0	4767.0	0.0991	0.164
5 × 240	61 × 2.29	19.20	2.2	3.3	72.1	13194.0	5461.0	0.0754	0.125
5 × 300	61 × 2.56	21.50	2.4	3.6	80.1	16414.0	6745.0	0.0601	0.100

表 6: 三+一芯电缆 Table6: (3+1)core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm	护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km				
	根数及单线直径 Length & Dia		直径 Dia.mm					Cu	Al	20°C Cu	20°C Al			
	相线 phase	副线 Redu												
3 × 4+1 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.8	14.3	354.0	211.0	4.61	7.41	7.41	12.1
3 × 6+1 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.8	15.8	400.0	265.0	3.08	4.61	4.61	7.41
3 × 10+1 × 6	7 × 1.35	7 × 2.85	4.05	2.85	1.0	1.0	1.8	18.5	595.0	334.0	1.83	3.08	3.02	4.61
3 × 16+1 × 10	7 × 1.70	7 × 1.35	5.10	4.05	1.0	1.0	1.8	21.1	853.0	467.0	1.15	1.83	1.91	3.08
3 × 25+1 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.8	24.9	1267.0	671.0	0.727	1.150	1.20	1.91
3 × 35+1 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.8	27.1	1591.0	806.0	0.524	1.150	0.868	1.91
3 × 50+1 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	1.9	30.4	2124.0	996.0	0.387	0.727	0.641	1.2
3 × 70+1 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	2.0	33.9	2851.0	1271.0	0.268	0.524	0.443	0.868
3 × 95+1 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	2.1	39.9	3844.0	1684.0	0.193	0.387	0.320	0.641
3 × 120+1 × 70	37 × 2.09	19 × 2.29	13.50	10.00	1.6	1.4	2.2	44.0	4833.0	2060.0	0.153	0.268	0.253	0.443
3 × 150+1 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	2.4	48.5	5841.0	2488.0	0.124	0.268	0.206	0.443
3 × 185+1 × 95	37 × 2.56	19 × 2.65	16.80	11.80	2.0	1.6	2.5	53.3	7246.0	3056.0	0.0991	0.1930	0.164	0.32
3 × 240+1 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	2.7	55.0	9216.0	3801.0	0.0754	0.1530	0.125	0.253
3 × 300+1 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	2.9	59.8	11388.0	4620.0	0.0601	0.1240	0.100	0.206



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表 7: 三 + 二芯电缆 Table7: (3+2)core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm		护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km			
	根数及单线直径 Length & DiDia		直径 Dia.mm						Cu	Al	20°C Cu		20°C Al	
	相线 phase	副线 Redu												
3 × 4 + 2 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.8	15.2	354.0	238.0	4.61	7.41	7.41	12.1
3 × 6 + 2 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.8	17.1	463.0	288.0	3.08	4.61	4.61	7.41
3 × 10 + 2 × 6	7 × 1.35	1 × 2.85	4.05	2.85	1.0	1.0	1.8	19.7	680.0	407.0	1.83	3.08	3.02	4.61
3 × 16 + 2 × 10	7 × 1.70	7 × 1.35	5.10	4.05	1.0	1.0	1.8	22.7	990.0	552.0	1.15	1.83	1.91	3.08
3 × 25 + 2 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.8	26.7	1468.0	773.0	0.727	1.150	1.20	1.91
3 × 35 + 2 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.9	29.0	1791.0	907.0	0.524	1.150	0.868	1.91
3 × 50 + 2 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	2.0	34.4	2573.0	1284.0	0.387	0.727	0.641	1.2
3 × 70 + 2 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	2.2	38.7	3464.0	1637.0	0.268	0.524	0.443	0.868
3 × 95 + 2 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	2.4	44.4	4697.0	2207.0	0.193	0.387	0.320	0.641
3 × 120 + 2 × 70	37 × 2.09	19 × 2.29	13.50	10.00	1.6	1.4	2.5	49.0	5935.0	2673.0	0.153	0.268	0.253	0.443
3 × 150 + 2 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	2.6	52.9	6968.0	3153.0	0.124	0.206	0.206	0.443
3 × 185 + 2 × 95	37 × 2.56	19 × 2.65	16.80	11.80	2.0	1.6	2.8	59.3	8759.0	3942.0	0.0991	0.1930	0.164	0.32
3 × 240 + 2 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	3.1	66.6	11184.0	4978.0	0.0754	0.1530	0.125	0.253
3 × 300 + 2 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	3.3	71.1	13719.0	5984.0	0.0601	0.1240	0.100	0.206

表 8: 四 + 一芯电缆 Table8: (4+1)core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm		护套 厚度 Sheath thick. mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km			
	根数及单线直径 Length & DiDia		直径 Dia.mm						Cu	Al	20°C Cu		20°C Al	
	相线 phase	副线 Redu												
4 × 4 + 1 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.8	15.6	358.0	251.0	4.61	7.41	7.41	12.1
4 × 6 + 1 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.8	17.4	493.0	317.0	3.08	4.61	4.61	7.41
4 × 10 + 1 × 6	7 × 1.35	1 × 2.85	4.05	2.85	1.0	1.0	1.8	20.3	733.0	347.0	1.83	3.08	3.02	4.61
4 × 16 + 1 × 10	7 × 1.70	7 × 1.35	5.10	4.05	1.0	1.0	1.8	23.3	1118.0	588.0	1.15	1.83	1.91	3.08
4 × 25 + 1 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.8	27.6	1662.0	827.0	0.727	1.150	1.20	1.91
4 × 35 + 1 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.9	30.3	2046.0	1021.0	0.524	1.150	0.868	1.91
4 × 50 + 1 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	2.0	35.8	2520.0	1395.0	0.387	0.727	0.641	1.2
4 × 70 + 1 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	2.2	39.9	3782.0	1787.0	0.268	0.524	0.443	0.868
4 × 95 + 1 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	2.4	46.0	5088.0	2356.0	0.193	0.387	0.320	0.641
4 × 120 + 1 × 70	37 × 2.09	19 × 2.29	13.50	10.00	1.6	1.4	2.6	51.0	6394.0	2911.0	0.153	0.268	0.253	0.443
4 × 150 + 1 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	2.7	55.4	7725.0	3482.0	0.124	0.193	0.206	0.443
4 × 185 + 1 × 95	37 × 2.56	19 × 2.65	16.80	11.80	2.0	1.6	2.9	61.9	9894.0	4607.0	0.0991	0.1930	0.164	0.32
4 × 240 + 1 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	3.2	69.7	12306.0	5466.0	0.0754	0.1530	0.125	0.253
4 × 300 + 1 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	3.4	74.3	15397.0	7118.0	0.0601	0.1240	0.100	0.206





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0.6/1kV PVC绝缘钢带铠装PVC护套阻燃或非阻燃电力电缆  
PVC insulated steel tape armoured PVC sheathed flame retardant and non-flame retardant power cables for rated voltages up to 0.6/1kV

表 1: 单芯电缆 Table1: single-core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick.mm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick.mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km	
	根数及单线直径 Length & iDia	直径 Dia.mm						Cu	Al	20°C Cu	20°C Al
1 × 10	7 × 1.35	4.05	1.0	1.32	2 × 0.3	1.8	13.6	348	265.0	1.83	3.08
1 × 16	7 × 1.70	5.10	1.0	1.32	2 × 0.3	1.8	14.6	432.0	331.0	1.15	1.91
1 × 25	7 × 2.14	6.42	1.2	1.32	2 × 0.3	1.8	16.4	574.0	415.0	0.727	1.20
1 × 35	7 × 2.52	7.56	1.2	1.32	2 × 0.3	1.8	17.5	699.0	478.0	0.524	0.868
1 × 50	19 × 1.87	8.60	1.4	1.32	2 × 0.3	1.8	19.3	870.0	569.0	0.387	0.641
1 × 70	19 × 2.29	10.00	1.4	1.32	2 × 0.3	1.8	21.1	1118.0	685.0	0.268	0.443
1 × 95	19 × 2.65	11.80	1.6	1.32	2 × 0.3	1.8	23.4	1444.0	844.0	0.193	0.320
1 × 120	37 × 2.09	13.50	1.6	1.32	2 × 0.3	1.8	25.0	1719.0	960.0	0.153	0.253
1 × 150	37 × 2.32	15.00	1.8	1.32	2 × 0.3	1.8	27.0	2046.0	1113.0	0.124	0.206
1 × 185	37 × 2.56	16.80	2.0	1.32	2 × 0.5	1.8	30.7	2672	1503.0	0.0991	0.164
1 × 240	61 × 2.29	19.20	2.2	1.32	2 × 0.5	1.9	33.3	3353.0	1816.0	0.0754	0.125
1 × 300	61 × 2.56	21.50	2.4	1.32	2 × 0.5	2.0	36.4	4072.0	2145.0	0.0601	0.100
1 × 400	61 × 2.89	24.50	2.6	1.32	2 × 0.5	2.1	40.1	5033.0	2570.0	0.0470	0.0778
1 × 500	61 × 3.22	27.10	2.8	1.32	2 × 0.5	2.2	44.1	6277.0	3099.0	0.0366	0.0605
1 × 630	91 × 3.00	33.00	2.8	1.4	2 × 0.5	2.5	48.7	7746.0	3674.0	0.0283	0.0469

表 2: 双芯电缆 Table2: two-core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick.mm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick.mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia.mm						Cu	Al	20°C Cu	20°C Al
2 × 4	1 × 2.25	2.25	1.0	1.2	2 × 0.3	1.8	13.1	210.0	160.0	4.61	7.41
2 × 6	1 × 2.85	2.85	1.0	1.2	2 × 0.3	1.8	14.1	264.0	192.0	3.08	4.61
2 × 10	7 × 1.35	4.05	1.0	1.2	2 × 0.3	1.8	16.7	393.0	242.0	1.83	3.08
2 × 16	7 × 1.70	5.10	1.0	1.2	2 × 0.3	1.8	18.8	541.0	334.0	1.15	1.91
2 × 25	7 × 2.14	6.42	1.2	1.2	2 × 0.3	1.8	22.2	794.0	469.0	0.727	1.20
2 × 35	7 × 2.52	7.56	1.2	1.2	2 × 0.3	1.8	24.5	1037.0	585.0	0.524	0.868
2 × 50	19 × 1.87	8.60	1.4	1.2	2 × 0.3	1.8	21.8	1227.0	610.0	0.387	0.641
2 × 70	19 × 2.29	10.00	1.4	1.2	2 × 0.5	1.9	24.7	1650.0	747.0	0.268	0.443
2 × 95	19 × 2.65	11.80	1.6	1.2	2 × 0.5	2	29.2	2213.0	988.0	0.193	0.320
2 × 120	37 × 2.09	13.50	1.6	1.2	2 × 0.5	2.1	31.3	2733.0	1186.0	0.153	0.253
2 × 150	37 × 2.23	15.00	1.8	1.3	2 × 0.5	2.2	34.7	3396.0	1462.0	0.124	0.206
2 × 185	37 × 2.56	16.80	2.0	1.4	2 × 0.5	2.2	39.2	4112.0	1726.0	0.0991	0.164



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表 3: 三芯电缆 Table3: three-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick.mm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick.mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia.mm						Cu	Al	20°C Cu	20°C Al
3 × 4	1 × 1.25	2.25	1.0	1.2	2 × 0.3	1.8	17.3	489.0	414.0	4.61	7.41
3 × 6	1 × 2.85	2.85	1.0	1.2	2 × 0.3	1.8	18.4	577.0	472.0	3.08	4.61
3 × 10	7 × 1.35	4.05	1.0	1.2	2 × 0.3	1.8	21.2	800.0	599.0	1.83	3.08
3 × 16	7 × 1.70	5.10	1.0	1.2	2 × 0.3	1.8	23.5	1050.0	740.0	1.15	1.91
3 × 25	7 × 2.14	6.42	1.2	1.2	2 × 0.3	1.8	27.2	1465.0	976.0	0.727	1.20
3 × 35	7 × 2.52	7.56	1.2	1.2	2 × 0.5	1.9	30.7	2149.0	1372.0	0.524	0.868
3 × 50	19 × 1.87	8.60	1.4	1.2	2 × 0.6	2.0	31.3	2453.0	1486.0	0.387	0.641
3 × 70	19 × 2.29	10.00	1.4	1.2	2 × 0.7	2.1	33.6	3116.0	1763.0	0.268	0.443
3 × 95	19 × 2.65	11.80	1.6	1.2	2 × 0.8	2.2	38.3	4053.0	2216.0	0.193	0.320
3 × 120	37 × 2.09	13.50	1.6	1.3	2 × 0.9	2.3	41.9	4930.0	2609.0	0.153	0.253
3 × 150	37 × 2.23	15.00	1.8	1.4	2 × 0.10	2.5	47.1	6075.0	3174.0	0.124	0.206
3 × 185	37 × 2.56	16.80	2.0	1.4	2 × 0.11	2.6	50.9	7299.0	3721.0	0.0991	0.164
3 × 240	61 × 2.29	19.20	2.2	1.5	2 × 0.12	2.8	57.0	9213.0	4590.0	0.0754	0.125
3 × 300	61 × 2.56	21.50	2.4	1.7	2 × 0.13	3.0	61.1	11185.0	5438.0	0.06101	0.100

表 4: 四芯电缆 Table4: four-core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick.mm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick.mm	电缆近似外 径 Approx. dia.of cable mm	电缆近似重量 Cable approx.weight kg/km		导线直流电阻 D.C.resistance Ω/km	
	根数及单线直径 Length & Dia	直径 Dia.mm						Cu	Al	20°C Cu	20°C Al
4 × 4	1 × 1.25	2.25	1.0	1.2	2 × 0.3	1.8	18.5	565.0	464.0	4.61	7.41
4 × 6	1 × 2.85	2.85	1.0	1.2	2 × 0.3	1.8	19.7	685.0	533.0	3.08	4.61
4 × 10	7 × 1.35	4.05	1.0	1.2	2 × 0.3	1.8	22.8	960.0	699.0	1.15	3.08
4 × 16	7 × 1.70	5.10	1.0	1.2	2 × 0.3	1.8	25.3	1273.0	851.0	0.727	1.91
4 × 25	7 × 2.14	6.42	1.2	1.2	2 × 0.5	1.9	30.5	1998.0	1347.0		1.20
4 × 35	7 × 2.52	7.56	1.2	1.2	2 × 0.5	2.0	33.5	2505.0	1602.0	0.524	0.868
4 × 50	19 × 1.87	8.60	1.4	1.2	2 × 0.5	2.0	35.2	3122.0	1832.0	0.387	0.641
4 × 70	19 × 2.29	10.00	1.4	1.2	2 × 0.5	2.2	38.7	4025.0	2220.0	0.268	0.443
4 × 95	19 × 2.65	11.80	1.6	1.3	2 × 0.5	2.4	44.7	5291.0	2842.0	0.193	0.320
4 × 120	37 × 2.09	13.50	1.6	1.4	2 × 0.5	2.5	49.4	6464.0	3370.0	0.153	0.253
4 × 150	37 × 2.23	15.00	1.8	1.4	2 × 0.5	2.6	53.7	7866.0	3998.0	0.124	0.206
4 × 185	37 × 2.56	16.80	2.0	1.5	2 × 0.5	2.8	58.9	9542.0	4772.0	0.0991	0.164
4 × 240	61 × 2.29	19.20	2.2	1.7	2 × 0.5	3.0	61.0	11916.0	5727.0	0.0754	0.125
4 × 300	61 × 2.56	24.50	2.4	1.8	2 × 0.5	3.3	66.2	14501.0	6767.0	0.0601	0.100



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表 5: 五芯电缆 Table5: five-core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor		绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thickmm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thickmm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km	
	根数及单线直径 Length & Di Dia	直径 Dia. mm						Cu	Al	20°C Cu	20°C Al
5 × 2.5	1 × 1.78	1.78	0.8	1.2	2 × 0.3	1.8	17.3	488.0	409.0	7.41	12.1
5 × 4	1 × 2.25	2.25	1.0	1.2	2 × 0.3	1.8	19.7	644.0	518.0	4.61	7.41
5 × 6	1 × 2.85	2.85	1.0	1.2	2 × 0.3	1.8	21.3	790.0	605.0	3.08	4.61
5 × 10	1 × 1.35	4.05	1.0	1.2	2 × 0.3	1.8	24.6	1110.0	779.0	1.83	3.08
5 × 16	7 × 1.70	5.10	1.0	1.2	2 × 0.3	1.8	27.4	1485.0	970.0	1.15	1.91
5 × 25	7 × 2.14	6.42	1.2	1.2	2 × 0.5	2.0	33.3	2339.0	1525.0	0.727	1.20
5 × 35	7 × 2.52	7.56	1.2	1.2	2 × 0.5	2.1	36.6	2953.0	1822.0	0.524	0.868
5 × 50	7 × 1.87	8.60	1.4	1.3	2 × 0.5	2.3	41.6	3975.0	2392.0	0.387	0.641
5 × 70	19 × 2.29	10.00	1.4	1.3	2 × 0.5	2.4	45.5	5125.0	2909.0	0.268	0.443
5 × 95	19 × 2.65	11.80	1.6	1.4	2 × 0.5	2.6	52.1	6798.0	3790.0	0.193	0.320
5 × 120	37 × 2.09	13.50	1.6	1.5	2 × 0.5	2.8	57.3	8217.0	4418.0	0.153	0.253
5 × 150	37 × 2.32	15.00	1.8	1.6	2 × 0.5	3.0	63.1	10030.0	5280.0	0.124	0.206
5 × 185	37 × 2.56	16.80	2.0	1.8	2 × 0.5	3.2	69.9	12275.0	6418.0	0.0991	0.164
5 × 240	61 × 2.29	19.20	2.2	1.9	2 × 0.5	3.5	77.1	15077.0	7343.0	0.0754	0.125
5 × 300	61 × 2.56	21.50	2.4	2.0	2 × 0.5	3.8	86.5	19395.0	9726.0	0.0601	0.100

表 6: 三+一芯电缆 Table6: (3+1) core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thickmm	钢带厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km				
	根数及单线直径 Length & Di Dia		直径 Dia. mm							Cu	Al	20°C Cu	20°C Al	20°C Cu	20°C Al	
	相线 phase	副线 Redu														
3 × 4+1 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.2	2 × 0.3	1.8	17.9	538.0	446.0	4.61	7.41	7.41	12.1
3 × 6+1 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.2	2 × 0.3	1.8	19.5	657.0	524.0	3.08	4.61	4.61	7.41
3 × 10+1 × 6	7 × 1.35	7 × 2.85	4.05	2.85	1.0	1.0	1.2	2 × 0.3	1.8	22.1	894.0	619.0	1.83	3.08	3.02	4.61
3 × 16+1 × 10	7 × 1.70	7 × 1.35	5.10	4.05	1.0	1.0	1.2	2 × 0.3	1.8	24.7	1194.0	804.0	1.15	1.83	1.91	3.08
3 × 25+1 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.2	2 × 0.5	1.8	28.5	1668.0	1072.0	0.727	1.150	1.20	1.91
3 × 35+1 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.2	2 × 0.5	1.8	31.7	2243.0	1458.0	0.524	1.150	0.868	1.91
3 × 50+1 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	1.2	2 × 0.5	2.0	35.0	2852.0	1723.0	0.387	0.727	0.641	1.2
3 × 70+1 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	1.2	2 × 0.5	2.1	38.5	3657.0	2077.0	0.268	0.524	0.443	0.868
3 × 95+1 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	1.2	2 × 0.5	2.3	44.3	4976.0	2636.0	0.193	0.387	0.320	0.641
3 × 120+1 × 70	37 × 2.09	1 × 2.29	13.50	10.00	1.6	1.4	1.3	2 × 0.5	2.4	49.0	5912.0	3139.0	1.153	0.268	0.253	0.443
3 × 150+1 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	1.4	2 × 0.5	2.5	53.5	7025.0	3673.0	0.124	0.193	0.206	0.443
3 × 185+1 × 95	37 × 2.56	19 × 2.65	16.80	11.80	2.0	1.6	1.5	2 × 0.5	2.7	58.9	8589.0	4408.0	0.0991	0.1930	0.164	0.32
3 × 240+1 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	1.6	2 × 0.5	2.9	60.6	10631.0	5216.0	0.0754	0.1530	0.125	0.253
3 × 300+1 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	1.7	2 × 0.5	3.1	65.6	12913.0	6145.0	0.0601	0.1240	0.100	0.206



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表 7: 三十二芯电缆 Table7: (3+2)core cables

导体标称截面 Nor. cross- sec. area of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick. mm	钢带 厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick. mm	电缆近似 外径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km				
	根数及单线直径 Lenath & Di Dia		直径 Dia. mm							Cu	Al	20°C Cu		20°C Al		
	相线 phase	副线 Redu														
3 × 4+2 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.2	2 × 0.3	1.8	18.8	580.0	491.0	4.61	7.41	7.41	12.1
3 × 6+2 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.2	2 × 0.3	1.8	20.7	728.0	570.0	3.08	4.61	4.61	7.41
3 × 10+2 × 6	7 × 2.85	7 × 2.85	4.05	2.85	1.0	1.0	1.2	2 × 0.3	1.8	23.3	973.0	702.0	1.83	3.08	3.02	4.61
3 × 16+2 × 10	7 × 1.35	7 × 1.35	5.10	4.05	1.0	1.0	1.2	2 × 0.3	1.8	26.3	1323.0	853.0	1.15	1.83	1.91	3.08
3 × 25+2 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.2	2 × 0.5	2.0	31.5	2053.0	1287.0	0.727	1.150	1.20	1.91
3 × 35+2 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.2	2 × 0.5	2.0	33.6	2406.0	1402.0	0.524	1.150	0.868	1.91
3 × 50+2 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	1.2	2 × 0.5	2.2	38.4	3371.0	2080.0	0.387	0.727	0.641	1.2
3 × 70+2 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	1.3	2 × 0.5	2.3	42.6	4350.0	2542.0	0.268	0.524	0.443	0.868
3 × 95+2 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	1.4	2 × 0.5	2.5	48.5	5736.0	3284.0	0.193	0.387	0.320	0.641
3 × 120+2 × 70	37 × 2.09	19 × 2.29	13.50	10.00	1.6	1.4	1.5	2 × 0.5	2.7	53.4	7126.0	3897.0	0.153	0.268	0.253	0.443
3 × 150+2 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	1.5	2 × 0.5	2.8	57.2	8249.0	4438.0	0.124	0.193	0.206	0.443
3 × 185+2 × 95	37 × 2.56	19 × 2.56	16.80	11.80	2.0	1.6	1.7	2 × 0.5	3.0	63.9	10254.0	5441.0	0.0991	0.1930	0.164	0.32
3 × 240+2 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	1.8	2 × 0.5	3.3	71.4	12888.0	6689.0	0.0754	1.0530	0.125	0.53
3 × 300+2 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	1.9	2 × 0.5	3.5	77.3	14843.0	7334.0	0.0601	0.1240	0.100	0.206

表 8: 四+一芯电缆 Table8: (4+1)core cables

导体标称截面 Nor. cross- sec. areas of conductor mm <sup>2</sup>	导体 conductor				绝缘 厚度 Insu. thick. mm	内护套 厚度 Inner Sheath thick. mm	钢带 厚度 Steel tape thick. mm	外护套 厚度 outer Sheath thick. mm	电缆近似外 径 Approx. dia. of cable mm	电缆近似重量 Cable approx. weight kg/km		导线直流电阻 D.C. resistance Ω/km				
	根数及单线直径 Lenath & Di Dia		直径 Dia. mm							Cu	Al	20°C Cu		20°C Al		
	相线 phase	副线 Redu														
4 × 4+1 × 2.5	1 × 2.25	1 × 1.78	2.25	1.78	1.0	0.8	1.2	2 × 0.3	1.8	19.2	605.0	498.0	4.61	7.41	7.41	12.1
4 × 6+1 × 4	1 × 2.85	1 × 2.25	2.85	2.25	1.0	1.0	1.2	2 × 0.3	1.8	20.8	765.0	589.0	3.08	4.61	4.61	7.41
4 × 10+1 × 6	7 × 1.35	1 × 2.85	4.05	2.85	1.0	1.0	1.2	2 × 0.3	1.8	23.9	1052.0	756.0	1.83	3.08	3.02	4.61
4 × 16+1 × 10	7 × 1.70	7 × 1.35	5.10	4.05	1.0	1.0	1.2	2 × 0.3	1.8	26.9	1482.0	952.0	1.15	1.83	1.91	3.08
4 × 25+1 × 16	7 × 2.14	7 × 1.70	6.42	5.10	1.2	1.0	1.2	2 × 0.5	2.0	32.4	2312.0	1477.0	0.727	1.150	1.20	1.91
4 × 35+1 × 16	7 × 2.52	7 × 1.70	7.56	5.10	1.2	1.0	1.2	2 × 0.5	2.1	35.1	2756.0	1731.0	0.524	0.150	0.868	1.91
4 × 50+1 × 25	19 × 1.87	7 × 2.29	8.60	6.30	1.4	1.2	1.2	2 × 0.5	2.2	39.7	3680.0	1827.0	0.387	0.727	0.641	1.2
4 × 70+1 × 35	19 × 2.29	7 × 2.65	10.00	7.50	1.4	1.2	1.3	2 × 0.5	2.4	44.0	4768.0	2734.0	0.268	0.524	0.443	0.868
4 × 95+1 × 50	19 × 2.65	19 × 1.87	11.80	8.60	1.6	1.4	1.4	2 × 0.5	2.6	50.2	6267.0	3491.0	0.193	0.387	0.320	0.641
4 × 120+1 × 70	37 × 2.09	19 × 2.29	13.50	10.00	1.6	1.4	1.5	2 × 0.5	2.7	55.1	7689.0	4145.0	0.153	0.268	0.253	0.443
4 × 150+1 × 70	37 × 2.32	19 × 2.29	15.00	10.00	1.8	1.4	1.6	2 × 0.5	2.9	59.9	9216.0	4882.0	0.124	0.268	0.206	0.443
4 × 185+1 × 95	37 × 2.56	19 × 2.65	16.80	11.80	2.0	1.6	1.7	2 × 0.5	3.1	66.5	11293.0	5899.0	0.0991	0.1930	0.164	0.32
4 × 240+1 × 120	61 × 2.29	37 × 2.09	19.20	13.50	2.2	1.6	1.8	2 × 0.5	3.4	74.3	14371.0	7395.0	0.0754	1.0530	0.125	0.253
4 × 300+1 × 150	61 × 2.56	37 × 2.32	21.50	15.00	2.4	1.8	2.0	2 × 0.5	3.6	81.9	17385.0	9016.0	0.0601	0.1240	0.100	0.206

## 聚氯乙烯绝缘电力电缆 PVC insulated power cables

### 聚氯乙烯绝缘电力电缆 PVC insulated power cables

#### 电缆运行敷设条件 Installation

##### 电缆敷设 Installation

1. 敷设时电缆温度不低于 0℃，环境温度低于 0℃时，应对电缆进行预热。  
The installation temperature should not over 0℃, if the ambient temperature is lower than 0℃, the cable should be preheated.
2. 敷设的弯曲半径不小于电缆外径的 10-15 倍。  
The bending radius of cable should not less than 8 times.
3. 电缆敷设后，应经受直流耐压试验，时间 5 分，试验电压 3.5KV。  
After installation, the cable should withstand voltage test for 15 min. 3.5Kv d.c.

##### 在空气中敷设 In air

1. 单芯电缆平行敷设时中心距离：185mm<sup>2</sup>及以下为电缆直径的 2 倍 240mm<sup>2</sup>及以上为 90mm。  
The single core cable laying in parallel, the distance between the cable's center is 2 times (for cables, which cross sectional area of conductor ≤ 185mm<sup>2</sup>) and 90 mm (for cables, which cross sectional area of conductor ≥ 240mm<sup>2</sup>).
2. 周围环境温度：40℃。  
Ambient temperature: 40℃.
3. 导电线芯最高允许温度：70℃。  
Max. temperature of conductor: 70℃.
4. 不同环境温度下载流量的校正系数  
Rating factors of current rating for ambient temperature

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

##### 直埋敷设 Directly buried into ground

1. 单芯电缆不接触敷设时，中心距离为电缆直径的 2 倍。  
When the single core cables are installed separately, the distance between the cable's is 2 times of the cable diameter.
2. 周围环境温度：25℃。  
Ambient temperature: 25℃.
3. 导电线芯最高允许温度：70℃。  
Max. temperature of conductor: 70℃.
4. 土壤热阻系数：1.0℃·m/W。  
Soil thermal resistivity: 1.0℃·m/W.
5. 直埋深度：0.7m。  
Depth: 0.7m.
6. 不同环境温度下载流量的校正系数  
Rating factors under different ambient temperature

环境温度 Air temperature	15℃	20℃	30℃	35℃
校正系数 Rating factors	1.11	1.05	0.94	0.88

##### 短路容量 Short circuit ratings

导电线芯短路时允许最高温度 Max. temperature at short circuit	最高允许的短路电流 Max. short circuit rating
130℃	$I = 94S / \sqrt{t} A$

式中：S 为导电线芯标称截面，mm<sup>2</sup>；t 为短路时间 S。

Where: S—cross sectional area of conductor (mm<sup>2</sup>) t—short circuit duration (sec).



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0.6/1kV PVC绝缘PVC护套阻燃或非阻燃电力电缆  
PVC insulated PVC sheathed flame retardant and non-flame retardant power cables load for rated voltages up to 0.6/1kV

在空气中敷设长期连续负荷条件下允许载流量 Installed in air for long term continuously

铜导体 Copper conductor

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

铝导体 Aluminium conductor

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



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**聚氯乙烯绝缘电力电缆**  
PVC insulated power cables

在直埋敷设长期连续负荷条件下允许载流量 Installed direct in ground for long term continuously

铜导体 Copper conductor

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

铝导体 Aluminium conductor

标称截面 cross sec. area of conductor mm <sup>2</sup>	长期连续负荷允许载流量 Current rating(A)											
	无铠装 Unarmoured						铠装 Armoured					
	单芯 single core			双芯 2-cores	三芯 3-cores	五芯 5-cores	单芯 single core			双芯 2-cores	三芯 3-cores	五芯 5-cores
	2根 2 pcs	3根 3 pcs			四芯 4-cores	四芯 (4+1)芯	2根 2 pcs	3根 3 pcs			四芯 4-cores	四芯 (4+1)芯
○○	○○○	○○○	(3+1)芯 (3+1)-cores	(3+2)芯 (3+2)-cores	○○	○○○	○○○	(3+1)芯 (3+1)-cores	(3+2)芯 (3+2)-cores			
2.5	30	25	28	26	23	23	30	25	28	26	23	23
4	39	32	36	35	30	31	39	32	36	35	30	31
6	50	41	47	45	39	40	50	41	47	45	39	40
10	64	52	60	59	50	51	64	52	60	59	50	51
16	83	68	77	77	65	66	83	68	77	77	65	66
25	105	86	98	100	84	85	105	86	98	100	84	85
35	125	103	116	120	100	102	125	103	116	120	100	102
50	150	123	140	145	120	122	150	123	140	145	120	122
70	185	152	172	175	150	153	185	152	172	175	150	153
95	220	180	205	210	185	189	220	180	205	210	185	189
120	250	205	233	245	205	209	250	205	233	245	205	209
150	285	234	265	275	230	235	285	234	265	275	230	235
185	320	262	298	310	260	265	320	262	298	310	260	265
240	375	308	349	-	300	306	375	308	349	-	300	306
300	425	349	395	-	340	347	425	349	395	-	340	347
400	490	402	456	-	-	-	490	402	456	-	-	-
500	560	459	521	-	-	-	560	459	521	-	-	-
630	645	529	560	-	-	-	645	529	560	-	-	-
800	735	603	684	-	-	-	735	603	684	-	-	-



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## 架空绝缘电缆

Aerial insulated cables

### 架空绝缘电缆 Aerial insulated cables

#### 电缆结构 Construction of cables

结构 Construction	型号、名称 Type、description	
单芯 Single cores 	JKV	铜芯聚氯乙烯绝缘架空电缆 Cu-conductor PVC insulated aerial cables
	JKLV	铝芯聚氯乙烯绝缘架空电缆 Al-conductor PVC insulated aerial cables
四芯 four-cores 	JKY	铜芯聚乙烯绝缘架空电缆 Cu-conductor PE insulated aerial cables
	JKLY	铝芯聚乙烯绝缘架空电缆 Al-conductor PE insulated aerial cables
1. 导体 Conductor 2. 绝缘 Insulation	JKYJ	铜芯交联聚乙烯绝缘架空电缆 Cu-conductor XLPE insulated aerial cables
	JKRYJ	软铜芯交联聚乙烯绝缘架空电缆 Flexible Cu-conductor XLPE insulated aerial cables
1. 导体 Conductor 2. 绝缘 Insulation	JKLYJ	铝芯交联聚乙烯绝缘架空电缆 Al-conductor XLPE insulated aerial cables
	JKYJZ	铜芯交联聚乙烯绝缘自承重三芯成束架空电缆 Cu-conductor XLPE insulated and self-supporting triplex aerial cables with inessenger wire
1. 承重线 Messenger wire 2. 绕扎线 Lashing wire 3. 导体 Conductor 4. 绝缘 Insulation 		

例：额定电压 0.6/1kV 铜芯交联聚乙烯绝缘架空电缆、单芯、标称截面为 70mm<sup>2</sup> 表示为：JKYJ-0.6/11 × 70  
 Sample: 0.6/1kV Cu-single-core, XLPE insulated, cross-sectional area 70mm<sup>2</sup> aerial cable; JKYJ-0.6/11 × 70.

结构 Construction	型号、名称 Type、description	
单芯 Single cores 	JKYJ	铜芯交联聚乙烯绝缘架空电缆 Cu-conductor XLPE insulated aerial cables
三芯 three cores 	JKRYJ	软铜芯交联聚乙烯绝缘架空电缆 Flexible Cu-conductor XLPE insulated aerial cables
	JKLYJ	铝芯交联聚乙烯绝缘架空电缆 Al-conductor XLPE insulated aerial cables
1. 导体 Conductor 2. 导体屏蔽 Conductor screen 3. 交联聚乙烯绝缘 XLPE insulation 4. 绝缘屏蔽 Insulation screen 	JKRYJV	软铜芯交联聚乙烯绝缘自承重三芯成束架空电缆 Flexible Cu-conductor XLPE insulated and self-supporting triplex aerial cables with inessenger wire
	JKLYJV	铝芯交联聚乙烯绝缘自承重三芯成束架空电缆 Al-conductor XLPE insulated and self-supporting triplex aerial cables with inessenger wire

例：额定电压 8.7/10kV 铜芯交联聚乙烯绝缘三芯成束架空电缆，标称截面为 120mm<sup>2</sup>，承载导线为 95mm<sup>2</sup> 表示为：JKRYJV-8.7/10 3 × 120+95  
 Sample: 8.7/10kV Cu-core, 120mm<sup>2</sup>, XLPE insulated and self-supporting triplex aerial cable with 95mm<sup>2</sup> messenger wire; JKRYJV-8.7/10 3 × 120+95.





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## 架空绝缘电缆

Aerial insulated cables

### 0.6/1kV交联聚乙烯绝缘架空电缆

Aerial cables with XLPE insulation for rated voltages up to 0.6/1kV

#### 产品简介 Introduction

本产品适用于额定电压0.6/1kV及以下的架空电力配电线路。电缆的机械性能及电性能符合GB 12527-90《额定电压1kV及以下架空绝缘电缆》国家标准。

These cables are suitable for installation in power distribution lines for rated voltages up to 0.6/1kV. The mechanical and electrical characteristics of cables are in accordance with the Chinese national standard GB12527-90 (The aerial cables for rated voltages up to 1kV).

#### 电缆的电气和机械性能 Electrical and mechanical characteristics

表1: 0.6/1kV交联聚乙烯绝缘架空电缆的电气和机械性能

Table 1: Electrical and mechanical characteristics of XLPE insulated aerial cables for rated voltages up to 0.6/1kV

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	20°C时导体直流电阻 不大于 Max. DC resistance of each conductor at 20°C Ω/km			90°C时最小绝缘电阻 Min. insulation resistance at 90°C MΩ/KM	电缆拉断力 不小于 Min. breaking strength of cables N		不锈钢丝抗张强度不小于 min. tension strength of stainless steel wire N/mm <sup>2</sup>
	铜芯 Cu	软铜芯 Flexible-copper	铝芯 Al		铜芯 Cu	铝芯 Al	
10	1.83	1.906	3.08	0.67	3471	1650	630
16	1.15	1.198	1.91	0.65	5486	2517	630
25	0.727	0.749	1.20	0.54	8465	3762	630
35	0.524	0.540	0.868	0.54	11731	5177	630
50	0.387	0.399	0.641	0.46	16502	7011	630
70	0.268	0.276	0.443	0.40	23461	10354	630
95	0.193	0.199	0.320	0.39	31759	13727	630
120	0.153	0.158	0.253	0.35	39911	17339	630
150	0.124	0.128	0.206	0.35	49505	21033	630
185	0.0991	0.1021	0.164	0.35	61846	26732	630
240	0.0754	0.0777	0.125	0.34	78923	34679	630

#### 使用特性 Instruction of application

1. 额定电压(U<sub>0</sub>/U): 0.6/1kV

Rated voltages(U<sub>0</sub>/U): 0.6/1kV

2. 电缆的敷设温度: ≥0°C

The ambient temperature for cable installation: ≥0°C

3. 电缆导体的长期允许工作温度: ≤90°C

Maximum conductor temperature in normal operation: ≤90°C

4. 电缆导体短路时(最长时间不超过5S)的最高工作温度: 250°C

Max working temperature, when cable short-circuited(5s maximum duration): 250°C

## 架空绝缘电缆

### Aerial insulated cables

#### 5、电缆的允许弯曲半径：

Permissible bending radius:

单芯电缆：电缆外径(D)小于 25mm，应不小于 4D

Single-core cables Radius should not less than 4D when the overall diameters(D) less than 25mm;

电缆外径(D)为 25mm 及以上，应不小于 6D

Radius should not less than 6D when the overall diameters(D) less than 25mm;

自承重电缆(成束电缆)：15(D+d) ± 5%，mm

Self-supporting cable (bunched cabled): 15(D+d) ± 5%, mm

D——— 电缆的实际外径, mm

Actual overall diameter, of cables, mm

d——— 电缆导体的实际外径, mm

Actual diameter of Conductors, mm

#### 电缆的连续载流量 Continuous current-ratings of cables

1. 电缆的敷设方式：空气中；

Cables installed in air;

2. 电缆敷设环境温度：40℃

Ambient temperature: 40℃

3. 电缆所有的光照强度：1000w/m<sup>2</sup>

Intensity of solar radiation: 1000w/m<sup>2</sup>

4. 电缆连续载流量的参考值(表4)

Continuous current-ratings of cables(Table 4);

表2: 0.6/1kV 交联聚乙烯绝缘架空电缆载流量

Table2: Continuous current-ratings of aerial cables with XLPE insulated cables for rated voltages up to 0.6/1kV

单位：安培 ( A ) Unit(A)

型号 Type	JKYJ-0.6/1 JKRYJ-0.6/1 JKLYJ-0.6/1					JKYJZ-0.6/1
	芯数 Core	单芯 Single cores			四芯 four-cores	
标称截面 Nominal cross-sectional area of conductor mm <sup>2</sup>	铜芯 Cu	软铜芯 Flexible-copper	铝芯 Al	软铜芯 Flexible-copper	铝芯 Al	3+K 铜芯 Cu
10	—	—	—	58.2	44.8	—
16	112.1	113.9	88.1	77.7	60.1	—
25	150.3	151.8	117.9	103.7	80.5	115.1
35	185.6	187.6	145.4	128.7	99.8	140.7
50	225.7	228.2	176.8	157.0	121.7	170.1
70	286.5	289.4	224.6	199.4	154.7	215.3
95	355.3	359.2	278.3	248.4	192.5	265.4
120	411.9	416.8	323.4	288.2	223.8	308.5
150	474.9	480.3	372.0	—	—	—
185	550.4	556.2	431.9	—	—	—
240	660.2	667.2	518.2	—	—	—



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## 架空绝缘电缆

Aerial insulated cables

### 0.6/1kV交联聚乙烯绝缘架空电缆

Aerial cables with XLPE insulation for rated voltages up to 0.6/1kV

#### 电缆的结构尺寸及重量(表 3, 4, 5) Structure, size and weight (Tables 3, 4, 5)

表3: 单芯电缆的结构尺寸及重量 Table3: Structure, size and weight of single-core cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	电缆近似外径 Approx. overall diameter mm	电缆计算重量 Calculated weight kg/km	
				JKYJJKRYJ	JKLYJ
16	5.0	1.2	7.4	167	68
25	6.3	1.2	8.7	255	96
35	7.4	1.4	10.2	353	135
50	8.7	1.4	11.5	471	175
70	10.5	1.4	13.3	669	241
95	12.4	1.6	15.6	925	332
120	13.8	1.6	17.0	1157	407
150	15.5	1.8	19.1	1424	503
185	17.3	2.0	21.3	1786	630
240	20.0	2.2	24.4	2337	820

表4: 四芯电缆的结构尺寸及重量 Table4: Structure, size and weight of four-core cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	电缆近似外径 Approx. overall diameter mm	电缆计算重量 Calculated weight kg/km	
				JKYJ JKRYJ	JKLYJ
10	4.0	1.2	15.4	533	214
16	5.0	1.2	17.9	682	278
25	6.3	1.2	21.0	1041	400
35	7.4	1.4	24.6	1442	551
50	8.7	1.4	27.8	1924	715
70	10.5	1.4	32.1	2732	984
95	12.4	1.6	37.7	3778	1356
120	13.8	1.6	41.0	4725	1662

表5: 3+K电缆的结构尺寸及重量 Table5: Structure, size and weight of 3+K cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	电缆近似外径 Approx. overall diameter mm	电缆外形尺寸 Size of cables mm	电缆计算重量 Calculated weight kg/km
25	6.1	1.8	3.0 × 6.0	34 × 26	1190
35	7.1	1.8	3.0 × 6.0	37 × 28	1551
50	8.2	1.8	3.0 × 6.0	41 × 30	2016
70	9.9	1.8	3.0 × 6.0	46 × 34	2812
95	11.6	1.8	3.0 × 6.0	50 × 37	3807
120	13.0	1.8	3.0 × 6.0	55 × 40	4734

注: 表中的 3+K 结构电缆的承载面与主线芯截面相等。也可用无护层的硬铜绞线作为电缆的承载线。

Note: The cross-sectional area of messenger wire for 3+K cable in above table can be equivalent to the cross-sectional area of the main conductor Non-sheathed Cu stranded wire can be chosen as messenger wire.

## 架空绝缘电缆

### Aerial insulated cables

## 10kV 交联聚乙烯绝缘架空电缆 Aerial cables with XLPE insulation for rated voltages up to 10kV

### 电缆的电气和机械性能 Electrical and mechanical characteristics

表 1: 10kV 交联聚乙烯绝缘架空电缆的电气和机械性能

Table 1: Electrical and mechanical characteristics of XLPE insulated aerial cables for rated voltages up to 10kV

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	20°C 时导体直流电阻 不大于 Max. DC resistance of each conductor at 20°C Ω/km			电缆拉断力 不小于 Min. breaking strength of cables N		钢承载绞线拉断力 不小于 Min weight-bearing N
	铜芯 Cu	软铜芯 Flexible-copper	铝芯 Al	铜芯 Cu	铝芯 Al	
10	—	1.830	3.080	—	—	—
16	—	1.150	1.910	—	—	—
25	0.727	0.749	1.200	8465	3762	30000
35	0.524	0.540	0.868	11731	5177	42000
50	0.387	0.399	0.641	16502	7011	56550
70	0.268	0.276	0.443	23461	10354	81150
95	0.193	0.199	0.320	31759	13727	110150
120	0.153	0.158	0.253	39911	17339	—
150	0.128	—	0.206	49505	21033	—
185	0.1021	—	0.164	61846	26732	—
240	0.0777	—	0.125	79823	34679	—
300	0.0619	—	0.100	99788	43349	—

### 使用特性 Instruction of application

1. 额定电压: 10kV

Rated voltages: 10kV

2. 电缆的敷设温度:  $\geq 0^{\circ}\text{C}$

The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$

3. 电缆导体的长期允许工作温度:  $\leq 90^{\circ}\text{C}$

Maximum conductor temperature in normal operation:  $\leq 90^{\circ}\text{C}$

4. 电缆导体短路时(最长持续时间不超过 5s)的最高工作温度:  $250^{\circ}\text{C}$

Max conductor temperature, when cable short-circuited(5s maximum duration):  $250^{\circ}\text{C}$

5. 电缆的允许弯曲半径:

Permissible bending radius:

单芯电缆: 电缆外径(D)小于 25mm, 应不小于 4D

Single-core cables: Radius should not less than 4D when the overall diameters(D) less than 25mm;

电缆外径(D)为 25mm 及以上, 应不小于 6D

Radius should not less than 6D when the overall diameters(D) less than 25mm;

自承重电缆(成束电缆):  $15(D+d) \pm 5\%$ , mm

Self-supporting cable (bunched cabled):  $15(D+d) \pm 5\%$ , mm

D——— 电缆的实际外径, mm

Actual overall diameter of cables, mm

d——— 电缆导体的实际外径, mm

Actual diameter of Conductors, mm



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## 架空绝缘电缆

Aerial insulated cables

### 电缆的结构尺寸及重量(表 2, 3, 4) Structure, size and weight (Tables 2, 3, 4)

表2: 单芯电缆的结构尺寸及重量 Table2: Structure, size and weight of single-core cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	导体屏蔽厚度 Normal thickness of conductor screen mm	绝缘标称厚度 Normal thickness of insulation mm	电缆近似外径 Approx. overall diameter mm	电缆计算重量 Calculated weight kg/km	
					JKYJ JKRYJ	JKLYJ
10	4.0	0.6	3.4	12.0	196	121
16	5.0	0.6	3.4	13.0	274	153
25	6.0	0.6	3.4	14.0	353	178
35	7.0	0.6	3.4	15.0	452	237
50	8.1	0.6	3.4	16.1	576	284
70	9.9	0.6	3.4	17.9	785	364
95	11.5	0.7	3.4	19.7	1045	461
120	12.9	0.7	3.4	21.1	1283	547
150	14.3	0.7	3.4	22.5	1551	643
185	16.0	0.7	3.4	24.2	1902	765
240	18.4	0.7	3.4	26.6	2446	953
300	20.6	0.7	3.4	28.8	3286	1223

表3: 三芯电缆的结构尺寸及重量 Table3: Structure, size and weight of single-core cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	导体屏蔽厚度 Normal thickness of conductor screen mm	绝缘标称厚度 Normal thickness of insulation mm	绝缘屏蔽厚度 Normal thickness of insulation mm	电缆近似外径 Approx. overall diameter mm	电缆计算重量 Calculated weight kg/km	
						JKYJ JKRYJ	JKLYJ
25	6.0	0.6	3.4	1.0	34.2	1081	545
35	7.0	0.6	3.4	1.0	36.3	1384	726
50	8.1	0.6	3.4	1.0	38.7	1764	870
70	9.9	0.6	3.4	1.0	42.6	2401	1115
95	11.5	0.7	3.4	1.0	46.4	3201	1412
120	12.9	0.7	3.4	1.0	49.4	3930	1675
150	14.3	0.7	3.4	1.0	52.5	4751	1970
185	16.0	0.7	3.4	1.0	56.1	5826	2343
240	18.4	0.7	3.4	1.0	61.3	7492	2919
300	20.6	0.7	3.4	1.0	66.0	10065	3746

电缆的连续载流量 Continuous current-ratings of cables

- 1、电缆的敷设方式: 空气中;  
Cables installed in air;
- 2、电缆的敷设环境温度: 40°C  
Ambient temperature: 40°C
- 3、电缆所受的光照强度: 1000W/m<sup>2</sup>  
Intensity of solar radiation: 1000W/m<sup>2</sup>

## 架空绝缘电缆

### Aerial insulated cables

#### 4. 电缆连续载流量的参考值(表5) continuous current ratings of cables (table 5)

表4 3+K电缆的结构尺寸和重量 Table 4 Structure, size and weight of 3+K cables

标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	导体参考外径 Referred Overall diameter of conductor mm	导体屏蔽厚度 Normal thickness of conductor screen mm	绝缘标称厚度 Normal thickness of insulation mm	绝缘屏蔽厚度 Normal thickness of insulation mm	护套厚度 Normal thickness of sheath mm	绕扎线尺寸 Size of lashing wire mm	电缆外形尺寸 Size of cables mm	电缆计算重量 Calculated weight kg/km	
								JKRYJV	JKLYJV
25	6.0	0.8	4.5	0.8	1.7	3.0 × 6.0	52 × 50	2049	—
35	7.0	0.8	4.5	0.8	1.7	3.0 × 6.0	55 × 51	2833	2174
50	8.7	0.8	4.5	0.8	1.8	3.0 × 6.0	59 × 54	3424	2532
70	9.9	0.8	4.5	0.8	1.8	3.0 × 6.0	64 × 57	4318	3031
95	11.5	0.8	4.5	0.8	1.9	3.0 × 6.0	69 × 63	5426	3638
120	12.9	0.8	4.5	0.8	1.9	3.0 × 6.0	73 × 64	6235	3980
150	14.3	0.8	4.5	0.8	2.0	3.0 × 6.0	77 × 67	7171	4388
185	16.0	0.8	4.5	0.8	2.0	3.0 × 6.0	82 × 70	8230	4748
240	18.4	0.8	4.5	0.8	2.1	3.0 × 6.0	89 × 76	10084	5511

注: 25–95mm<sup>2</sup>的电缆, 钢承载线的截面与导电线芯的截面相同; 95mm<sup>2</sup>以上电缆钢承载线的截面均为 95mm<sup>2</sup>。

Note: The cross-sectional area of steel messenger wire can be equivalent to the cross-sectional area of the main conductor for 25–95mm<sup>2</sup> cable conductor cross-sectional areas; the cross-sectional area of the steel wire can be all 95mm<sup>2</sup> in excess of 95mm<sup>2</sup> cable conductor cross-sections.

表5: 10kV 交联聚乙烯绝缘架空电缆载流量

Table 5: Current ratings of aerial cables with XLPE insulation for rated voltages up to 10kV

单位: 安培(A) Unit: (A)

型号 Type	JKYJ-0.6/1 JKRYJ-0.6/1 JKLYJ-0.6/1						JKRYJV-10 JKLYJV-10	
	单芯 Single cores			三芯 3-cores			3+K	
芯数 Core								
标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>	铜芯 Cu	软铜芯 Flexible-copper	铝芯 Al	铜芯 Cu	软铜芯 Flexible-copper	铝芯 Al	软铜芯 Flexible-copper	铝芯 Al
10	91.2	92.7	71.2	—	—	—	—	—
16	119.8	121.7	94.2	—	—	—	—	—
25	157.1	158.7	123.2	121.1	122.4	95.0	108.9	—
35	191.1	193.1	149.6	147.1	148.6	115.2	132.1	102.3
50	229.6	232.1	179.8	176.2	178.1	138.1	157.2	121.8
70	289.4	292.4	226.8	221.5	223.8	173.7	196.1	152.1
95	353.8	357.7	277.1	270.5	273.5	211.9	238.0	184.5
120	409.0	413.8	321.1	312.2	315.8	245.1	273.8	212.5
150	467.0	472.4	365.9	355.9	360.0	278.9	310.8	240.8
185	539.2	544.8	423.0	410.2	414.4	321.9	351.3	272.9
240	642.6	649.4	504.4	487.6	492.7	383.0	453.2	352.1
300	744.3	750.7	582.9	563.1	568.0	441.7	—	—



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聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

电缆型号名称及使用范围 Type Designation and Main applications of Cable

型号Type	名称Designation	使用范围 Main application
KW	铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆 Copper conductor PVC insulated and sheathed control cables	敷设在室内、电缆沟、管道等固定场合 For laying indoors, in trenches and in ducts, and for fixed installation
KWP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆 Copper conductor PVC insulated and sheathed control cable with copper wire braid	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches and in ducts, the cable should be shielded, and for fixed installation
KW <sub>P2</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆 Copper conductor PVC insulated and sheathed control cables with copper tape shield	敷设在室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches and in ducts, the cable should be shielded, and for fixed installation
KW <sub>Z2</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆 Copper conductor PVC insulated and sheathed control cable with steel tape armour	敷设在室内、电缆沟、管道、直埋等能承受较重机械外力的固定场合 For laying indoors, in trenches, in ducts and in ground, able to withstand heavier mechanical fore, and for fixed installation.
KW <sub>32</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装控制电缆 Copper conductor PVC insulated and sheathed control cable with steel wire armour	敷设在室内、电缆沟、管道、竖井等能承受较大机械外力的固定场合 For laying indoors, in trenches, in ducts and down wells, able to bear heavier pulling force, and for fixed installation.
KWR	铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆 Copper conductor PVC insulated and sheathed flexible control cable with shield	敷设在室内移动要求柔软等场合 For laying indoors, movable and flexible.
KWRP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制软电缆 Copper conductor PVC insulated and sheathed flexible control cable with shield	敷设在室内移动要求柔软、屏蔽等场合 For laying indoors, that the cable should be shielded.
ZR-KW	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable	敷设在有阻燃要求的室内、电缆沟、管道等固定场合 For laying indoors, in trenches, in ducts and for fixed installation. The cable should be flame retardance.
ZR-KWP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with copper braid	敷设在有阻燃要求的室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches, in ducts and for fixed installation. The cable should be flame retardance and for fixed installation.
ZR-KW <sub>P2</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with copper tape shield	敷设在有阻燃要求的室内、电缆沟、管道等要求屏蔽的固定场合 For laying indoors, in trenches, in ducts and for fixed installation. The cable should be flame retardance and for fixed installation.
ZR-KW <sub>Z2</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with steel tape armour	敷设在有阻燃要求的室内、电缆沟、管道、直埋等能承受较大机械拉力固定场合 For laying indoors, in trenches, in ducts and underground. The cable should be flame retardance and able to bear heavier external mechanical force, and for fixed installation.
ZR-KW <sub>32</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套细钢丝铠装阻燃控制电缆 Copper conductor PVC insulated and sheathed flame retardant control cable with fine steel wire armour	敷设在有阻燃要求的室内、电缆沟、管道、竖井等能承受较大机械拉力固定场合 For laying indoors, in trenches, in ducts and down wells ect. in which the cable should be flame retardant, and able to bear heavier external mechanical force, and for fixed installation.
ZR-KWR	铜芯聚氯乙烯绝缘聚氯乙烯护套阻燃控制软电缆 Copper conductor PVC insulated and sheathed flame retardant flexible control cable	敷设在有阻燃要求的室内可移动柔软等场合 For laying indoors. and the cable should be flame - netardant flexible and movable.
ZR-KWRP	铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽阻燃控制软电缆 Copper conductor PVC insulated and sheathed flame retardant flexible control cable with shield	敷设在有阻燃要求的室内移动柔软屏蔽等场合 For laying indoors. and the cable should be flame- retardant flexible , movable and shielded.
KWRP <sub>1</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套铜丝缠绕屏蔽控制软电缆 Copper conductor PVC insulated and sheathed flame retardant flexible control cable	敷设在有阻燃要求的室内移动柔软屏蔽等场合 For laying indoors. and the cable should be flame- retardant flexible , movable and shielded.
KWRP <sub>3</sub>	铜芯聚氯乙烯绝缘聚氯乙烯护套铝复合带屏蔽控制软电缆 Copper conductor PVC insulated and sheathed flame retardant flexible control cable	敷设在有阻燃要求的室内移动柔软屏蔽等场合 For laying indoors. and the cable should be flame- retardant flexible , movable and shielded.



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Copper conductor PVC insulated and sheathed control cable

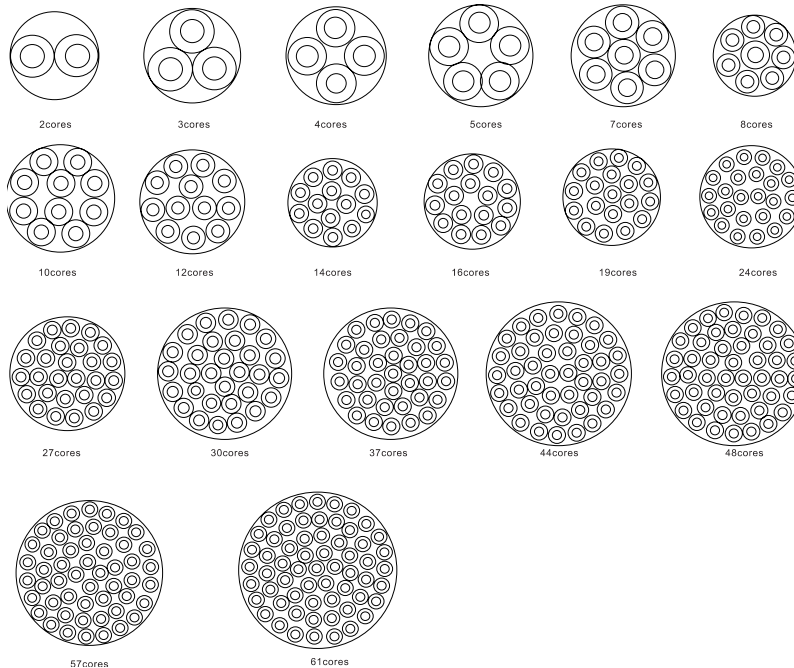
铜芯聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

生产范围 Range of production

型号 Type	额定电压 Rated voltage V	导体标称截面 Normal cross-sectional area of conductor mm <sup>2</sup>						
		0.5	0.75	1.0	1.5	2.5	4	6
		芯数 No. of cores						
KVKVP ZR-KW ZR-KWP	450/750	-	2-61			2-14		2-10
KWP <sub>2</sub> ZR-KWP <sub>2</sub>		-	4-61			4-14		4-10
KVV <sub>22</sub> ZR-KVV <sub>22</sub>		-	7-61			4-61	4-14	4-10
KVV <sub>32</sub> ZR-KVV <sub>32</sub>		-	19-61		7-61		4-14	4-10
KWR ZR-KWR		4-61			—		—	
KVVRP P <sub>1</sub> P <sub>3</sub> ZR-KVVRP P <sub>1</sub> P <sub>3</sub>		4-61		4-48		—		

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: The series of No. of cores will be recommended as follows 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61 cores.







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聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

**KVV 型、ZR-KVV 型 450/750V 铜芯聚氯乙烯绝缘氯乙烯护套控制电缆**  
Type KVV, ZR-KVV control cable with PVC insulated and sheathed for rated voltages up to 450/750V

电缆结构材料及性能 Construction, size and Properties of Cables

芯数 × 标称截面 Cores × Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor.thickness of insulation mm	护套标称厚度 Nor.thickness of sheath mm	平均外径Pitch Diameter mm		最小绝缘电阻Min Resistance of insulation at 70°C MΩ.km	最大直流电阻 Max.D.C Resistance at 20°C Ω/km
				下限 min	上限 max		
2×0.75	1	0.6	1.2	6.4	8.0	0.012	24.5
2×0.75	2	0.6	1.2	6.6	8.4	0.014	24.5
2×1.0	1	0.6	1.3	6.8	8.4	0.011	18.1
2×1.0	2	0.6	1.3	6.8	8.8	0.013	18.1
2×1.5	1	0.7	1.3	7.6	9.4	0.011	12.1
2×1.5	2	0.7	1.3	7.8	10.0	0.010	12.1
2×2.5	1	0.8	1.3	8.6	10.5	0.010	7.41
2×2.5	2	0.8	1.3	9.0	11.5	0.009	7.41
2×4	1	0.8	1.3	9.6	11.5	0.0085	4.61
2×4	2	0.8	1.3	10.0	12.5	0.0077	4.61
2×6	1	0.8	1.5	10.5	12.5	0.0070	3.08
2×6	2	1.0	1.5	11.0	14.0	0.0065	3.08
2×10	2	1.0	1.5	14.0	17.5	0.0065	1.83
3×0.75	1	0.6	1.2	6.8	8.4	0.012	24.5
3×0.75	2	0.6	1.3	7.0	8.8	0.014	24.5
3×1.0	1	0.6	1.3	7.0	8.8	0.011	18.1
3×1.0	2	0.6	1.3	7.2	9.2	0.013	18.1
3×1.5	1	0.7	1.3	8.0	9.6	0.011	12.1
3×1.5	2	0.7	1.3	8.2	10.5	0.010	12.1
3×2.5	1	0.8	1.3	9.2	11.0	0.010	7.41
3×2.5	2	0.8	1.3	9.4	12.0	0.009	7.41
3×4	1	0.8	1.3	10.0	12.5	0.0085	4.61
3×4	2	0.8	1.3	10.5	13.5	0.0077	4.61
3×4	1	0.8	1.5	11.5	14.0	0.0070	3.08
3×6	1	0.8	1.5	12.0	15.0	0.0065	3.08
3×6	2	1.0	1.5	12.5	16.5	0.0065	3.08
3×10	2	1.0	1.5	14.5	18.5	0.0065	1.83
4×0.75	1	0.6	1.3	7.2	9.0	0.012	24.5
4×0.75	2	0.6	1.3	7.4	9.6	0.014	24.5
4×1.0	1	0.6	1.3	7.6	9.4	0.011	18.1
4×1.0	2	0.6	1.3	7.8	10.0	0.013	18.1
4×1.5	1	0.7	1.3	8.6	10.5	0.011	12.1
4×1.5	2	0.7	1.3	9.0	11.5	0.010	12.1
4×2.5	1	0.8	1.3	10.0	12.0	0.010	7.41
4×2.5	2	0.8	1.3	10.0	13.0	0.009	7.41
4×4	1	0.8	1.3	11.5	14.0	0.0085	4.61
4×4	2	0.8	1.3	12.0	15.0	0.0077	4.61
4×6	1	0.8	1.5	12.5	15.0	0.0070	3.08
4×6	2	0.8	1.5	13.0	16.5	0.0065	3.08
4×10	2	1.0	1.5	16.0	20.0	0.0065	1.83
5×0.75	1	0.6	1.3	7.8	9.6	0.012	24.5
5×0.75	2	0.6	1.3	8.0	10.5	0.014	24.5
5×1.0	1	0.6	1.3	8.2	11.0	0.011	18.1
5×1.0	2	0.6	1.3	8.4	11.5	0.013	18.1
5×1.5	1	0.7	1.3	9.0	12.5	0.011	12.1
5×1.5	2	0.7	1.3	9.8	14.0	0.010	12.1
5×2.5	1	0.8	1.3	11.5	14.0	0.010	7.41
5×2.5	2	0.8	1.3	11.5	15.0	0.009	7.41
5×4	1	0.8	1.3	12.5	16.5	0.0085	4.61
5×4	2	0.8	1.3	13.0	18.0	0.0077	4.61
5×6	1	0.8	1.5	14.0	18.0	0.0070	3.08
5×6	2	0.8	1.5	14.5	19.5	0.0065	3.08
5×10	2	1.0	1.5	18.0	22.5	0.0065	1.83
7×0.75	1	0.6	1.3	8.4	10.5	0.012	24.5
7×0.75	2	0.6	1.3	8.6	11.0	0.014	24.5
7×1.0	1	0.6	1.3	9.0	11.0	0.011	18.1
7×1.0	2	0.6	1.3	9.2	11.5	0.013	18.1
7×1.5	1	0.7	1.3	10.0	12.5	0.011	12.1
7×1.5	2	0.7	1.3	10.5	13.5	0.010	12.1
7×2.5	1	0.8	1.3	12.5	15.0	0.010	7.41
7×2.5	2	0.8	1.3	12.5	16.0	0.009	7.41
7×4	1	0.8	1.3	13.5	16.5	0.0085	4.61
7×4	2	0.8	1.3	14.0	17.5	0.0077	4.61
7×6	1	0.8	1.5	15.0	18.0	0.0070	3.08
7×6	2	0.8	1.5	15.5	19.5	0.0065	3.08
8×0.75	1	0.6	1.3	9.4	11.5	0.012	24.5
8×0.75	2	0.6	1.3	9.6	12.0	0.014	24.5
8×1.0	1	0.6	1.3	10.0	12.0	0.011	18.1
8×1.0	2	0.6	1.3	10.0	13.0	0.013	18.1
8×1.5	1	0.7	1.3	11.5	14.5	0.011	12.1
8×1.5	2	0.7	1.3	12.0	15.5	0.010	12.1
8×2.5	1	0.8	1.3	14.0	16.5	0.010	7.41
8×2.5	2	0.8	1.3	14.0	17.5	0.009	7.41
8×4	1	0.8	1.3	16.0	18.0	0.0085	4.61
8×4	2	0.8	1.3	17.5	19.5	0.0077	4.61
8×6	1	0.8	1.5	18.0	20.0	0.0070	3.08
8×6	2	0.8	1.5	18.0	22.0	0.0065	3.08
10×0.75	1	0.6	1.2	10.5	12.5	0.012	24.5
10×0.75	2	0.6	1.2	10.5	13.5	0.014	24.5
10×1.0	1	0.6	1.3	11.5	14.0	0.011	18.1
10×1.0	2	0.6	1.3	12.0	15.0	0.013	18.1
10×1.5	1	0.7	1.3	13.5	16.0	0.011	12.1
10×1.5	2	0.7	1.3	14.0	17.0	0.010	12.1
10×2.5	1	0.8	1.3	15.5	18.5	0.010	7.41
10×2.5	2	0.8	1.3	16.0	19.5	0.009	7.41
10×4	1	0.8	1.7	18.0	20.5	0.0085	4.61
10×4	2	0.8	1.7	18.5	22.5	0.0077	4.61
12×0.75	1	0.6	1.5	11.5	13.5	0.012	24.5
12×0.75	2	0.6	1.5	11.5	14.5	0.014	24.5
12×1.0	1	0.6	1.5	12.0	14.5	0.011	18.1
12×1.0	2	0.6	1.5	12.5	15.5	0.013	18.1



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聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and  
sheathed control cable

芯数×标称截面 Cores × Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor.thickness of insulation mm	护套标称厚度 Nor.thickness of sheath mm	平均外径Pitch Diameter mm		最小绝缘电阻Min Resistance of insulation at 70°C M.Ω.km	最大直流电阻 Max D.C Resistance at 20°C Ω/km
				下限 min	上限 max		
12 × 1.5	1	0.7	1.5	14.0	16.5	0.011	12.1
12 × 2.5	1	0.8	1.5	14.0	17.5	0.010	12.1
12 × 2.5	2	0.8	1.5	16.0	19.0	0.010	7.41
12 × 2.5	1	0.8	1.5	16.5	20.0	0.009	7.41
12 × 4	1	0.8	1.7	18.5	21.5	0.0085	4.61
12 × 6	2	0.8	1.7	19.0	23.0	0.0077	4.61
12 × 6	1	0.8	1.7	20.5	23.5	0.0070	3.08
12 × 6	2	0.8	1.7	21.0	26.0	0.0065	3.08
14 × 0.75	1	0.6	1.5	12.0	14.5	0.012	24.5
14 × 0.75	2	0.6	1.5	12.0	15.0	0.014	24.5
14 × 1.0	1	0.6	1.5	12.5	15.0	0.011	18.1
14 × 1.0	2	0.6	1.5	13.0	16.0	0.013	18.1
14 × 1.0	1	0.7	1.5	14.5	17.0	0.011	12.1
14 × 1.5	1	0.7	1.5	15.0	18.5	0.010	12.1
14 × 2.5	1	0.8	1.5	17.0	19.5	0.010	7.41
14 × 2.5	2	0.8	1.5	17.5	21.5	0.009	7.41
14 × 4	1	0.8	1.7	19.5	22.5	0.0085	4.61
14 × 4	2	0.8	1.7	20.0	24.5	0.0077	4.61
16 × 0.75	1	0.6	1.5	12.5	15.0	0.012	24.5
16 × 0.75	2	0.6	1.5	13.0	16.0	0.014	24.5
16 × 1.0	1	0.6	1.5	13.0	15.5	0.011	18.1
16 × 1.0	2	0.6	1.5	13.5	17.0	0.013	18.1
16 × 1.5	1	0.7	1.5	15.0	18.0	0.011	12.1
16 × 1.5	2	0.7	1.5	15.5	19.5	0.010	12.1
16 × 2.5	1	0.8	1.7	18.0	21.0	0.010	7.41
16 × 2.5	2	0.8	1.7	19.0	23.0	0.009	7.41
19 × 0.75	1	0.6	1.5	13.0	15.5	0.012	24.5
19 × 0.75	2	0.6	1.5	13.5	16.5	0.014	24.5
19 × 1.0	1	0.6	1.5	14.0	16.5	0.011	18.1
19 × 1.0	2	0.6	1.5	14.5	17.5	0.013	18.1
19 × 1.5	1	0.7	1.5	16.5	19.0	0.011	12.1
19 × 1.5	2	0.7	1.5	16.5	20.5	0.010	12.1
19 × 2.5	1	0.8	1.7	19.0	22.0	0.010	7.41
19 × 2.5	2	0.8	1.7	20.0	24.0	0.009	7.41
24 × 0.75	1	0.6	1.5	15.0	18.0	0.012	24.5
24 × 0.75	2	0.6	1.5	15.5	19.0	0.014	24.5
24 × 1.0	1	0.6	1.5	16.0	19.0	0.011	18.1
24 × 1.0	2	0.6	1.5	16.5	20.5	0.013	18.1
24 × 1.5	1	0.7	1.7	19.0	22.0	0.011	12.1
24 × 1.5	2	0.7	1.7	20.0	24.0	0.010	12.1
24 × 2.5	1	0.8	1.7	22.5	25.5	0.010	7.41
24 × 2.5	2	0.8	1.7	23.0	28.0	0.009	7.41
27 × 0.75	1	0.6	1.5	15.5	18.0	0.012	24.5
27 × 0.75	2	0.6	1.5	16.0	19.5	0.014	24.5
27 × 1.0	1	0.6	1.5	16.5	19.0	0.011	18.1
27 × 1.0	2	0.6	1.5	17.0	20.5	0.013	18.1
27 × 1.5	1	0.7	1.7	19.5	22.5	0.011	12.1
27 × 1.5	2	0.7	1.7	20.0	24.5	0.010	12.1
27 × 2.5	1	0.8	1.7	23.0	26.0	0.010	7.41
27 × 2.5	2	0.8	1.7	23.5	28.5	0.009	7.41
30 × 0.75	2	0.6	1.5	16.0	19.0	0.012	24.5
30 × 0.75	1	0.6	1.5	16.5	20.0	0.014	24.5
30 × 1.0	1	0.6	1.7	17.0	20.5	0.011	18.1
30 × 1.0	2	0.6	1.7	18.0	22.0	0.013	18.1
30 × 1.5	1	0.7	1.7	20.0	23.0	0.011	12.1
30 × 1.5	2	0.7	1.7	21.0	25.0	0.010	12.1
30 × 2.5	1	0.8	1.7	24.0	27.0	0.010	7.41
30 × 2.5	2	0.8	1.7	24.5	29.5	0.009	7.41
37 × 0.75	1	0.6	1.7	17.5	20.5	0.012	24.5
37 × 0.75	2	0.6	1.7	18.0	22.0	0.014	24.5
37 × 1.0	1	0.6	1.7	18.5	21.5	0.011	18.1
37 × 1.0	2	0.6	1.7	19.5	23.5	0.013	18.1
37 × 1.5	1	0.7	1.7	21.5	25.0	0.011	12.1
37 × 1.5	2	0.7	1.7	22.5	27.0	0.010	12.1
37 × 2.5	1	0.8	1.7	25.5	29.0	0.010	7.41
37 × 2.5	2	0.8	1.7	26.5	31.5	0.009	7.41
44 × 0.75	1	0.6	1.5	19.5	23.0	0.012	24.5
44 × 0.75	2	0.6	1.5	20.5	24.5	0.014	24.5
44 × 1.0	1	0.6	1.7	21.0	24.0	0.011	18.1
44 × 1.0	2	0.6	1.7	21.5	26.0	0.013	18.1
44 × 1.5	1	0.7	1.7	24.5	28.0	0.011	12.1
44 × 1.5	2	0.7	1.7	25.5	30.5	0.010	12.1
44 × 2.5	1	0.8	2.0	29.5	33.5	0.010	7.41
44 × 2.5	2	0.8	2.0	30.5	36.0	0.009	7.41
48 × 0.75	1	0.6	1.7	20.0	23.0	0.012	24.5
48 × 0.75	2	0.6	1.7	20.5	25.5	0.014	24.5
52 × 1.0	1	0.6	1.7	22.0	25.0	0.011	18.1
52 × 1.0	2	0.6	1.7	22.5	27.0	0.013	18.1
52 × 1.5	1	0.7	1.7	25.5	29.0	0.011	12.1
52 × 1.5	2	0.7	1.7	26.5	31.5	0.010	12.1
52 × 2.5	1	0.8	2.0	31.0	35.0	0.010	7.41
52 × 2.5	2	0.8	2.0	32.0	38.0	0.009	7.41
61 × 0.75	1	0.6	1.7	22.0	25.0	0.012	24.5
61 × 0.75	2	0.6	1.7	22.5	27.0	0.014	24.5
61 × 1.0	1	0.6	1.7	23.0	26.5	0.011	18.1
61 × 1.0	2	0.6	1.7	24.0	28.5	0.013	18.1
61 × 1.5	1	0.7	2.0	27.5	31.0	0.011	12.1
61 × 1.5	2	0.7	2.0	28.5	34.0	0.010	12.1



**中国·人民电器集团**  
PEOPLE ELE. APPLIANCE GROUP CHINA

中国驰名商标 | 中国 500 强企业

聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

**KVVP 型、ZR-KVVP 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套编织屏蔽控制电缆**  
Type KVVP, ZR-KVVP copper conductor PVC insulated and sheathed control cable with copper wire braid for rated voltages up to 450/750V

芯数 × 标称截面 Cores × Nor. cross-sectional areamm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor. thickness of insulation mm	屏蔽单线 标称直径 Nor. dia. of screen wire mm	护套标称厚度 Nor. thickness of sheath mm	平均外径 Pitch Diameter mm		最小绝缘电阻 Min Resistance of insulation at 70°C MΩ.km	最大直流电阻 Max D.C Resistance at 20°C Ω/km
					下限 min	上限 max		
2 × 0.75	2	0.6	0.15	1.2	7.8	9.8	0.014	24.5
2 × 1.0	2	0.6	0.15	1.2	8.2	10.5	0.013	18.1
2 × 1.5	2	0.7	0.15	1.2	9.2	11.5	0.010	12.1
2 × 2.5	2	0.8	0.15	1.2	10.0	12.5	0.009	7.41
2 × 4	2	0.8	0.20	1.5	11.5	14.5	0.0077	4.61
2 × 6	2	0.8	0.20	1.5	13.0	16.0	0.0065	3.08
2 × 10	2	1.0	0.20	1.5	15.5	19.0	0.0065	1.83
3 × 0.75	2	0.6	0.15	1.2	8.2	10.5	0.014	24.5
3 × 1.0	2	0.6	0.15	1.2	8.6	10.5	0.013	18.1
3 × 1.5	2	0.7	0.15	1.2	9.6	12.0	0.010	12.1
3 × 2.5	2	0.8	0.15	1.2	10.5	13.5	0.009	7.41
3 × 4	2	0.8	0.20	1.5	12.5	15.5	0.0077	4.61
3 × 6	2	0.8	0.20	1.5	13.5	17.0	0.0065	3.08
3 × 10	2	1.0	0.20	1.5	16.5	20.0	0.0065	1.83
4 × 0.75	2	0.6	0.15	1.2	8.8	11.0	0.014	24.5
4 × 1.0	2	0.6	0.15	1.2	9.2	11.5	0.013	18.1
4 × 1.5	2	0.7	0.15	1.2	10.0	12.5	0.010	12.1
4 × 2.5	2	0.8	0.20	1.5	12.5	15.0	0.009	7.41
4 × 4	2	0.8	0.20	1.5	13.5	16.5	0.0077	4.61
4 × 6	2	0.8	0.20	1.5	15.0	18.0	0.0065	3.08
4 × 10	2	1.0	0.20	1.7	18.0	22.0	0.0065	1.83
5 × 0.75	2	0.6	0.15	1.2	9.4	11.5	0.014	24.5
5 × 1.0	2	0.6	0.15	1.2	9.8	12.0	0.013	18.1
5 × 1.5	2	0.7	0.15	1.2	11.0	13.5	0.010	12.1
5 × 2.5	2	0.8	0.20	1.5	13.5	16.5	0.009	7.41
5 × 4	2	0.8	0.20	1.5	14.5	18.0	0.0077	4.61
5 × 6	2	0.8	0.20	1.5	16.0	19.5	0.0065	3.08
5 × 10	2	1.0	0.20	1.7	19.5	24.0	0.0065	1.83
7 × 0.75	2	0.6	0.15	1.2	10.0	12.5	0.014	24.5
7 × 1.0	2	0.6	0.15	1.2	10.5	13.0	0.013	18.1
7 × 1.5	2	0.7	0.15	1.2	12.5	15.0	0.010	12.1
7 × 2.5	2	0.8	0.20	1.5	14.5	17.5	0.009	7.41
7 × 4	2	0.8	0.20	1.5	15.5	19.0	0.0077	4.61
7 × 6	2	0.8	0.20	1.5	15.7	21.0	0.0065	3.08
7 × 10	2	1.0	0.20	1.7	21.5	26.0	0.0065	1.83
8 × 0.75	2	0.6	0.15	1.2	11.0	13.5	0.014	24.5
8 × 1.0	2	0.6	0.15	1.5	12.0	15.0	0.013	18.1
8 × 1.5	2	0.7	0.20	1.5	14.0	17.0	0.010	12.1
8 × 2.5	2	0.8	0.20	1.5	16.0	19.0	0.009	7.41
8 × 4	2	0.8	0.20	1.5	18.0	21.5	0.0077	4.61
8 × 6	2	0.8	0.20	1.5	19.5	24.0	0.0065	3.08
8 × 10	2	1.0	0.20	1.7	24.0	29.0	0.0065	1.83
10 × 0.75	2	0.6	0.20	1.5	13.0	16.0	0.014	24.5
10 × 1.0	2	0.6	0.20	1.5	13.5	16.5	0.013	18.1
10 × 1.5	2	0.7	0.20	1.5	15.5	18.5	0.010	12.1
10 × 2.5	2	0.8	0.20	1.5	17.5	21.5	0.009	7.41
10 × 4	2	0.8	0.20	1.7	20.0	24.0	0.0077	4.61
10 × 6	2	0.8	0.20	1.7	22.5	27.0	0.0065	3.08
10 × 10	2	1.0	0.20	1.7	27.0	32.5	0.0065	1.83
12 × 0.75	2	0.6	0.20	1.5	13.0	16.0	0.014	24.5
12 × 1.0	2	0.6	0.20	1.5	14.0	17.0	0.013	18.1
12 × 1.5	2	0.7	0.20	1.5	16.0	19.0	0.010	12.1
12 × 2.5	2	0.8	0.20	1.5	18.5	22.5	0.009	7.41
12 × 4	2	0.8	0.20	1.7	20.5	25.0	0.0077	4.61
12 × 6	2	0.8	0.20	1.7	23.5	27.5	0.0065	3.08
12 × 10	2	0.8	0.25	1.7	23.5	27.5	0.0065	3.08
14 × 0.75	2	0.6	0.20	1.5	14.0	17.0	0.014	24.5
14 × 1.0	2	0.6	0.20	1.5	14.5	17.5	0.013	18.1
14 × 1.5	2	0.7	0.20	1.5	16.5	20.0	0.010	12.1
14 × 2.5	2	0.8	0.20	1.7	19.5	23.5	0.009	7.41
14 × 4	2	0.8	0.20	1.7	21.5	26.0	0.0077	4.61
14 × 6	2	0.8	0.25	1.7	24.0	29.0	0.0065	3.08
16 × 0.75	2	0.6	0.20	1.5	14.5	17.5	0.014	24.5
16 × 1.0	2	0.6	0.20	1.5	15.0	18.5	0.013	18.1
16 × 1.5	2	0.7	0.20	1.5	17.5	21.0	0.010	12.1
16 × 2.5	2	0.8	0.20	1.7	20.5	24.5	0.009	7.41
19 × 0.75	2	0.6	0.20	1.5	15.0	18.0	0.014	24.5
19 × 1.0	2	0.6	0.20	1.5	16.0	19.0	0.013	18.1
19 × 1.5	2	0.7	0.20	1.7	18.5	22.5	0.010	12.1
19 × 2.5	2	0.8	0.20	1.7	21.5	25.5	0.009	7.41



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聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

芯数 × 标称截面 Cores × Nor. cross-sectional areamm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor.thickness of insulation mm	屏蔽单线 标称直径 Nor.dia.of screen wire mm	护套标称厚度 Nor.thickness of sheath mm	平均外径Pitch Diameter mm		最小绝缘电阻Min Resistance of insulation at 70°C M.Ω.km	最大直流电阻 Max.D.C Resistance at 20°C Ω/km
					下限 min	上限 max		
24 × 0.75	2	0.6	0.20	1.5	17.0	20.5	0.014	24.5
24 × 1.0	2	0.6	0.20	1.7	18.5	22.0	0.013	18.1
24 × 1.5	2	0.7	0.20	1.7	21.5	25.5	0.010	12.1
24 × 2.5	2	0.8	0.25	1.7	25.5	29.5	0.009	7.41
27 × 0.75	2	0.6	0.20	1.5	17.5	21.0	0.014	24.5
27 × 1.0	2	0.6	0.20	1.7	19.0	22.5	0.013	18.1
27 × 1.5	2	0.7	0.20	1.7	21.5	26.0	0.010	12.1
27 × 2.5	2	0.8	0.25	1.7	25.5	30.5	0.009	7.41
30 × 0.75	2	0.6	0.20	1.7	18.5	22.0	0.014	24.5
30 × 1.0	2	0.6	0.20	1.7	19.5	23.5	0.013	18.1
30 × 1.5	2	0.7	0.25	1.7	22.5	27.0	0.010	12.1
30 × 2.5	2	0.8	0.25	1.7	26.5	31.5	0.009	7.41
37 × 0.75	2	0.6	0.20	1.7	19.5	23.5	0.014	24.5
37 × 1.0	2	0.6	0.20	1.7	21.0	25.0	0.013	18.1
37 × 1.5	2	0.7	0.25	1.7	24.5	29.0	0.010	12.1
37 × 2.5	2	0.8	0.25	2.0	29.0	34.0	0.009	7.41
44 × 0.75	2	0.6	0.25	1.7	22.0	26.5	0.014	24.5
44 × 1.0	2	0.6	0.25	1.7	23.5	28.0	0.013	18.1
44 × 1.5	2	0.7	0.25	1.7	27.0	32.0	0.010	12.1
44 × 2.5	2	0.8	0.30	2.0	32.5	38.5	0.009	7.41
48 × 0.75	2	0.6	0.25	1.7	22.5	26.5	0.014	24.5
48 × 1.0	2	0.6	0.25	1.7	23.5	28.0	0.013	18.1
48 × 1.5	2	0.7	0.25	1.7	27.5	32.5	0.010	12.1
48 × 2.5	2	0.8	0.30	2.0	33.0	39.0	0.009	7.41
52 × 0.75	2	0.6	0.25	1.7	23.0	27.5	0.014	24.5
52 × 1.0	2	0.6	0.25	1.7	24.5	29.0	0.013	18.1
52 × 1.5	2	0.7	0.25	2.0	29.0	34.0	0.010	12.1
52 × 2.5	2	0.8	0.30	2.2	34.5	40.5	0.009	7.41
61 × 0.75	2	0.6	0.25	1.7	24.5	29.0	0.014	24.5
61 × 1.0	2	0.6	0.25	1.7	25.5	30.5	0.013	18.1
61 × 1.5	2	0.7	0.25	2.0	30.5	36.0	0.010	12.1
61 × 2.5	2	0.8	0.30	2.2	36.5	42.5	0.009	7.41



聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

**KVVP<sub>2</sub>型、ZR-KVVP<sub>2</sub>型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套铜带屏蔽控制电缆**  
Type KVVP<sub>2</sub>, ZR-KVVP<sub>2</sub> Copper conductor PVC insulated and sheathed control cable with copper wire braid for rated voltages up to 450/750V

芯数×标称截面 Cores×Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor.thickness of insulation mm	铜带厚度 Nor.thickness of sheath mm	护套标称厚度 Nor.thickness of sheath mm	平均外径Pitch Diameter mm		最小绝缘电阻Min Resistance of insulation at 70°C MΩ.km	最大直流电阻 Max D.C Resistance at 20°C Ω/km
					下限 min	上限 max		
4×0.75	1	0.6	0.05-0.15	1.2	8.0	10.0	0.012	24.5
4×1.0	1	0.6	0.05-0.15	1.2	8.4	10.5	0.011	18.1
4×1.5	1	0.7	0.05-0.15	1.2	9.4	11.5	0.011	12.1
4×2.5	1	0.8	0.05-0.15	1.5	11.0	14.0	0.010	7.41
4×4	1	0.8	0.05-0.15	1.5	12.5	15.0	0.0085	4.61
4×6	1	0.8	0.05-0.15	1.5	13.5	16.0	0.0070	3.08
4×10	2	1.0	0.05-0.15	1.7	17.5	21.5	0.0055	1.83
5×0.75	1	0.6	0.05-0.15	1.2	8.6	11.0	0.012	24.5
5×1.0	1	0.6	0.05-0.15	1.2	9.0	11.0	0.011	18.1
5×1.5	1	0.7	0.05-0.15	1.5	10.0	12.5	0.011	12.1
5×2.5	1	0.8	0.05-0.15	1.5	12.0	15.0	0.010	7.41
5×4	1	0.8	0.05-0.15	1.5	13.5	16.0	0.0085	4.61
5×6	1	0.8	0.05-0.15	1.5	14.5	17.5	0.0070	3.08
5×10	2	1.0	0.05-0.15	1.7	19.0	23.5	0.0055	1.83
7×0.75	1	0.6	0.05-0.15	1.2	9.2	11.5	0.012	24.5
7×1.0	1	0.6	0.05-0.15	1.2	9.6	12.0	0.011	18.1
7×1.5	1	0.7	0.05-0.15	1.5	11.5	14.0	0.011	12.1
7×2.5	1	0.8	0.05-0.15	1.5	13.0	16.0	0.010	7.41
7×4	1	0.8	0.05-0.15	1.5	14.5	17.5	0.0085	4.61
7×6	1	0.8	0.05-0.15	1.5	16.0	19.0	0.0070	3.08
7×10	2	1.0	0.05-0.15	1.7	20.5	25.0	0.0055	1.83
8×0.75	1	0.6	0.05-0.15	1.5	10.0	12.5	0.012	24.5
8×1.0	1	0.6	0.05-0.15	1.5	11.0	13.5	0.011	18.1
8×1.5	1	0.7	0.05-0.15	1.5	12.5	15.5	0.011	12.1
8×2.5	1	0.8	0.05-0.15	1.5	14.5	17.5	0.010	7.41
8×4	1	0.8	0.05-0.15	1.7	16.0	19.0	0.0085	4.61
8×6	1	0.8	0.05-0.15	1.7	18.0	21.0	0.0070	3.08
8×10	2	1.0	0.05-0.15	1.7	23.0	28.0	0.0055	1.83
10×0.75	1	0.6	0.05-0.15	1.5	11.5	14.5	0.012	24.5
10×1.0	1	0.6	0.05-0.15	1.5	12.5	15.0	0.011	18.1
10×1.5	1	0.7	0.05-0.15	1.5	14.0	17.0	0.011	12.1
10×2.5	1	0.8	0.05-0.15	1.7	16.5	19.5	0.010	7.41
10×4	1	0.8	0.05-0.15	1.7	18.5	21.5	0.0085	4.61
10×6	1	0.8	0.05-0.15	1.7	20.5	23.5	0.0070	3.08
10×10	2	1.0	0.05-0.15	1.7	26.0	31.5	0.0055	1.83
12×0.75	1	0.6	0.05-0.15	1.5	12.0	14.5	0.012	24.5
12×1.0	1	0.6	0.05-0.15	1.5	12.5	15.5	0.011	18.1
12×1.5	1	0.7	0.05-0.15	1.5	14.5	17.5	0.011	12.1
12×2.5	1	0.8	0.05-0.15	1.7	17.0	20.5	0.010	7.41
12×4	1	0.8	0.05-0.15	1.7	19.0	22.5	0.0085	4.61
12×6	1	0.8	0.05-0.15	1.7	21.0	24.5	0.0070	3.08
14×0.75	1	0.6	0.05-0.15	1.5	12.5	15.0	0.012	24.5
14×1.0	1	0.6	0.05-0.15	1.5	13.5	16.0	0.011	18.1
14×1.5	1	0.7	0.05-0.15	1.5	15.0	18.0	0.011	12.1
14×2.5	1	0.8	0.05-0.15	1.7	18.0	21.0	0.010	7.41
14×4	1	0.8	0.05-0.15	1.7	20.0	23.5	0.0085	4.61
14×6	1	0.8	0.05-0.15	1.7	22.0	25.5	0.0070	3.08
16×0.75	1	0.6	0.05-0.15	1.5	13.0	16.0	0.012	24.5
16×1.0	1	0.6	0.05-0.15	1.5	14.0	16.5	0.011	18.1
16×1.5	1	0.7	0.05-0.15	1.5	16.0	19.0	0.011	12.1
16×2.5	1	0.8	0.05-0.15	1.7	19.0	22.0	0.010	7.41
19×0.75	1	0.6	0.05-0.15	1.5	14.0	16.5	0.012	24.5
19×1.0	1	0.6	0.05-0.15	1.5	14.5	17.5	0.011	18.1
19×1.5	1	0.7	0.05-0.15	1.7	16.5	20.0	0.011	12.1
19×2.5	1	0.8	0.05-0.15	1.7	20.0	23.0	0.010	7.41
24×0.75	1	0.6	0.05-0.15	1.5	16.0	19.0	0.012	24.5
24×1.0	1	0.6	0.05-0.15	1.7	17.0	20.5	0.011	18.1
24×1.5	1	0.7	0.05-0.15	1.7	20.0	23.0	0.011	12.1
24×2.5	1	0.8	0.05-0.15	1.7	23.0	26.5	0.010	7.41
27×0.75	1	0.6	0.05-0.15	1.7	18.0	19.0	0.012	24.5
27×1.0	1	0.6	0.05-0.15	1.7	17.5	20.5	0.011	18.1
27×1.5	1	0.7	0.05-0.15	1.7	20.0	23.5	0.011	12.1
27×2.5	1	0.8	0.05-0.15	1.7	23.5	27.0	0.010	7.41
30×0.75	1	0.6	0.05-0.15	1.7	17.0	20.0	0.012	24.5
30×1.0	1	0.6	0.05-0.15	1.7	18.0	21.5	0.011	18.1
30×1.5	1	0.7	0.05-0.15	1.7	21.0	24.0	0.011	12.1
30×2.5	1	0.8	0.05-0.15	1.7	24.5	28.0	0.010	7.41
37×0.75	1	0.6	0.05-0.15	1.7	18.5	21.5	0.012	24.5
37×1.0	1	0.6	0.05-0.15	1.7	19.5	22.5	0.011	18.1
37×1.5	1	0.7	0.05-0.15	2.0	22.5	26.0	0.011	12.1
37×2.5	1	0.8	0.05-0.15	2.0	26.5	30.0	0.010	7.41
44×0.75	1	0.6	0.05-0.15	1.7	20.5	24.0	0.012	24.5
44×1.0	1	0.6	0.05-0.15	1.7	21.5	25.0	0.011	18.1
44×1.5	1	0.7	0.05-0.15	1.7	25.0	29.0	0.011	12.1
44×2.5	1	0.8	0.05-0.15	2.0	30.0	34.5	0.010	7.41
48×0.75	1	0.6	0.05-0.15	1.7	21.0	24.0	0.012	24.5
48×1.0	1	0.6	0.05-0.15	1.7	22.0	25.5	0.011	18.1
48×1.5	1	0.7	0.05-0.15	1.7	25.5	29.5	0.011	12.1
48×2.5	1	0.8	0.05-0.15	2.0	30.5	35.0	0.010	7.41
52×0.75	1	0.6	0.05-0.15	1.7	21.5	24.5	0.012	24.5
52×1.0	1	0.6	0.05-0.15	1.7	22.5	26.0	0.011	18.1
52×1.5	1	0.7	0.05-0.15	2.0	26.0	30.0	0.011	12.1
52×2.5	1	0.8	0.05-0.15	2.2	31.5	36.0	0.010	7.41
61×0.75	1	0.6	0.05-0.15	1.7	22.5	26.0	0.012	24.5
61×1.0	1	0.6	0.05-0.15	1.7	24.0	27.5	0.011	18.1
61×1.5	1	0.7	0.05-0.15	2.0	28.5	32.5	0.011	12.1
61×2.5	1	0.8	0.05-0.15	2.2	34.0	38.5	0.010	7.41

聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

KVV<sub>22</sub> 型、ZR-KVV<sub>22</sub> 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套钢带铠装控制电缆  
Type KVV<sub>22</sub>, ZR-KVV<sub>22</sub> Copper conductor PVC insulated and sheathed control cable with for rated voltages up to 450/750V

芯数 × 标称截面 Cores × Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor. thickness of insulation mm	钢带层数 × 厚度 Steel tape layers S Thickness mm	护套标称厚度 Nor. thickness of sheath mm	平均外径 Pitch Diameter mm		最小绝缘电阻 Min Resistance of insulation at 70°C M.Ω.km	最大直流电阻 Max D.C Resistance at 20°C Ω/km
					下限 min	上限 max		
4 × 2.5	1	0.8	2 × 0.2(0.3)	1.5	130	17.0	0.010	7.41
4 × 4	1	0.8	2 × 0.2(0.3)	1.5	140	18.5	0.0086	4.61
4 × 6	1	0.8	2 × 0.2(0.3)	1.5	15.5	19.0	0.0070	3.08
4 × 10	1	1.0	2 × 0.2(0.3)	1.7	19.0	25.0	0.0066	1.83
5 × 2.5	2	0.8	2 × 0.2(0.3)	1.5	140	18.0	0.010	7.41
5 × 4	1	0.8	2 × 0.2(0.3)	1.5	150	19.5	0.0086	4.61
5 × 6	1	0.8	2 × 0.2(0.3)	1.7	17.0	21.5	0.0070	3.08
5 × 10	1	1.0	2 × 0.2(0.3)	1.7	20.5	26.5	0.0066	1.83
7 × 0.75	2	0.6	2 × 0.2(0.3)	1.5	11.5	15.5	0.012	24.5
7 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	120	16.0	0.011	18.1
7 × 1.5	1	0.7	2 × 0.2(0.3)	1.5	13.5	17.5	0.011	12.1
7 × 2.5	1	0.8	2 × 0.2(0.3)	1.5	15.0	19.0	0.010	7.41
7 × 4	1	0.8	2 × 0.2(0.3)	1.5	16.5	20.5	0.0086	4.61
7 × 6	1	0.8	2 × 0.2(0.3)	1.7	18.0	22.5	0.0070	3.08
7 × 10	2	1.0	2 × 0.2(0.3)	1.7	22.5	28.5	0.0066	1.83
8 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	12.5	16.5	0.0012	24.5
8 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	130	17.0	0.011	18.1
8 × 1.5	1	0.7	2 × 0.2(0.3)	1.5	14.5	18.5	0.011	12.1
8 × 2.5	1	0.8	2 × 0.2(0.3)	1.5	16.5	21.0	0.010	7.41
8 × 4	1	0.8	2 × 0.2(0.3)	1.5	18.5	23.0	0.0086	4.61
8 × 6	1	0.8	2 × 0.2(0.3)	1.7	20.0	24.5	0.0070	3.08
8 × 10	2	1.0	2 × 0.2(0.3)	1.7	25.0	31.5	0.0066	1.83
10 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	13.5	18.0	0.0012	24.5
10 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	145	18.5	0.011	18.1
10 × 1.5	1	0.7	2 × 0.2(0.3)	1.5	16.0	20.5	0.011	12.1
10 × 2.5	1	0.8	2 × 0.2(0.3)	1.5	18.5	23.0	0.010	7.41
10 × 4	1	0.8	2 × 0.2(0.3)	1.7	20.5	25.0	0.0086	4.61
10 × 6	1	0.8	2 × 0.2(0.3)	1.7	22.5	27.0	0.0070	3.08
10 × 10	2	1.0	2 × 0.2(0.3)	2.0	28.5	36.5	0.0066	1.83
12 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	14.0	18.0	0.0012	24.5
12 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	14.5	19.0	0.011	18.1
12 × 1.5	1	0.7	2 × 0.2(0.3)	1.5	16.5	20.5	0.011	12.1
12 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	19.0	23.5	0.010	7.41
12 × 4	1	0.8	2 × 0.2(0.3)	1.7	21.0	25.5	0.0086	4.61
12 × 6	1	0.8	2 × 0.2(0.3)	1.7	23.0	28.0	0.0070	3.08
12 × 10	2	1.0	2 × 0.2(0.3)	2.0	29.0	37.0	0.0066	1.83
14 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	14.5	18.5	0.012	24.5
14 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	15.0	19.5	0.011	18.1
14 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	17.5	22.0	0.011	12.1
14 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	20.0	24.5	0.010	7.41
14 × 4	1	0.8	2 × 0.2(0.3)	1.7	22.0	26.5	0.0086	4.61
14 × 6	1	0.8	2 × 0.2(0.3)	1.7	24.0	29.0	0.0070	3.08
16 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	15.0	19.5	0.012	24.5
16 × 1.0	1	0.6	2 × 0.2(0.3)	1.5	160	20.0	0.011	18.1
16 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	18.0	22.5	0.011	12.1
16 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	21.0	25.5	0.010	7.41
19 × 0.75	1	0.6	2 × 0.2(0.3)	1.5	15.5	20.0	0.012	24.5
19 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	170	21.5	0.011	18.1
19 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	19.0	23.5	0.011	12.1
19 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	22.0	26.5	0.010	7.41
24 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	18.0	22.5	0.012	24.5
24 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	190	23.5	0.011	18.1
24 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	21.5	26.5	0.011	12.1
24 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	25.0	30.0	0.010	7.41
27 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	18.5	23.0	0.012	24.5
27 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	19.5	24.0	0.011	18.1
27 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	22.0	27.0	0.011	12.1
27 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	25.5	30.5	0.010	7.41
30 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	20.5	23.5	0.012	24.5
30 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	21.5	24.5	0.011	18.1
30 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	24.5	27.5	0.011	12.1
30 × 2.5	1	0.8	2 × 0.2(0.3)	1.7	30.0	31.5	0.010	7.41
37 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	22.5	25.0	0.012	24.5
37 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	23.5	26.0	0.011	18.1
37 × 1.5	1	0.7	2 × 0.2(0.3)	1.7	27.5	29.5	0.011	12.1
37 × 2.5	1	0.8	2 × 0.5	2.2	33.5	36.0	0.010	7.41
44 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	22.5	27.0	0.012	24.5
44 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	24.0	28.5	0.011	18.1
44 × 1.5	1	0.7	2 × 0.2(0.3)	2.0	29.0	33.0	0.011	12.1
44 × 2.5	1	0.8	2 × 0.5	2.2	34.0	39.0	0.010	7.41
48 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	22.5	27.5	0.012	24.5
48 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	24.0	29.0	0.011	18.1
48 × 1.5	1	0.7	2 × 0.5	2.0	29.0	34.0	0.011	12.1
48 × 2.5	1	0.8	2 × 0.5	2.2	34.0	39.5	0.010	7.41
52 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	23.0	28.0	0.012	24.5
52 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	24.5	29.5	0.011	18.1
52 × 1.5	1	0.7	2 × 0.2(0.3)	2.0	30.0	35.0	0.011	12.1
52 × 2.5	1	0.8	2 × 0.2(0.3)	2.2	36.0	40.5	0.010	7.41
61 × 0.75	1	0.6	2 × 0.2(0.3)	1.7	24.5	29.5	0.012	24.5
61 × 1.0	1	0.6	2 × 0.2(0.3)	1.7	260	31.0	0.011	18.1
61 × 1.5	1	0.7	2 × 0.5	2.0	31.5	36.5	0.011	12.1
61 × 2.5	1	0.8	2 × 0.5	2.2	37.0	42.5	0.010	7.41



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聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

KVV<sub>32</sub> 型、ZR-KVV<sub>32</sub> 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套钢丝铠装控制电缆  
Type KVV<sub>32</sub>, ZR-KVV<sub>32</sub> Copper conductor PVC insulated and sheathed control cable with fine steel armour for rated voltages up to 450/750V

芯数 × 标称截面 Cores × Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor. thickness of insulation mm	细钢丝直径 Dia. of fine steel wire mm	护套标称厚度 Nor. thickness of sheath mm	平均外径 Pitch Diameter mm		最小绝缘电阻 Min Resistance of insulation at 70°C M.Ω.km	最大直流电阻 Max D.C Resistance at 20°C Ω/km
					下限 min	上限 max		
4 × 4	1	0.8	0.8-1.6	1.5	15.0	20.5	0.0085	4.61
4 × 6	1	0.8	0.8-1.6	1.5	16.0	21.5	0.0070	3.08
4 × 10	2	1.0	1.6-2.0	1.7	21.5	28.0	0.0065	1.83
5 × 4	1	0.8	0.8-1.6	1.5	16.0	21.5	0.0085	4.61
5 × 6	1	0.8	0.8-1.6	1.7	17.5	23.5	0.0070	3.08
5 × 10	2	1.0	1.6-2.0	1.7	23.0	29.5	0.0065	1.83
7 × 1.5	1	0.7	0.8-1.6	1.5	14.0	19.5	0.011	12.1
7 × 2.5	1	0.8	0.8-1.6	1.5	16.0	21.5	0.010	7.41
7 × 4	1	0.8	0.8-1.6	1.7	17.5	23.5	0.0085	4.61
7 × 6	1	0.8	0.8-1.6	1.7	19.0	24.5	0.0070	3.08
7 × 10	2	1.0	1.6-2.0	1.7	24.5	31.5	0.0065	1.83
8 × 1.5	1	0.7	0.8-1.6	1.5	15.5	21.0	0.011	12.1
8 × 2.5	1	0.8	0.8-1.6	1.7	17.5	23.5	0.010	7.41
8 × 4	1	0.8	1.6-2.0	1.7	20.5	26.0	0.0085	4.61
8 × 6	1	0.8	1.6-2.0	1.7	22.5	27.5	0.0070	3.08
8 × 10	2	1.0	1.6-2.0	1.7	27.5	34.5	0.0065	1.83
10 × 1.5	1	0.7	0.8-1.6	1.7	17.0	23.0	0.011	12.1
10 × 2.5	1	0.8	1.6-2.0	1.7	21.0	26.0	0.010	7.41
10 × 4	1	0.8	1.6-2.0	1.7	22.5	28.0	0.0085	4.61
10 × 6	1	0.8	1.6-2.0	1.7	24.5	30.0	0.0070	3.08
10 × 10	2	1.0	1.6-2.0	2.0	31.0	38.5	0.0065	1.83
12 × 1.5	1	0.7	0.8-1.6	1.7	17.5	23.5	0.011	12.1
12 × 2.5	1	0.8	1.6-2.0	1.7	21.5	26.5	0.010	7.41
12 × 4	1	0.8	1.6-2.0	1.7	23.5	28.5	0.0085	4.61
12 × 6	1	0.8	1.6-2.0	1.7	25.5	31.0	0.0070	3.08
14 × 1.5	1	0.7	0.8-1.6	1.7	18.0	24.0	0.011	1.83
14 × 2.5	1	0.8	1.6-2.0	1.7	22.5	27.5	0.010	12.1
14 × 4	1	0.8	1.6-2.0	1.7	24.0	29.5	0.0085	7.41
14 × 6	1	0.8	1.6-2.0	1.7	26.5	32.0	0.0070	4.61
16 × 1.5	1	0.7	1.6-2.0	1.7	20.5	25.5	0.011	12.1
16 × 2.5	1	0.8	1.6-2.0	1.7	23.0	28.5	0.010	7.41
19 × 0.75	1	0.6	0.8-1.6	1.5	16.5	22.0	0.012	24.5
19 × 1.0	1	0.6	0.8-1.6	1.7	17.5	23.5	0.011	18.1
19 × 1.5	1	0.7	1.6-2.0	1.7	21.5	26.5	0.011	12.1
19 × 2.5	1	0.8	1.6-2.0	1.7	24.0	29.5	0.010	7.41
24 × 0.75	1	0.6	1.6-2.0	1.7	20.5	25.5	0.012	24.5
24 × 1.0	1	0.6	1.6-2.0	1.7	21.5	26.5	0.011	18.1
24 × 1.5	1	0.7	1.6-2.0	1.7	24.0	29.5	0.011	12.1
24 × 2.5	1	0.8	1.6-2.0	2.0	28.0	33.5	0.010	7.41
27 × 0.75	1	0.6	1.6-2.0	1.7	21.0	26.0	0.012	24.5
27 × 1.0	1	0.6	1.6-2.0	1.7	22.0	27.0	0.011	18.1
27 × 1.5	1	0.7	1.6-2.0	1.7	24.5	30.0	0.011	12.1
27 × 2.5	1	0.8	1.6-2.0	2.0	28.5	34.0	0.010	7.41
30 × 0.75	1	0.6	1.6-2.0	1.7	21.5	26.5	0.012	24.5
30 × 1.0	1	0.6	1.6-2.0	1.7	22.5	27.5	0.011	18.1
30 × 1.5	1	0.7	1.6-2.0	1.7	25.0	30.5	0.011	12.1
30 × 2.5	1	0.8	1.6-2.0	2.0	29.5	34.5	0.010	7.41
37 × 0.75	1	0.6	1.6-2.0	1.7	22.5	28.0	0.012	24.5
37 × 1.0	1	0.6	1.6-2.0	1.7	23.5	29.0	0.011	18.1
37 × 1.5	1	0.7	1.6-2.0	2.0	27.5	33.0	0.011	12.1
37 × 2.5	1	0.8	2.0-2.5	2.2	32.5	38.5	0.010	7.41
44 × 0.75	1	0.6	1.6-2.0	1.7	24.5	30.0	0.012	24.5
44 × 1.0	1	0.6	1.6-2.0	1.7	26.0	31.5	0.011	18.1
44 × 1.5	1	0.7	1.6-2.0	2.0	30.0	36.0	0.011	12.1
44 × 2.5	1	0.8	2.0-2.5	2.2	35.5	42.0	0.010	7.41
48 × 0.75	1	0.6	1.6-2.0	1.7	25.0	30.5	0.012	24.5
48 × 1.0	1	0.6	1.6-2.0	2.0	27.0	32.5	0.011	18.1
48 × 1.5	1	0.7	1.6-2.0	2.0	31.0	37.5	0.011	12.1
48 × 2.5	1	0.8	2.0-2.5	2.2	36.0	42.5	0.010	7.41
52 × 0.75	1	0.6	1.6-2.0	1.7	25.5	31.0	0.012	24.5
52 × 1.0	1	0.6	1.6-2.0	2.0	27.5	33.0	0.011	18.1
52 × 1.5	1	0.7	2.0-2.5	2.0	32.0	38.0	0.011	12.1
52 × 2.5	1	0.8	2.0-2.5	2.2	37.0	43.5	0.010	7.41
61 × 0.75	1	0.6	1.6-2.0	2.0	27.5	33.0	0.012	24.5
61 × 1.0	1	0.6	1.6-2.0	2.0	30.0	34.5	0.011	18.1
61 × 1.5	1	0.7	1.6-2.0	2.2	34.0	40.0	0.011	12.1
61 × 2.5	1	0.8	2.0-2.5	2.5	39.5	46.5	0.010	7.41



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中国驰名商标 | 中国 500 强企业

聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

KVVR 型、ZR-KVVR 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套控制软电缆

Type KVVR, ZR-KVVR Copper conductor PVC insulated and sheathed flexible control cable for rated voltages up to 450/750V

芯数 × 标称截面 Cores × Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor. thickness of insulation mm	护套标称厚度 Nor. thickness of sheath mm	平均外径 Pitch Diameter mm		最小绝缘电阻 Min Resistance of insulation at 70°C MΩ.km	最大直流电阻 Max.D.C Resistance at 20°C Ω/km
				下限 min	上限 max		
4 × 0.5 4 × 0.75 4 × 1.0 4 × 1.5 4 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.2 1.2	7.2	9.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				7.6	9.4		
				8.0	10.0		
				9.0	11.3		
5 × 0.5 5 × 0.75 5 × 1.0 5 × 1.5 5 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	7.8	9.6	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				8.4	10.5		
				8.8	12.0		
				9.8	14.3		
7 × 0.5 7 × 0.75 7 × 1.0 7 × 1.5 7 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	8.4	10.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				9.0	11.0		
				9.6	11.5		
				10.5	16.0		
8 × 0.5 8 × 0.75 8 × 1.0 8 × 1.5 8 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	9.4	11.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				10.0	12.5		
				10.5	13.0		
				12.5	17.5		
10 × 0.5 10 × 0.75 10 × 1.0 10 × 1.5 10 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	10.5	12.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				11.0	13.5		
				12.5	17.0		
				14.0	19.5		
12 × 0.5 12 × 0.75 12 × 1.0 12 × 1.5 12 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	10.5	13.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				12.0	14.5		
				12.5	15.5		
				17.5	20.5		
14 × 0.5 14 × 0.75 14 × 1.0 14 × 1.5 14 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	11.0	13.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				11.5	16.0		
				13.5	18.0		
				18.0	21.0		
16 × 0.5 16 × 0.75 16 × 1.0 16 × 1.5 16 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	12.5	15.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				13.5	17.0		
				16.0	19.0		
				19.5	23.0		
19 × 0.5 19 × 0.75 19 × 1.0 19 × 1.5 19 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	13.0	15.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				14.0	16.5		
				15.0	17.5		
				20.5	24.0		
24 × 0.5 24 × 0.75 24 × 1.0 24 × 1.5 24 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	15.0	18.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				16.0	19.0		
				17.0	20.0		
				20.0	23.5		
27 × 0.5 27 × 0.75 27 × 1.0 27 × 1.5 27 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	15.0	18.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				16.5	19.5		
				17.5	20.5		
				20.5	28.5		
30 × 0.5 30 × 0.75 30 × 1.0 30 × 1.5 30 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	16.0	18.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				17.0	20.0		
				18.5	21.5		
				21.0	25.0		
37 × 0.5 37 × 0.75 37 × 1.0 37 × 1.5 37 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	17.0	20.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				19.0	21.5		
				20.5	23.5		
				27.5	31.5		
44 × 0.5 44 × 0.75 44 × 1.0 44 × 1.5 44 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	19.5	22.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				21.0	24.5		
				22.5	26.0		
				25.5	36.0		
48 × 0.5 48 × 0.75 48 × 1.0 48 × 1.5 48 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	20.0	23.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				21.5	25.0		
				23.0	26.5		
				26.0	36.5		
52 × 0.5 52 × 0.75 52 × 1.0 52 × 1.5 52 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	20.5	23.5	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				22.0	25.5		
				23.5	27.0		
				33.0	37.5		
61 × 0.5 61 × 0.75 61 × 1.0 61 × 1.5 61 × 2.5	5	0.6 0.6 0.6 0.7 0.8	1.2 1.2 1.2 1.3 1.5	21.5	25.0	0.013 0.011 0.010 0.010 0.009	39.0 26.0 19.5 13.3 7.98
				23.5	27.0		
				25.0	28.5		
				29.0	40.5		





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中国驰名商标 | 中国 500 强企业

聚氯乙烯绝缘聚氯乙烯护套控制电缆  
Copper conductor PVC insulated and sheathed control cable

KVVVP、P1、P3 型, ZR-KVVVP、P1、P3 型 450/750V 铜芯聚氯乙烯绝缘聚氯乙烯护套编织或缠绕或塑铝复合带屏蔽控制软电缆 Type KVVVP、P1、P3,ZR-KVVVP、P1、P3 Copper conductor PVC insulated and sheathed flexible control cable with shield for rated voltages up to 450/750V

芯数×标称截面 Cores×Nor. cross-sectional area mm <sup>2</sup>	导体种类 Kind of conductor	绝缘标称厚度 Nor.thickness of insulation mm	屏蔽单线标称直 径Nor.dia.of screen wire mm	护套标称厚度 Nor.thickness of sheath mm	平均外径Pitch Diameter mm		最小绝缘电阻Min Resistance of insulation at 70℃ M.Ω.km	最大直流电阻 Max.D.C Resistance at 20℃ Ω/km
					下限 min	上限 max		
4×0.5	5	0.6	0.15	1.2	8.6	10.5	0.013	39.0
4×0.75	5	0.6	0.15	1.2	9.0	11.0	0.011	26.0
4×1.0	5	0.6	0.15	1.2	9.4	11.5	0.010	19.5
4×1.5	5	0.7	0.15	1.2	10.0	12.5	0.010	13.3
4×2.5	5	0.8	0.20	1.5	12.5	15.0	0.009	7.98
5×0.5	5	0.6	0.15	1.2	9.0	11.0	0.013	39.0
5×0.75	5	0.6	0.15	1.2	9.6	11.5	0.011	26.0
5×1.0	5	0.6	0.15	1.2	10.0	12.0	0.010	19.5
5×1.5	5	0.7	0.15	1.2	11.0	13.5	0.010	13.3
5×2.5	5	0.8	0.20	1.5	13.5	16.0	0.009	7.98
7×0.5	5	0.6	0.15	1.2	9.8	11.5	0.013	39.0
7×0.75	5	0.6	0.15	1.2	10.0	12.5	0.011	26.0
7×1.0	5	0.6	0.15	1.2	10.5	13.0	0.010	19.5
7×1.5	5	0.7	0.15	1.5	12.5	15.0	0.010	13.3
7×2.5	5	0.8	0.20	1.5	15.0	17.5	0.009	7.98
8×0.5	5	0.6	0.15	1.2	10.5	13.0	0.013	39.0
8×0.75	5	0.6	0.15	1.2	11.0	13.5	0.011	26.0
8×1.0	5	0.6	0.15	1.5	12.5	15.0	0.010	19.5
8×1.5	5	0.7	0.20	1.5	14.0	17.0	0.010	13.3
8×2.5	5	0.8	0.20	1.5	16.5	19.0	0.009	7.98
10×0.5	5	0.6	0.15	1.5	12.0	14.5	0.013	39.0
10×0.75	5	0.6	0.20	1.5	13.5	15.5	0.011	26.0
10×1.0	5	0.6	0.20	1.5	14.0	16.5	0.010	19.5
10×1.5	5	0.7	0.20	1.5	15.5	18.5	0.010	13.3
10×2.5	5	0.8	0.20	1.5	16.5	21.0	0.009	7.98
12×0.5	5	0.6	0.15	1.5	12.5	15.0	0.013	39.0
12×0.75	5	0.6	0.20	1.5	13.5	16.0	0.011	26.0
12×1.0	5	0.6	0.20	1.5	14.5	17.0	0.010	19.5
12×1.5	5	0.7	0.20	1.5	16.0	19.0	0.010	13.3
12×2.5	5	0.8	0.20	1.7	19.0	22.5	0.009	7.98
14×0.5	5	0.6	0.20	1.5	13.5	16.0	0.013	39.0
14×0.75	5	0.6	0.20	1.5	14.0	16.5	0.011	26.0
14×1.0	5	0.6	0.20	1.5	15.0	17.5	0.010	19.5
14×1.5	5	0.7	0.20	1.5	16.5	20.0	0.010	13.3
14×2.5	5	0.8	0.20	1.7	20.0	23.0	0.009	7.98
16×0.5	5	0.6	0.20	1.5	14.0	16.5	0.013	39.0
16×0.75	5	0.6	0.20	1.5	15.0	17.5	0.011	26.0
16×1.0	5	0.6	0.20	1.5	15.5	18.5	0.010	19.5
16×1.5	5	0.7	0.20	1.5	17.5	20.5	0.010	13.3
16×2.5	5	0.8	0.20	1.7	21.0	24.5	0.009	7.98
19×0.5	5	0.6	0.20	1.5	14.5	17.0	0.013	39.0
19×0.75	5	0.6	0.20	1.5	15.5	18.0	0.011	26.0
19×1.0	5	0.6	0.20	1.5	16.5	19.0	0.010	19.5
19×1.5	5	0.7	0.20	1.7	18.5	22.0	0.010	13.3
19×2.5	5	0.8	0.20	1.7	22.0	25.5	0.009	7.98
24×0.5	5	0.6	0.20	1.5	16.5	19.5	0.013	39.0
24×0.75	5	0.6	0.20	1.5	18.0	20.5	0.011	26.0
24×1.0	5	0.6	0.20	1.7	19.0	22.0	0.010	19.5
24×1.5	5	0.7	0.20	1.7	21.5	25.0	0.010	13.3
24×2.5	5	0.8	0.25	1.7	26.5	29.5	0.009	7.98
27×0.5	5	0.6	0.20	1.5	17.0	19.5	0.013	39.0
27×0.75	5	0.6	0.20	1.5	18.0	21.0	0.011	26.0
27×1.0	5	0.6	0.20	1.7	19.5	22.5	0.010	19.5
27×1.5	5	0.7	0.20	1.7	22.0	25.5	0.010	13.3
27×2.5	5	0.8	0.25	1.7	26.5	30.0	0.009	7.98
30×0.5	5	0.6	0.20	1.5	17.5	20.5	0.013	39.0
30×0.75	5	0.6	0.20	1.7	19.0	22.0	0.011	26.0
30×1.0	5	0.6	0.20	1.7	20.0	23.5	0.010	19.5
30×1.5	5	0.7	0.25	1.7	23.0	27.0	0.010	13.3
30×2.5	5	0.8	0.25	1.7	27.5	31.0	0.009	7.98
37×0.5	5	0.6	0.20	1.7	19.0	22.0	0.013	39.0
37×0.75	5	0.6	0.20	1.7	20.5	23.5	0.011	26.0
37×1.0	5	0.6	0.20	1.7	21.5	25.0	0.010	19.5
37×1.5	5	0.7	0.25	1.7	24.5	28.5	0.010	13.3
37×2.5	5	0.8	0.25	2.0	30.0	34.0	0.009	7.98
44×0.5	5	0.6	0.20	1.7	21.0	24.5	0.013	39.0
44×0.75	5	0.6	0.25	1.7	23.0	26.0	0.011	26.0
44×1.0	5	0.6	0.25	1.7	24.0	27.0	0.010	19.5
44×1.5	5	0.7	0.25	1.7	27.5	32.0	0.010	13.3

## 通用橡套软电缆

General purpose Rubber jacketed flexible cable

### 通用橡套软电缆

General purpose Rubberjacketed flexible cable

通用橡套软电缆适用于交流额定电压 $U_0/U$ 为450/750V及以下动力、家用电器及各种移动式野外电气设备的电力传输。

General purpose rubber jacketed flexible cables is made for the application in power transmission of power, domestic appliance and all movable type field electric equipment at A.C. rated voltage upto and including  $U_0/U/450/750V$ .

电缆线芯的长期最高工作温度 Max. permissible continuous operating temperature of conductor	YC(YCW)	+65℃	YZ(YZW)	+60℃
周围环境温度 Ambient temperature	+25℃			
敷设环境温度 Installation ambient temperature	YC YZ: $\geq -40^\circ\text{C}$ YCW YZW: $\geq -15^\circ\text{C}$			
电缆弯曲半径 Bending radius	4-5倍电缆外径 Times of outer diameter of the cable			

电缆的型号 Type of cable

型号 Type	名称 Description	使用范围 Application
YC	重型橡套软电缆 Heavy duty rubber jacketed flexible cable	连接各种移动电气设备，能承受较大的机械外力作用。 Connection of all movable-type electric equipment, withstand heavier mechanical external force.
YCW	野外用重型橡套软电缆 Field heavy duty rubber jacketed flexible cable	连接各种移动电气设备、能承受较大的机械外力作用，其具有耐气候和耐油性。 Connection of all movable-type electric equipment, withstand heavier mechanical external force with climate resistant and oil resistant properties.
YZ	中型橡套软电缆 Medium-size rubber-sheathed flexible cable	用于各种移动电器设备，能承受一般的机械外力作用。 Applying to various mobile appliance device and undertaking to general mechanical outside force
YZW	野外用中型橡套软电缆 Field medium-size rubber-sheathed flexible cable	用于各种移动电器设备，并具有耐气候和耐油性。 Applying to various mobile appliance device oil resistant properties.

### 电缆的使用特性 Applicable characteristic of cable

额定电压 $U_0/U$ 为450/750V、300/500V、300/300V。

Rated voltage  $U_0/U$  of 450/750V, 300/500V, 300/300V.

“W”型派生电缆具有耐气候和一定的耐油性能，适用于户外或接触油污的场合使用。

“W”Type cable with the performance of air resistance and oil resistivity is suitable for the use of outdoor occasions or the of contacting with the greasy dirt.

### 电缆生产范围 Cable making range

型号 Type	芯数 No. of cores	导线芯标称截面 Normal cross sectional area of conductor mm <sup>2</sup>
YC YCW	1	1.5-400
	2	1.5-95
	3, 4, 3+1	1.5-150
	5	1.5-25
YZ YZW	1	0.75-6
	2	
	3, 4, 3+1	
	5, 6	

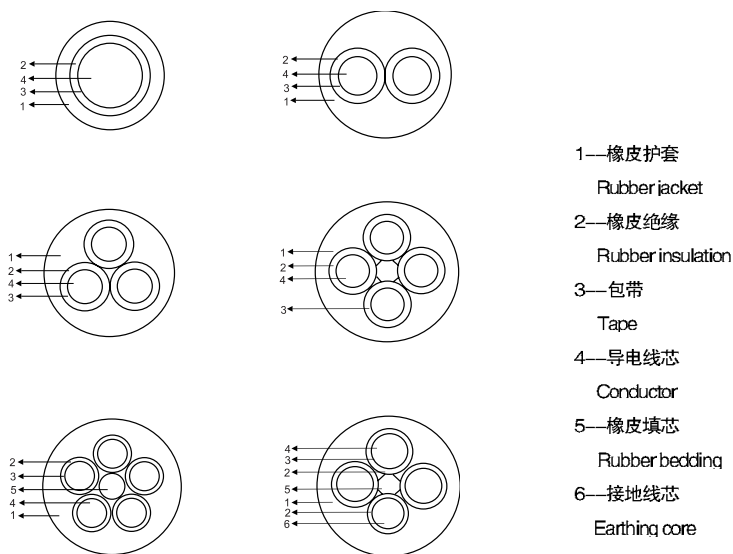


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## 通用橡套软电缆 General purpose Rubber jacketed flexible cable

### 电缆的结构 Construction of cable



### 单芯通用橡套软电缆 Single-core general purpose rubber jacketed flexible cable

导体标称截面mm <sup>2</sup> Normal cross sectional area of conductor core Core x mm <sup>2</sup>	导线直径mm diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径mm Out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 A Current rating A
				最小 Min	最大 Max		
1.5	1.8	0.8	1.4	5.6	7.2	62	29
2.5	2.6	0.9	1.4	6.4	8.0	85	37
4	3.2	1.0	1.5	7.2	9.0	114	47
6	3.9	1.0	1.6	8.0	11.0	148	52
10	5.1	1.2	1.8	9.8	13.0	227	75
16	6.3	1.2	1.9	11.0	14.5	305	112
25	7.8	1.4	2.0	12.5	16.5	446	148
35	9.2	1.4	2.2	14.0	18.5	595	183
50	11.0	1.6	2.4	16.5	21.0	799	226
70	13.1	1.6	2.6	18.5	24.0	1060	289
95	15.1	1.8	2.8	21.0	26.0	1401	353
120	17.0	1.8	3.0	23.0	28.5	1667	415
150	19.0	2.0	3.2	25.0	32.0	2034	460
185	20.0	2.2	3.4	27.5	34.5	2524	529
240	24.0	2.4	3.5	30.5	38.0	3195	636
300	27.0	2.6	3.6	33.5	41.5	3901	732
400	31.0	2.8	3.8	37.5	46.5	5095	877

## 通用橡套软电缆

General purpose Rubber jacketed flexible cable

二芯通用橡套软电缆 Two-core general purpose rubber jacketed flexible cable

导体标称截面 Normal cross-sectional area of conductor 芯 Core × mm <sup>2</sup>	导线直径 diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 Current rating A
				最小 Min	最大 Max		
2 × 1.5	1.8	0.8	1.5	9.0	11.5	147	21
2 × 2.5	2.6	0.9	1.7	10.5	13.5	232	30
2 × 4	3.2	1.0	1.8	12.0	15.0	308	39
2 × 6	3.9	1.0	2.0	13.5	18.5	409	57
2 × 10	5.1	1.2	3.1	18.5	24.0	737	74
2 × 16	6.3	1.2	3.3	21.0	27.5	965	98
2 × 25	7.8	1.4	3.6	24.5	31.5	1444	135
2 × 35	9.2	1.4	3.9	27.5	35.5	1875	167
2 × 50	11.0	1.6	4.3	32.0	41.0	2536	208
2 × 70	13.1	1.6	4.6	36.0	46.0	3257	259
2 × 95	15.1	1.8	5.0	40.5	50.5	4349	318

三芯通用橡套软电缆 Three-core general purpose rubber jacketed flexible cable

导体标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor 芯 Core × mm <sup>2</sup>	导线直径mm diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 Current rating A
				最小 Min	最大 Max		
3 × 1.5	1.8	0.8	1.6	9.6	12.5	178	19
3 × 2.5	2.6	0.9	1.8	11.5	14.5	276	26
3 × 4	3.2	1.0	1.9	13.0	16.0	374	34
3 × 6	3.9	1.0	2.1	14.5	20.5	499	43
3 × 10	5.1	1.2	3.3	20.0	25.5	898	63
3 × 16	6.3	1.2	3.5	22.5	29.5	1191	84
3 × 25	7.8	1.4	3.8	26.5	34.0	1780	115
3 × 35	9.2	1.4	4.1	29.5	38.0	2330	142
3 × 50	11.0	1.6	4.5	34.5	43.5	3054	176
3 × 70	13.1	1.6	4.8	38.5	49.5	4095	224
3 × 95	15.1	1.8	5.3	44.0	54.0	5481	273
3 × 120	17.0	1.8	5.6	48.0	59.0	6459	316
3 × 150	19.0	2.0	6.0	53.0	66.5	7797	454

四芯通用橡套软电缆 Four-core general purpose rubber jacketed flexible cable

导体标称截面 mm <sup>2</sup> Normal cross-sectional area of conductor 芯 Core × mm <sup>2</sup>	导线直径mm diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 Current rating A
				最小 Min	最大 Max		
4 × 1.5	1.8	0.8	1.7	10.5	13.5	219	19
4 × 2.5	2.6	0.9	1.9	12.5	15.5	341	26
4 × 4	3.2	1.0	2.0	14.5	18.0	464	34
4 × 6	3.9	1.0	2.3	16.5	22.0	627	43
4 × 10	5.1	1.2	3.4	21.5	28.0	1101	63
4 × 16	6.3	1.2	3.6	24.5	32.0	1471	84
4 × 25	7.8	1.4	4.1	29.5	37.5	2244	115
4 × 35	9.2	1.4	4.4	33.0	42.0	2942	142



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## 通用橡套软电缆

General purpose Rubber jacketed flexible cable

导体标称截面 Normal cross-sectional area of conductor core Core × mm <sup>2</sup>	导线直径 diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 Calculated weight of cable kg/km	载流量 Current rating A
				最小 Min	最大 Max		
4 × 50	11.0	1.6	4.8	38.0	48.5	3971	176
4 × 70	13.1	1.6	5.2	43.0	55.0	5210	224
4 × 95	15.1	1.8	5.9	49.0	60.5	7024	273
4 × 120	17.0	1.8	6.0	53.0	65.5	8213	316
4 × 150	19.0	2.0	6.5	59.0	74.0	10042	454

### 五芯通用橡套软电缆 Five-core general purpose rubber jacketed flexible cable

导体标称截面 Normal cross-sectional area of conductor core Core × mm <sup>2</sup>	导线直径 mm diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 Calculated weight of cable kg/km	载流量 Current rating A
				最小 Min	最大 Max		
5 × 1.5	1.8	0.8	1.8	11.5	15.0	268	19
5 × 2.5	2.6	0.9	2.0	13.5	17.0	416	26
5 × 4	3.2	1.0	2.2	16.0	19.5	576	34
5 × 6	3.9	1.0	2.5	18.0	24.5	781	43
5 × 10	5.1	1.2	3.6	24.0	31.0	1346	63
5 × 16	6.3	1.2	3.9	27.0	35.5	1818	84
5 × 25	7.8	1.4	4.4	32.5	41.5	2765	115

### 三+一芯通用橡套软电缆 (3+1) core general purpose rubber jacketed flexible cable

导体标称截面 Normal cross-sectional area of conductor core Core × mm <sup>2</sup>		导线直径 diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm		护套标称厚度 Normal thickness of sheath mm	电缆外径 out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 Current rating A
主线芯 Master core	中性线芯 Neutral core		主线芯 Master core	中性线芯 Neutral core		最小 Min	最大 Max		
3 × 2.5	1.5	2.6	0.9	0.8	2.0	12.5	15.5	321	26
3 × 4	2.5	3.2	1.0	0.9	2.0	14.5	17.5	434	34
3 × 6	4	3.9	1.0	1.0	2.2	16.0	21.0	585	43
3 × 10	6	5.1	1.2	1.0	3.0	20.5	26.5	966	63
3 × 16	6	6.3	1.2	1.0	3.5	23.0	30.5	1291	84
3 × 25	10	7.8	1.4	1.2	4.0	28.0	35.5	1963	115
3 × 35	10	9.2	1.4	1.2	4.0	30.0	38.5	2438	142
3 × 50	16	11.0	1.6	1.2	5.0	36.0	46.0	3438	176
3 × 70	25	13.1	1.6	1.4	5.0	40.0	51.0	4465	224
3 × 95	35	15.1	1.8	1.4	5.0	44.0	55.0	5829	273
3 × 120	35	17.0	1.8	1.4	5.0	46.5	59.0	6672	316
3 × 150	50	19.0	2.0	1.6	5.0	52.0	66.0	7707	454



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## 通用橡套软电缆

General purpose Rubber jacketed flexible cable

300/500 YZ, YZW 中型橡套软电缆 Medium-size rubber-sheathed flexible cable

芯数 × 标称截面 Normal cross sectional area of conductor mm <sup>2</sup>	导体中单线最大直径 Diameter of conductor mm	绝缘厚度 Normal thickness of insulation mm	护套厚度 mm Normal thickness of sheath mm	近似外径 Out diameter of cable mm	20°C 时导体电阻最大值 Ω/Km Conductor resistance Max. at 20°C	
					铜芯 Cu-core	镀锡铜芯 Tinned Cu-core
2 × 0.75	0.21	0.6	0.8	7	26.0	26.7
2 × 1.0	0.21	0.6	0.9	7.2	19.5	20.0
2 × 1.5	0.26	0.8	1.0	9.0	13.3	13.7
2 × 2.5	0.26	0.9	1.1	10.5	7.98	8.21
2 × 4	0.31	1.0	1.2	10.6	4.95	5.09
2 × 6	0.31	1.0	1.3	11.8	3.30	3.39
3 × 0.75	0.21	0.6	0.9	7.5	26.0	26.7
3 × 1.0	0.21	0.6	0.9	8.0	19.5	20.0
3 × 1.5	0.26	0.8	1.0	10	13.3	13.7
3 × 2.5	0.26	0.9	1.1	11	7.98	8.21
3 × 4	0.31	1.0	1.2	11.3	4.95	5.09
3 × 6	0.31	1.0	1.3	12.6	3.30	3.39
4 × 0.75	0.21	0.6	0.9	8.0	26.0	26.7
4 × 1.0	0.21	0.6	0.9	8.5	19.5	20.0
4 × 1.5	0.26	0.8	1.1	10.5	13.3	13.7
4 × 2.5	0.26	0.9	1.2	12	7.98	8.21
4 × 4	0.31	1.0	1.3	12.7	4.95	5.09
4 × 6	0.31	1.0	1.4	14.0	3.30	3.39
						(主线芯导体电阻)
3 × 1.5+1 × 1.0	0.26/0.21	0.8/0.6	1.1	8.6	13.3	13.7
3 × 2.5+1 × 1.5	0.26/0.26	0.9/0.8	1.2	10.4	7.98	8.21
3 × 4+1 × 1.25	0.31/0.26	1.0/0.9	1.3	12.3	4.95	5.09
3 × 6+1 × 4	0.31/0.31	1.0/1.0	1.4	13.7	3.30	3.39
5 × 0.75	0.21	0.6	1.0	8.5	26.0	26.7
5 × 1	0.21	0.6	1.0	9.0	19.5	20.0
5 × 1.5	0.26	0.8	1.1	11.0	13.3	13.7
5 × 2.5	0.26	0.9	1.3	13.0	7.98	8.21
5 × 4	0.31	1.0	1.4	14.1	4.95	5.09
5 × 6	0.31	1.0	1.6	15.7	3.30	3.39
6 × 0.75	0.21	0.6	1.0	8.2	26.0	26.7
6 × 1.0	0.21	0.6	1.1	8.7	19.5	20.0
6 × 1.5	0.26	0.8	1.2	10.9	13.3	13.7
6 × 2.5	0.26	0.9	1.4	13.2	7.98	8.21
6 × 4	0.31	1.0	1.5	15.5	4.95	5.09
6 × 6	0.31	1.0	1.7	17.4	3.30	3.39



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## 矿用橡套软电缆

Mine Rubber jacketed flexible cable

### 矿用橡套软电缆

Mine Rubber jacketed flexible cable

矿用橡套软电缆适用于配套矿山各种移动电器设备及采掘机械。

Mine rubber jacketed flexible cable is made for the application in various movable electrical appliance and excavators in mine.

电缆芯长期允许工作温度 The permissible continuous operating temperature of conductor for long term	+65°C
周围环境温度 The mbient temperature	+25°C

### 电缆的型号 Type of cable

型号 Type	名称 Description	使用范围 Application
LZ	电钻电缆 Drill cable	用于交流额定电压0.5kV及以下井下电钻 For drills under well at A.C. rated voltage up to and including 0.5kV
U	矿用移动橡套软电缆 Movable mine rubber jacketed flexible cable	用于交流额定电压1kV及以下井下各种移动电器设备 For various movable electrical appliance under well at A.C. rated voltage upto and including 1kV
UP	矿用移动屏蔽橡套软电缆 Movable mine rubber jacketed metallized shield flexible cable	用于交流额定电压1kV及以下井下各种移动电器设备 For various movable electrical appliance under well at A.C. rated voltage upto and including 1kV
UC	采掘机用橡套软电缆 Excavator rubber jacketed flexible cable	用于交流额定电压1kV及以下井下各种采煤机及掘进机 For coal cutters and exeavators under well at A.C. rated voltage up to and including 1kV
UCP	采掘机用屏蔽橡套软电缆 Excavator rubber jacketed metallized shield flexible cable	用于交流额定电压1kV及以下井下各种采煤机及掘进机 For coal cutters and exeavators under well at A.C. rated voltage up to and including 1kV

### 电缆生产范围 Making range of cable

型号 Type	电压等级 Voltage grade kV	主线芯标称截面 Normal cross sectional area of main core mm <sup>2</sup>	芯数 No. of cores		
			主线芯 Main core	地线芯 Earthing core	控制线芯 Control core
LZ	0.5	2.5,4	3	1	0
			3	1	1
U,UP	1	4	3	1	0
		6~70	3	1	1
			3	1	0
UC,UCP	1	10	3	1	2
		16	3	1	0
			3	1	3
		25-35	3	1	0
50	3	1	4	0	
	3	1	7	0	



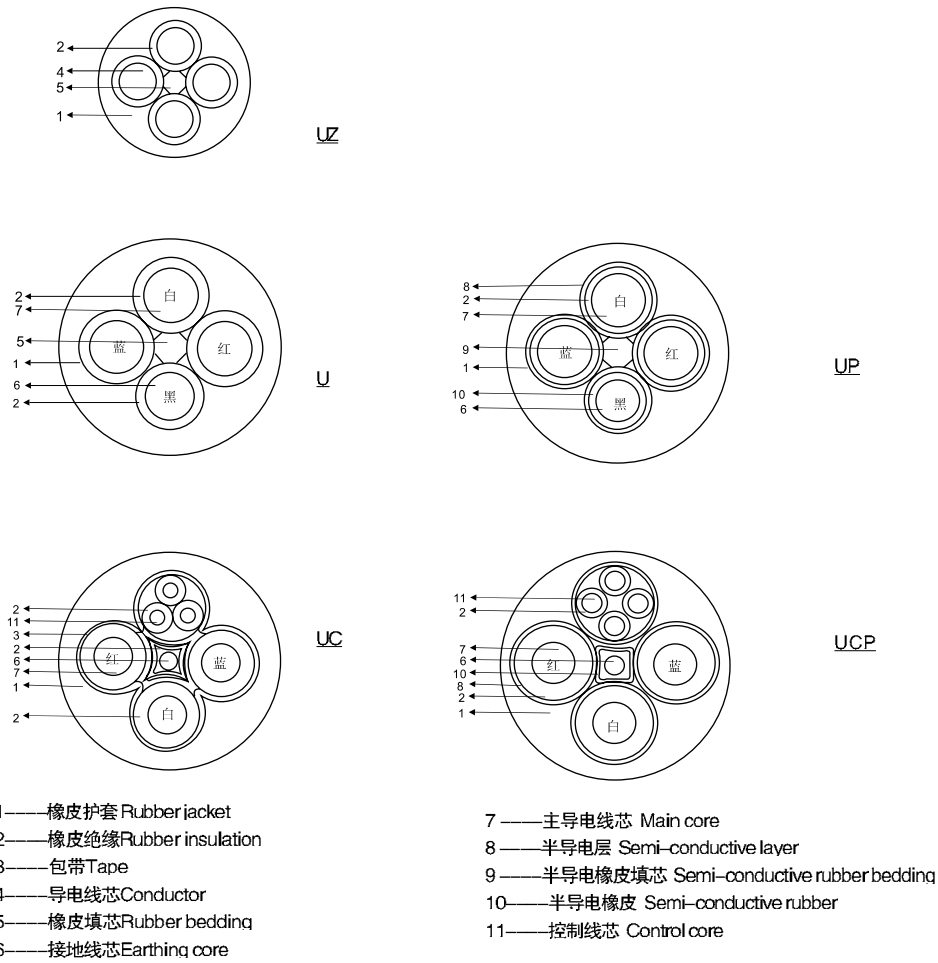
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## 矿用橡套软电缆

Mine Rubber jacketed flexible cable

### 电缆的结构 Construction of cable



### UZ型电缆 Type UZ cable

导体标称截面 Normal cross sectional area of conductor core Core × mm <sup>2</sup>			导线直径 diameter of conductor mm	绝缘标称厚度 Normal thickness of insulation mm	护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm		电缆计算重量 kg/km Calculated weight of cable kg/km	载流量 Current rating A
主线芯 Main core	地线芯 Earthing core	控制线芯 Control core				标称 Normal	最大 Max		
3 × 2.5	1 × 2.5		2.5	1.0	3.5	17.8	19.6	448	27
3 × 2.5	1 × 2.5	1 × 2.5	2.5	1.0	3.5	19.1	21.0	527	27
3 × 4	1 × 4		3.3	1.0	3.5	19.1	21.0	548	36
3 × 4	1 × 4	1 × 4	3.3	1.0	3.5	20.5	22.6	657	36





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## 矿用橡套软电缆 Mine Rubber jacketed flexible cable

### U型电缆 U type cable

导体标称截面 Normal cross sectional area of conductor 芯 Core × mm <sup>2</sup>			导线直径 diameter of conductor mm	绝缘标称厚度 Normal insulation thickness mm			护套标称厚度 Normal jacket thickness mm	电缆外径 Overall diameter of cable mm				电缆计算重量 Calculated weight of cable kg/km		载流量 Current rating A
主线芯 Main core	地线芯 Earthing core	控制线芯 Control core		主线芯 Main core	地线芯 Earthing core	控制线芯 Control core		U型 Type		UP型 Type		U型 Type	UP型 Type	
								标称 Normal	最大 Max	标称 Normal	最大 Max			
3 × 4	1 × 4		2.9	1.4	1.4		3.5	20.7	22.8	23.7	26.1	604	701	36
3 × 4	1 × 4	1 × 4	2.9	1.4	1.4	1.4	3.5	22.3	24.5	26.7	29.4	714	824	36
3 × 6	1 × 6		3.5	1.4	1.4		3.5	22.2	24.4	25.2	27.7	739	839	46
3 × 10	1 × 6		4.9	1.6	1.4		4.0	26.5	29.2	29.6	32.6	1141	1250	64
3 × 16	1 × 6		6.1	1.6	1.4		4.0	29.5	32.5	32.6	35.9	1424	1570	85
3 × 25	1 × 10		7.4	1.8	2.5		4.5	35.0	38.8	38.0	41.0	2099	2159	113
3 × 35	1 × 10		8.7	1.8	2.5		4.5	37.3	40.3	41.5	44.8	2531	2702	138
3 × 50	1 × 10		10.2	2.0	2.5		5.0	42.3	45.3	46.5	49.8	3271	3351	173
3 × 70	1 × 16		12.6	2.0	2.9		5.0	48.5	51.9	51.5	55.1	4269	4405	215

### UC UCP型电缆 UC UCP type cable

导体标称截面 Normal cross sectional area of conductor 芯 Core × mm <sup>2</sup>			导线直径 diameter of conductor mm	绝缘标称厚度 Normal insulation thickness mm			护套标称厚度 Normal thickness of sheath mm	电缆外径 Out diameter of cable mm				电缆计算重量 kg/km Calculated weight of cable kg/km		载流量 Current rating A
主线芯 Main core	地线芯 Earthing core	控制线芯 Control core		主线芯 Main core	地线芯 Earthing core	控制线芯 Control core		UC型 Type		UCP型 Type		U型 Type	UCP型 Type	
								标称 Normal	最大 Max	标称 Normal	最大 Max			
3 × 10	1 × 10		4.8	1.6	1.6		4.5	28.3	31.1	31.3	34.4	1231	1305	64
3 × 10	1 × 10	2 × 10	4.8	1.6	1.6	1.6	4.5	33.0	36.3	37.8	41.6	1725	1814	64
3 × 16	1 × 10		5.9	1.6	1.6		4.5	31.2	34.2	34.4	37.8	1473	1546	85
3 × 16	1 × 4	3 × 2.5	5.9	1.6	-	-	4.5	31.5	34.7	35.8	39.4	1495	1592	85
3 × 25	1 × 10		7.6	1.8	1.6		5.5	37.1	40.2	40.2	43.4	2124	2211	113
3 × 25	1 × 6	4 × 2.5	7.6	1.8	-	-	5.5	37.9	40.9	42.7	46.1	2216	2339	113
3 × 35	1 × 16		8.6	1.8	2.3		5.5	39.8	43.0	42.8	46.2	2639	2733	138
3 × 35	1 × 6	4 × 4	8.6	1.8	-	-	5.5	41.2	44.5	45.3	48.9	2695	2855	138
3 × 50	1 × 16		10.3	2.0	2.3		5.5	44.1	47.2	47.3	50.6	3296	3416	173
3 × 50	1 × 10	7 × 4	10.3	2.0	-	-	5.5	46.9	50.2	50.9	54.5	3596	3772	173

### 不同环境温度对载流量校正系数 Amending ratio of current rating at different ambient temperature

环境温度 Ambient temperature °C	15	20	25	30	35
校正系数 Amending ratio	1.12	1.06	1.00	0.94	0.87

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### 一、额定电压 1.9/3.3kV 及以下采煤机软电缆

Flexible Winning machine cable for rated voltage upto and including 1.9/3.3kV

执行标准: MT818.2-1999 Executive standard: MT818.2-1999

### 一、工作条件 Operating condition

1、额定电压  $U_0/U$  分别为 0.38/0.66kV、0.66/1.14kV 和 1.9/3.3kV。

2、额定电压 0.66/1.14 及以下电缆导体的长期允许工作温度为 65℃；额定电压 1.9/3.3kV 电缆导体的长期允许工作温度为 90℃。

3、电缆的最小弯曲半径为电缆直径的 6 倍。

1. Rated voltage  $U_0/U$  is 0.38/0.66kV, 0.66/1.14kV and 1.9/3.3kV.

2. Long-term operating temperature allowance of conductor for rated voltage upto and including 0.66/1.14kV is 65℃; Long-term operating temperature of conductor for rated voltage 1.9/3.3kV is 90℃.

3. The min. bending radius should be 6 times of cable outer diameter.

### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MC-0.38/0.66	采煤机橡胶套软电缆 Rubber jacket flexible cable for winning machine	额定电压为 0.38/0.66kV 采煤机及类似设备的电源连接 Connected power for winning machine and similar equipment rated voltage 0.38/0.66kV.
MCP-0.38/0.66	采煤机屏蔽橡胶套软电缆 Rubber jacket flexible shield cable for winning machine	额定电压为 0.38/0.66kV 采煤机及类似设备的电源连接 Connected power for winning machine and similar equipment rated voltage 0.38/0.66kV.
MCP-0.66/1.14	采煤机屏蔽橡胶套软电缆 Rubber jacket flexible shield cable for winning machine	额定电压为 0.66/1.14kV 采煤机及类似设备的电源连接 Connected power for winning machine and similar equipment rated voltage 0.66/1.14kV.
MCP-1.9/3.3	采煤机屏蔽橡胶套软电缆 Rubber jacket flexible shield cable for winning machine	额定电压为 1.39/3.3kV 采煤机及类似设备的电源连接 Connected power for winning machine and similar equipment rated voltage 1.39/3.3kV.

MC-0.38/0.66 MCP-0.38/0.66

芯数 × 导体标称截面 (mm <sup>2</sup> ) Core × nominal cross-sectional Area (mm <sup>2</sup> )		标称厚度 (mm) Nominal thickness (mm)		电缆外径 (mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯 Earthing core	动力线芯绝缘 Power core insulation	护套 Sheath	MC-0.66/1.14	MCP-0.66/1.14
3 × 16	1 × 4	1.6	4.5	31.3-34.4	33.2-36.5
3 × 25	1 × 6	1.8	5.5	38.4-41.0	40.3-44.3
3 × 35	1 × 6	1.8	5.5	43.9-48.3	45.8-50.4
3 × 50	1 × 10	2.0	5.5	47.8-51.0	51.5-55.0



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## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### MCP-0.66/1.14

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )			标称厚度(mm) Nominal thickness(mm)			电缆外径(mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯(A) Earthing core	地线芯(B) Earthing core	动力线芯绝缘 Power core insulation	护套(A型) Sheath	护套(B型) Sheath	A型	B型
3 × 35	1 × 6		2.0	6.0	7.0	47.8-51.0	53.2-58.7
3 × 50	1 × 10	3 × 16/3	2.2	7.0	7.5	53.5-58.9	59.0-63.0
3 × 70	1 × 16	3 × 25/3	2.2	7.0	7.5	58.9-63.0	63.8-70.2
3 × 95	1 × 25	3 × 25/3	2.4	7.0	7.5	64.9-71.4	68.7-75.6

### MCP-1.9/3.3

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )			标称厚度(mm) Nominal thickness(mm)			电缆外径(mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯(A) Earthing core	地线芯(B) Earthing core	动力线芯绝缘 Power core insulation	护套(A型) Sheath	护套(B型) Sheath	A型	B型
3 × 35	1 × 16	3 × 16/3	2.8	6.0	7.0	52.1-56.8	60.0-63.0
3 × 50	1 × 25	3 × 16/3	2.8	7.0	7.5	56.4-62.0	63.8-70.2
3 × 70	1 × 35	3 × 25/3	3.0	7.0	7.5	62.7-69.0	69.0-75.9
3 × 95	1 × 50	3 × 25/3	3.0	7.0	7.5	67.8-74.6	73.1-78.0

#### 二、额定电压0.66/1.14kV采煤机屏蔽监视加强型软电缆

Rubber jacket shielded controlled flexible winning cable rated voltage 0.66/1.14kV

执行标准:MT818.2-1999 Executive standard:MT818.3-1999

#### 一、工作条件 Operating condition

- |   |  |
|---|--|
| 1. 额定电压U <sub>0</sub> /U分别为0.66/1.14kV。 | 1. Rated voltage U <sub>0</sub> /U is 0.66/1.14kV.                     |
| 2. 电缆导体的长期允许工作温度为90℃                    | 2. Long-term operating temperature allowance of conductor is 90℃.      |
| 3. 电缆的最小弯曲半径为电缆直径的15倍。                  | 3. The min. bending radius should be 15 times of cable outer diameter. |

#### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MCPJB-0.66/1.14	采煤机屏蔽监视编织加强型橡套软电缆 Rubber jacket shielded controlled fibre strength flexible winning cable	额定电压0.66/1.14kV及以下采煤机及类似设备的电源的连接。电缆可直接拖曳使用。Connected power for winning machine and similar equipment rated voltage 0.38/0.66kV.
MCPJR-0.66/1.14	采煤机屏蔽监视绕包加强型橡套软电缆 Rubber jacket shield controlled wrapped strength flexible winning cable	额定电压0.66/1.14kV及以下采煤机及类似设备的电源的连接。电缆可直接拖曳使用。Connected power for winning machine and similar equipment rated voltage 0.66/1.14kV and below.

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

MCPJR-0.66/1.14 MCPJB-0.66/1.14

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )			标称厚度(mm) Nominal thickness(mm)		护套标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯(A) Earthing core	地线芯(B) Earthing core	动力线芯 Power core	控制和屏蔽线芯 Control and screened core	内护套 Innersheath	外护套 Oversheath	MCPJR-0.66/1.14	MCPJB-0.66/1.14
3 × 35	1 × 6	2 × 2.5	0.6	1.8	1.8	3.0	40.0-44.5	42.0-47.0
3 × 50	1 × 10	2 × 2.5	0.6	2.0	2.0	3.5	45.5-50.5	47.5-51.0
3 × 70	1 × 16	2 × 2.5	0.6	2.0	2.0	3.5	51.5-55.0	52.0-56.5
3 × 95	1 × 25	2 × 2.5	0.6	2.4	2.4	4.0	56.0-61.5	58.0-63.0

### 三、额定电压 1.9/3.3kV 以下采煤机金属屏蔽软电缆

Metallic Shielded flexible winning cable rated voltage upto and including 1.9/3.3kV

执行标准 MT818.2-1999 Executive standard:MT818.3-1999

#### 一、工作条件 Operating condition

- 1、额定电压U<sub>0</sub>/U分别为 0.66/1.14kV.
- 2、电缆导体的长期允许工作温度为 90℃.
- 3、电缆的最小弯曲半径为电缆直径的 6 倍。

- 1.Rated voltage U<sub>0</sub>/U is 0.66/1.14kV.
- 2.Long-term operating temperature allowance of conductor is 90℃.
- 3.The min.bending radius should be 6 times of cable outer diameter.

#### 二、电缆型号、名称、用途 Type,Designation and application of cable

型号 Type	名称 Designation	用途 Application
MCPTJ-0.66/1.14	采煤机金属屏蔽监视型橡胶软电缆 Rubber jacket flexible metallised shield control cable for winning machine	额定电压0.66/1.14kV及以下采煤机及类似设备的电源连接 Connected power for winning machine and similar equipment rated voltage 0.66/1.14kV
MCPT-1.9/3.3	采煤机金属屏蔽橡胶软电缆 Rubber jacket metallised shield flexible cable for winning cable	额定电压0.9/3.3kV及以下采煤机类似的设备的电源连接 Connected power for winning machine and similar equipment rated voltage 1.9/3.3kV
MCPTJ-1.9/3.3	采煤机金属屏蔽监视型橡胶软电缆 Rubber jacket flexible metallised control cable for winning machine	额定电压1.9/3.3kV及以下采煤机类似的设备的电源连接 Connected power for winning machine and similar equipment rated voltage 1.9/3.3kV



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## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### MCPTJ-0.66/1.14

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )			标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯(A) Earthing core	监视线芯 Control core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPTJ-0.66/1.14
3 × 16	1 × 16	1 × 16	1.6	5.0	37.1-40.8
3 × 25	1 × 16	1 × 16	1.6	5.0	41.7-45.9
3 × 35	1 × 16	1 × 16	1.6	5.0	47.2-51.9
3 × 50	1 × 25	1 × 25	1.7	5.3	51.5-56.2
3 × 70	1 × 35	1 × 35	1.8	5.8	57.9-63.0
3 × 95	1 × 50	1 × 50	2.0	6.4	65.1-71.6

### MCPTJ-1.9/3.3

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )			标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯(A) Earthing core	监视线芯 Control core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPTJ-0.66/1.14
3 × 35	1 × 16	1 × 16	2.8	5.0	37.1-40.8
3 × 50	1 × 25	1 × 25	2.8	5.0	41.7-45.9
3 × 70	1 × 35	1 × 35	3.0	5.0	47.2-51.9
3 × 95	1 × 50	1 × 50	3.0	5.3	51.5-56.2

### MCPT-1.9/3.3

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )		标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯(A) Earthing core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPTJ-1.9/3.3
3 × 35	1 × 16	2.8	5.0	55.0-60.7
3 × 50	1 × 25	2.8	5.0	57.8-63.0
3 × 70	1 × 35	3.0	5.0	64.1-70.8
3 × 95	1 × 50	3.0	5.3	69.2-76.2

#### 四、额定电压 0.66/1.14kV 及以下移动软电缆

Rubber jacket movable flexible cable for Rated Voltage upto including 0.66/1.14kV

执行标准: MT818.5-1999 Executive standard: MT818.5-1999

##### 一、工作条件 Operating condition

1、额定电压 U<sub>0</sub>/U 分别为 0.38/0.66kV 和 0.66/1.14kV。

2、电缆导体的长期允许工作温度为 65℃。

3、电缆的最小弯曲半径为电缆直径的 6 倍。

1. Rated voltage U<sub>0</sub>/U is 0.38/0.66kV and 0.66/1.14kV.

2. Long-term operating temperature allowance of conductor is 65℃.

3. The min. bending radius should be 6 times of cable outer diameter.

## 煤矿用阻燃电缆 Flame-resistant Cables for coal mining

### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MY-0.38/0.66	煤矿用移动橡套软电缆 Rubber jacket flexible coal mining cable for movable type	额定电压为0.38/0.66kV 各种井下移动采煤设备的电源连接 Connected power for all kinds of movable for rated voltage 0.38/0.66KV
MYP-0.38/0.66	煤矿用移动屏蔽橡套软电缆 Rubber jacket flexible shield coal mining cable for movable type	额定电压为0.38/0.66kV 各种井下移动采煤设备的电源连接 Connected power for all kinds of movable for rated voltage 0.38/0.66KV
MYP-0.66/1.14	煤矿用移动屏蔽橡套软电缆 Rubber jacket flexible shield coal mining cable for movable type	额定电压为0.66/1.14kV 各种井下移动采煤设备的电源连接 Connected power for all kinds of movable for rated voltage 0.66/1.14KV

#### MY-0.38/0.66

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )	标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
	绝缘 insulation	护套 Sheath	MY-0.38/0.66
1 × 50	1.6	2.4	18.7-20.5
1 × 70	1.6	2.6	20.9-23.0
1 × 95	1.8	2.8	24.2-26.6
1 × 120	1.8	3.0	26.4-29.0
1 × 150	2.0	3.2	30.1-33.1
1 × 185	2.2	3.4	32.7-35.9
1 × 240	2.4	3.5	35.3-38.8
1 × 300	2.6	3.6	40.0-43.3
1 × 400	2.8	3.8	43.4-47.7

#### MY-0.38/0.66 MYP-0.38/0.66

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )		标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯(A) Earthing core	动力线芯绝缘 Power core insulation	护套 Sheath	MY-0.38/0.66	MYP-0.38/0.66
3 × 4	1 × 4	1.4	3.5	20.9-23.0	22.9-25.2
3 × 6	1 × 6	1.4	3.5	22.9-25.1	24.7-27.2
3 × 10	1 × 10	1.6	4.0	27.8-30.6	29.7-32.7
3 × 16	1 × 10	1.6	4.0	30.3-33.3	32.2-35.4
3 × 25	1 × 16	1.8	4.5	36.4-40.1	38.3-41.0
3 × 35	1 × 16	1.8	4.5	40.5-44.6	42.4-46.6
3 × 50	1 × 16	2.0	5.0	45.5-50.1	47.4-51.0
3 × 70	1 × 25	2.0	5.0	51.5-55.1	52.4-57.1

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

MYP-0.66/1.14

芯数 × 导体标称截面 (mm <sup>2</sup> ) Core × nominal cross-sectional Area (mm <sup>2</sup> )		标称厚度 (mm) Nominal thickness (mm)		电缆外径 (mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯 (A) Earthing core	动力线芯绝缘 Power core insulation	护套 Sheath	MYP-0.66/1.14
3 × 10	1 × 10	1.8	4.5	31.7-34.9
3 × 16	1 × 10	1.8	4.5	34.2-37.6
3 × 25	1 × 16	2.0	5.0	40.3-44.3
3 × 35	1 × 16	2.0	5.0	44.4-48.8
3 × 50	1 × 16	2.2	5.5	51.5-54.6
3 × 70	1 × 25	2.2	5.5	53.9-59.3
3 × 95	1 × 25	2.4	6.0	62.1-68.1

### 五、额定电压 3.6/6kV 金属屏蔽监视型软电缆

Rubber jacket metallised shielded controlled flexible cable for Rated Voltage 3.6/6kV

执行标准: MT818.5-1999 Executive standard: MT818.5-1999

#### 一、工作条件 Operating condition

- |                                       |   |
|---------------------------------------|---|
| 1、额定电压 U <sub>0</sub> /U 分别为 3.6/6kV。 | 1. Rated voltage U <sub>0</sub> /U is 3.6/6kV.                        |
| 2、电缆导体的长期允许工作温度为 90℃。                 | 2. Long-term operating temperature allowance of conductor is 90℃.     |
| 3、电缆的最小弯曲半径为电缆直径的 6 倍。                | 3. The min. bending radius should be 6 times of cable outer diameter. |

型号 Type	名称 Designation	用途 Application
MYPTJ-3.6/6	煤矿用移动金属屏蔽监视型橡胶套软电缆 Rubber jacket movable metallised shield flexible Controlled cable for coal mining	额定电压为 3.6/6kV 的井下移动变压器类似设备的电源连接 Connected power for movable transformer and similar equipment under well rated voltage 3.6/6kV

MYPTJ-3.6/6

芯数 × 导体标称截面 (mm <sup>2</sup> ) Core × nominal cross-sectional Area (mm <sup>2</sup> )			标称厚度 (mm) Nominal thickness (mm)			电缆外径 (mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯 (A) Earthing core	监视线芯 Control core	动力线芯 Control core	内护套 Inner Sheath	外护套 Over Sheath	MYPTJ-3.6/6
3 × 25	1 × 16/3	3 × 2.5	4.0	2.5	5.5	57.5-63.0
3 × 35	1 × 16/3	3 × 2.5	4.0	2.5	5.5	62.5-68.6
3 × 50	1 × 25/3	3 × 2.5	4.0	2.5	5.5	64.9-71.4

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### 六、额定电压 3.6/6kV 及以下屏蔽软电缆

Rubber jacket shielded flexible cable for Rated Voltage upto and including 3.6/6kV

执行标准 MT818.7-1999 Executive standard:MT818.7-1999

#### 一、工作条件 Operating condition

- |   |   |
|---|---|
| 1. 额定电压 $U_0/U$ 分别为 1.93/3kV 及 3.6/6kV。 | 1. Rated voltage $U_0/U$ is 1.93/3kV and 3.6/6kV.                     |
| 2. 电缆导体的长期允许工作温度为 90℃。                  | 2. Long-term operating temperature allowance of conductor is 90℃.     |
| 3. 电缆的最小弯曲半径为电缆直径的 6 倍。                 | 3. The min. bending radius should be 6 times of cable outer diameter. |

#### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MYPT-1.9/3.3	煤矿用移动金属屏蔽橡套软电缆 Movable rubber jacket metallised shield flexible cable for coal mining	额定电压为 1.9/3.3kV 井下移动采煤设备的电源连接 Connected power for winning machine under well rated voltage 1.9/3.3kV
MYP-3.6/6	煤矿用移动屏蔽橡套软电缆 Movable rubber jacket shield flexible cable for coal mining	额定电压为 3.6/6kV 移动式地面矿机机械电源连接, 环境温度下限为 -20℃。 Connected power for all kinds of movable for rated voltage 0.38/0.66kV Connected power for winning machine on the ground rated voltage 3.6/6kV allowed ambient low-temperature is -20℃
MYPT-3.6/6	煤矿用移动金属屏蔽橡套软电缆 Movable rubber jacket metallised shield flexible cable for coal mining	
MYDP-3.6/6	煤矿用移动屏蔽橡套软电缆 Movable rubber jacket shield flexible cable for coal mining	额定电压为 3.6/6kV 移动式面矿机机械电源连接, 环境温度下限为 -40℃。 Connected power for winning machine on the ground rated 0 voltage 3.6/6kV allowed ambient low-temperature is -40℃
MYDPT-3.6/6	煤矿用移动金属屏蔽橡套软电缆 Movable rubber jacket metallised shield flexible cable for coal mining	

#### MYPT-1.9/3.3

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )		标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯 Earthing core	动力线芯 Power core	护套 Sheath	MYPT-1.9/3.3
3 × 35	1 × 16/3	2.8	6.0	51.5-55.1
3 × 50	1 × 25/3	2.8	6.0	52.0-56.8
3 × 70	1 × 35/3	3.0	6.0	56.5-62.1
3 × 95	1 × 50/3	3.0	6.0	62.0-68.3

#### MYP-3.6/6 MYDP-3.6/6

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )		标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯 Earthing core	动力线芯 Power core	护套 Sheath	MYP-3.6/6 MYDP-3.6/6
3 × 16	1 × 16	4.0	5.5	50.0-53.0
3 × 25	1 × 16	4.0	5.5	54.3-59.7
3 × 50	1 × 25	4.0	5.5	58.5-63.0
3 × 50	1 × 35	4.0	5.5	62.5-67.7



## 煤矿用阻燃电缆 Flame-resistant Cables for coal mining

MYPT-3.6/6 MYDPT-3.6/6

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )		标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)
动力线芯 Power core	地线芯 Earthing core	动力线芯 Power core	护套 Sheath	MYP-3.6/6 MYDP-3.6/6
3 × 16	1 × 16/3	4.0	5.5	48.8-53.0
3 × 25	1 × 16/3	4.0	5.5	52.5-57.8
3 × 35	1 × 16/3	4.0	5.5	56.1-61.7
3 × 50	1 × 25/3	4.0	5.5	58.7-63.0

### 七、额定电压 0.3/0.5kV 煤矿用 电钻 电缆

Drill cable for coal mining Rated Voltage 0.3/0.5kV

执行标准 MT818.8-1999 Executive standard:MT818.8-1999

#### 一、工作条件 Operating condition

1. 额定电压  $U_0/U$  分别为 0.3/0.5kV。 1. Rated voltage  $U_0/U$  is 0.3/0.5kV.
2. 电缆导体的长期允许工作温度为 65℃。 2. Long-term operating temperature allowance of conductor is 65℃.
3. 电缆的最小弯曲半径为电缆直径的 6 倍。 3. The min. bending radius should be 6 times of cable outer diameter.

#### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MZ-0.3/0.5	煤矿用 电钻 橡胶套 电缆 Rubber jacket drill cable for coal mining	煤矿井下额定电压 0.3/0.5kV 及以下电钻的电源连接 Connected power for drill machine under well rated voltage upto and including 0.3/0.5kV
MZP-0.3/0.5	煤矿用 电钻 屏蔽橡胶套 电缆 Rubber jacket shield drill cable for coal mining	

MZ-0.3/0.5 MZP-0.3/0.5

芯数 × 导体标称截面(mm <sup>2</sup> ) Core × nominal cross-sectional Area(mm <sup>2</sup> )				标称厚度(mm) Nominal thickness(mm)		电缆外径(mm) Overall diameter of cable (mm)	
动力线芯 Power core	地线芯 Earthing core	控制线芯 Control core	标称直径 Nominal diameter(mm)	动力绝缘线芯 Power core insulation	护套 Sheath	MYP-3.6/6	MYDP-3.6/6
3 × 16	1 × 16/3	-	77/0.20	1.0	3.5	17.7-19.4	19.5-21.5
3 × 25	1 × 16/3	-	126/0.20	1.0	3.5	19.1-21.0	21.0-23.1
3 × 35	1 × 16/3	1 × 2.5	77/0.20	1.0	3.5	18.9-20.8	21.1-23.2
3 × 50	1 × 25/3	1 × 4	126/0.20	1.0	3.5	20.5-22.6	22.8-25.1

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### 八、煤矿用移动轻型软电缆

Light type Movable flexible cable for coal mining

执行标准:MT818.9-1999 Executive standard:MT818.9-1999

#### 一、工作条件 Operating condition

- |                               |   |
|-------------------------------|---|
| 1、额定电压 $U_0/U$ 分别为 0.3/0.5kV。 | 1.Rated voltage $U_0/U$ is 0.3/0.5kV.                               |
| 2、电缆导体的长期允许工作温度为 65℃。         | 2.Long-term operating temperature allowance of conductor is 65℃.    |
| 3、电缆的最小弯曲半径为电缆直径的 6 倍。        | 3.The min.bending radius should be 6 times of cable outer diameter. |

#### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation	用途 Application
MYQ-0.3/0.5	煤矿用移动轻型橡套软电缆 Light type movable rubber jacketed soft cable for coal mining	煤矿井下巷道照明, 输送机联锁与信号设备电源连接 Connected power lighting routing machine and signal equipment under well

#### MYQ-0.3/0.5

芯数 × 导体标称截面 (mm <sup>2</sup> ) Core × nominal cross-sectional Area (mm <sup>2</sup> )	标称厚度 (mm) Nominal thickness (mm)		电缆外径 (mm) Overall diameter of cable (mm)
	绝缘 insulation	护套 Sheath	MYQ-0.3/0.5
2 × 1.0	0.6	1.5	8.1-8.9
2 × 1.5	0.8	1.5	9.4-10.3
2 × 2.5	1.0	1.5	11.5-12.7
3 × 1.0	0.6	1.5	8.4-9.0
3 × 1.5	0.8	1.5	9.9-10.9
3 × 2.5	1.0	1.5	12.1-13.4
4 × 1.0	0.6	1.5	9.1-10.1
4 × 1.5	0.8	1.5	10.7-11.8
4 × 2.5	1.0	2.0	14.3-15.7
7 × 1.0	0.6	1.5	10.6-11.7
7 × 1.5	0.8	2.0	13.6-15.0
7 × 2.5	1.0	2.0	16.8-18.4
12 × 1.0	0.6	2.0	14.6-16.0
12 × 1.5	0.8	2.5	18.3-20.1
12 × 2.5	1.0	2.5	22.7-24.9

## 煤矿用阻燃电缆 Flame-resistant Cables for coal mining

### 九、煤矿用聚氯乙烯绝缘电力电缆 PVC insulated power cable for coal mining

执行标准: MT818.12-1999 Executive standard: MT818.12-1999

#### 一、工作条件 Operating condition

1. 电缆导体的长期允许工作温度为70°C
  2. 短路时(最长持续时间不超过5s)电缆导体的最高温度不超过160°C
  3. 敷设电缆时的环境温度:  $\geq 0^{\circ}\text{C}$
1. Long-term operating temperature allowance of conductor is 70°C
  2. Max operating temperature of conductor when cable short-circuited(5s maximum duration): 160°C
  3. The ambient temperature for cable installation:  $\geq 0^{\circ}\text{C}$

#### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation
MVV	煤矿用聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulated PVC sheathed power cable for coal mining
MVV <sub>22</sub>	煤矿用聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 PVC insulated steel tape armoured PVC sheathed power cable for coal mining
MVV <sub>32</sub>	煤矿用聚氯乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 PVC insulated thin steel wire armoured PVC sheathed power cable for coal mining
MVV <sub>42</sub>	煤矿用聚氯乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 PVC insulated thick steel wire armoured PVC sheathed power cable for coal mining

型号 Type	芯数 Core Number	额定电压(kV) Rated Voltage				
		0.6/1	1.8/3	3.6/6	6/6	6/10
		标称截面(mm <sup>2</sup> ) Nominal Cross-sectional Area(mm <sup>2</sup> )				
MVV	3	1.5-300	10-300	10-300		
MVV22	3	2.5-300	10-300	10-300		
MVV32	3	-	-	16-300		
MVV42	3	-	-	16-300		
MVV	3+1	4-300	10-300	-		
MVV22	3+1	4-300	10-300	-		
MVV	4	4-185	4-185	-		
MVV22	4	4-185	4-185	-		

## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### 煤矿用聚氯乙烯绝缘电力电缆

导体标称截面(mm <sup>2</sup> ) Nominal cross-sectional Area(mm <sup>2</sup> )	额定电压(kV) Rated Voltage			
	0.6/1	1.8/3	6/6	6/10
	绝缘厚度(mm) Nominal Thickness of Insulation (mm)			
1.5	0.8	—	—	—
2.5	0.8	—	—	—
4	1.0	—	—	—
6	1.0	—	—	—
10	1.0	2.2	3.4	4.0
16	1.0	2.2	3.4	4.0
25	1.2	2.2	3.4	4.0
35	1.2	2.2	3.4	4.0
50	1.4	2.2	3.4	4.0
70	1.4	2.2	3.4	4.0
95	1.6	2.2	3.4	4.0
120	1.8	2.2	3.4	4.0
150	2.0	2.2	3.4	4.0
185	2.0	2.2	3.4	4.0
240	2.2	2.2	3.4	4.0
300	2.4	2.4	3.4	4.0

### 十、煤矿用交联聚乙烯绝缘电力电缆

XLPE insulated power cable for coal mining

执行标准 MT818.13-1999 Executive standard:MT818.13-1999

#### 一、工作条件 Operating condition

1、电缆导体的长期允许工作温度为 90℃

2、短路时（最长持续时间不超过 5s）电缆导体的最高温度不超过 250℃

1.Long-term operating temperature allowance of conductor is 90℃

2.Max operating temperature of conductor when cable short-circuited(5s maximum duration):250℃



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## 煤矿用阻燃电缆

Flame-resistant Cables for coal mining

### 二、电缆型号、名称、用途 Type, Designation and application of cable

型号 Type	名称 Designation
MYJV	煤矿用交联聚乙烯绝缘聚氯乙烯护套电力电缆 XLPE insulated PVC sheathed power cable for coal mining
MYJV <sub>22</sub>	煤矿用交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulated steel tape armoured PVC sheathed power cable for coal mining
MYJV <sub>32</sub>	煤矿用交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated thin steel wire armoured PVC sheathed power cable for coal mining
MYJV <sub>42</sub>	煤矿用交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated thick steel wire armoured PVC sheathed power cable for coal mining

型号 Type	芯数 Core Number	额定电压(kV) Rated Voltage					
		0.6/1	1.8/3	3.6/6	6/6	6/10	8.7/10
		标称截面(mm <sup>2</sup> ) Nominal Cross-sectional Area(mm <sup>2</sup> )					
MYJV	3	1.5-300	10-300	25-300			25-300
MYJV22	3	4-300	10-300	25-300			25-300
MYJV32	3	4-300	10-300	25-300			25-300
MYJV42	3	4-300	10-300	25-300			25-300

### 煤矿用交联聚乙烯绝缘电力电缆

导体标称截面(mm <sup>2</sup> ) nominal cross-sectional Area(mm <sup>2</sup> )	额定电压(kV) Rated Voltage					
	0.6/1	1.8/3	3.6/6	6/6	6/10	8.7/10
	标称截面(mm <sup>2</sup> ) Nominal Cross-sectional Area(mm <sup>2</sup> )					
1.2	0.7	-	-	-	-	-
2.5	0.7	-	-	-	-	-
4	0.7	-	-	-	-	-
6	0.7	-	-	-	-	-
10	0.7	2.0	2.5	-	-	-
16	0.7	2.0	2.5	3.4	4.5	-
25	0.9	2.0	2.5	3.4	4.5	-
35	0.9	2.0	2.5	3.4	4.5	-
50	1.0	2.0	2.5	3.4	4.5	-
70	1.1	2.0	2.5	3.4	4.5	-
95	1.1	2.0	2.5	3.4	4.5	-
120	1.2	2.0	2.5	3.4	4.5	-
150	1.4	2.0	2.5	3.4	4.5	-
185	1.6	2.0	2.5	3.4	4.5	-
240	1.7	2.0	2.5	3.4	4.5	-
300	1.8	2.0	2.5	3.4	4.5	-

## 通用橡皮电线

General purpose rubber wire

## 通用橡皮电线 General purpose rubber wire

电焊机电缆 YH(YHF) Welding machine cable YH(YHF)

标称截面 Normal cross sectional area of conductor mm <sup>2</sup>	单线最大直径 Max. diameter of single-line mm	绝缘厚度 Normal thickness of insulation mm	护套厚度 Normal thickness of sheath mm	近似外径 Approximate OD mm	20℃时导体最大电阻 Ω /Km, Max.resistance of conductor at 20℃	
					镀锡铜线 Tinned copper wire	铜线 Copper wire
16	0.21	2.0	1.3	10.0	1.19	1.16
25	0.21	2.0	1.3	11.0	0.78	0.758
35	0.21	2.0	1.3	13.0	0.552	0.536
50	0.21	2.2	1.5	14.5	0.39	0.379
70	0.21	2.4	1.6	17.0	0.276	0.268
95	0.21	2.6	1.7	20.0	0.204	0.198

额定电压300/500V橡皮绝缘固定敷设电线 300/500V rubber insulated wire for fixed laying

### 用途 Application

本产品适用于交流额定电压 $U_0/U$ 为300/500V及以下的电气设备及照明装置用固定敷设的铜芯或铝芯橡皮绝缘电线。

The products are the fixedly and copper core or aluminium rubber insulated wires suitable for electrical equipment and lighting device with A.C. rated voltage  $U_0/U$  of 300/500V and below.

### 型号、名称及使用场所 Type, description and applicable occasion

型号 Type	名称 Description	敷设使用场所 Application occasion
BXF BLXF	铜芯橡皮绝缘氯丁或其它相当的合成胶混合物护套电线 铝芯橡皮绝缘氯丁或其它相当的合成胶混合物护套电线 Copper core rubber insulated neoprene or other equivalent synthetic rubber compound sheath wire Aluminium rubber insulated neoprene or other equivalent synthetic rubber compound sheath wire	适用于户内明敷和户外特别是寒冷地区 Suitable for visible laying indoor and outdoor especially for cold area
BXY BLXY	铜芯橡皮绝缘黑色聚乙烯护套电线 铝芯橡皮绝缘黑色聚乙烯护套电线 Copper core rubber insulated black polyethylene sheath wire Aluminum core rubber insulated black polyethylene sheath wire	适用于户内穿管和户外特别是寒冷地区 Suitable for indoor and outdoor especially for cold area
BX BLX	铜芯橡皮绝缘棉纱或其它相当纤维编织电线 铝芯橡皮绝缘棉纱或其它相当纤维编织电线 Copper core rubber insulated cotton yarn or other equivalent fibre knitted wire Aluminum core rubber insulated cotton yarn or other equivalent fibre knitted wire	固定敷设用、可用敷设、暗敷 Used for fixed laying, visible or invisible
BXR	铜芯橡皮绝缘棉纱或其它相当纤维编织软电线 Copper core rubber insulated cotton yarn or other equivalent fibre knitted flexible	室内安装，要求较柔软时用 suitable for in door mounting and used when it requires flexibility

## 通用橡皮电线

General purpose rubber wire

规格范围 The range of specifications

表2 Table2

型号 Type	额定电压(V) Rated voltage	芯数 Cores	标称截面mm <sup>2</sup> Normal cross-sectional area of conductor mm <sup>2</sup>
BXF	300/500	1	0.75-240
BLXF	300/500	1	2.5-240
BXY	300/500	1	0.75-240
BLXY	300/500	1	2.5-240
BX	300/500	1	0.75-630
BLX	300/500	1	2.5-630
BXR	300/500	1	0.75-400

## 结构尺寸及技术参数 Consturctional dimension and technical parameter

BXF、BLXF、BXY、BLXY 型电绝缘和护套厚度之和的平均值应不小于表 3 规定的标称值，其绝缘最薄点的厚度应不小于表 3 的规定值。

The average value of the thickness sum of the insulator and the sheath of type BXF, BLXF, BXY and BLXY wire should not be less than the normal value specified in Table 3, the thickness of the thinnest point of the insulator should not be less than the value specified in Table 3.

表 3 BXF、BLXF、BXY、BLXY 型 Table3 BXF, BLXF, BXY and BLXY type

导体标称截面 Normal cross sectional area of conductor (mm <sup>2</sup> )	导电线芯结构根数/单线标称直径 Constructional root of core of conductor/the nominal diaminal diameter of single wire mm	绝缘与护套厚度之和标 Normal value composed of the thickness of insulator and sheath mm	绝缘最薄点 厚度≥(mm) Thickness of the thinnest point of insulator	护套最薄点厚度 ≥mm) Thickness of the thinnest point of sheath	平均外径上限 Average top limit of OD (mm)	20℃时导体最大电阻 Ω/Km Resistance of conductor ≤20℃		
						铜芯 Copper core	镀锡铜芯 Timred copper core	铝 Aluminium Core
0.75	1/0.97	1.0	0.4	0.2	3.9	24.5	27.4	-
1.0	1/1.13	1.0	0.4	0.2	4.1	18.1	18.2	-
1.5	1/1.38	1.0	0.4	0.2	4.4	12.1	12.2	-
2.5	1/1.78	1.0	0.6	0.2	5.0	7.41	7.56	11.8
4	1/2.25	1.0	0.6	0.2	5.6	4.61	4.70	7.39
6	1/2.76	1.2	0.6	0.25	6.8	3.08	3.11	4.91
10	7/1.35	1.2	0.75	0.25	8.3	1.83	1.84	3.08
16	7/1.70	1.4	0.75	0.25	10.1	1.15	1.16	1.91
25	7/2.14	1.4	0.9	0.30	11.8	0.727	0.734	1.20
35	7/2.52	1.6	0.9	0.30	13.8	0.524	0.529	0.868
50	19/1.78	1.6	1.0	0.30	15.4	0.387	0.391	0.641
70	19/2.14	1.8	1.0	0.35	18.2	0.263	0.270	0.443
95	19/2.52	1.8	1.1	0.35	20.6	0.193	0.195	0.320



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## 通用橡皮电线

General purpose rubber wire

接表3

导体标称截面 Normal cross sectional area of conductor (mm <sup>2</sup> )	导电线芯结构根数/ 单线标称直径(mm <sup>2</sup> ) Constructional root of core of conductor/the nominal diaminal diameter of single wire	绝缘与护套厚度之和标 (mm) Normal value composed of the thickness of insulator and sheath	绝缘最薄点厚度 ≥ (mm) Thickness of the thinnest point of insulator	护套最薄点厚 度 ≥ (mm) Thickness of the thinnest point of sheath	平均外径上限 Average top limit of OD (mm)	20℃时导体电阻(Ω/Km) resistance of conductor ≤ 20℃		
						铜芯 Copper core	镀锡铜芯 Timred copper core	铝 Aluminium Core
120	37/2.03	2.0	1.2	0.40	23.0	0.153	0.154	0.253
150	37/2.25	2.0	1.3	0.40	25.0	0.124	0.126	0.206
185	37/2.52	2.2	1.3	0.40	27.9	0.0991	0.100	0.164
240	61/2.25	2.4	1.4	0.40	31.4	0.0754	0.0762	0.125

BX、BLX、BXR 型电线绝缘厚度的平均值应不小于表 4、表 5 规定的标称值、其最薄点的厚度应不小于标称值的 90% 减去 0.1mm。  
The value of the thickness sum of the insulator of type BX, BLX and BXR wire should not be less than the normal value specified in Table 4 and Table 5

表 4 BX、BLX 型 Table 4 BX、BLX type

标称截面 Normal cross sectional area of conductor (mm <sup>2</sup> )	导电线芯结构根数/ 单线标称直径(mm <sup>2</sup> ) Constructional root of core of conductor/the nominal diaminal diameter of single wire	绝缘标称厚度 mm Normal thickness of insulation mm	平均外径上限 Average top limit of OD mm	20℃时导体最大电阻(Ω/Km) resistance of conductor at 20℃	
				铜芯 copper core	铝芯 Aluminium Core
0.75	1/0.97	1.0	4.4	24.5	-
1	1/1.13	1.0	4.5	18.1	-
1.5	1/1.38	1.0	4.8	12.1	-
2.5	1/1.78	1.0	5.2	7.41	11.8
4	1/2.25	1.0	5.8	4.61	7.39
6	1/2.76	1.0	6.3	3.08	4.91
10	7/1.35	1.2	8.2	1.83	3.08
16	7/1.70	1.2	9.4	1.15	1.91
25	7/2.14	1.4	11.2	0.727	1.20
35	7/2.52	1.4	12.5	0.524	0.868
50	19/1.78	1.6	14.4	0.387	0.641
70	19/2.14	1.6	16.4	0.263	0.443
95	19/2.52	1.8	18.9	0.193	0.320
120	37/2.03	1.8	19.8	0.153	0.253
150	37/2.25	2.0	21.8	0.124	0.206
185	37/2.52	2.2	24.2	0.0991	0.164
240	61/2.25	2.4	27.4	0.0754	0.125
300	61/2.52	2.6	30.3	0.0601	0.100
400	61/2.85	2.8	33.9	0.0470	0.0778
500	91/2.65	3.0	38.0	0.0366	0.0603
630	127/2.52	3.2	42.2	0.0283	0.0469

表 5 BXR 型 Table 5 BXR type

标称截面 Normal cross sectional area of conductor (mm <sup>2</sup> )	导电线芯结构根数/ 单线标称直径(mm <sup>2</sup> ) Constructional root of core of conductor/the nominal diaminal diameter of single wire	绝缘标称厚度 mm Normal thickness of insulation mm (mm)	平均外径上限 Average top limit of OD (mm)	20℃时导体最大电阻(Ω/Km) Max. resistance of conductor ≤ 20℃
0.75	7/0.37	1.0	4.5	24.5
1	7/0.43	1.0	4.7	18.1
1.5	7/0.52	1.0	5.0	12.1
2.5	19/0.41	1.0	5.6	7.41
4	19/0.52	1.0	6.2	4.61
6	19/0.64	1.0	6.8	3.08
10	49/0.52	1.2	8.9	1.83
16	49/0.64	1.2	10.1	1.15
25	98/0.58	1.4	12.6	0.727
35	133/0.58	1.4	13.8	0.524
50	133/0.68	1.6	15.8	0.387
70	189/0.68	1.6	18.4	0.263
95	259/0.68	1.8	20.8	0.193
120	259/0.76	1.8	21.6	0.153
150	336/0.74	2.0	25.9	0.124
185	427/0.74	2.2	26.6	0.0991
240	427/0.85	2.4	30.2	0.0754
300	513/0.85	2.6	33.3	0.0601
400	700/0.85	2.8	38.2	0.0470



## 电梯电缆

Elevator electric cable

## 电梯电缆 Elevator electric cable

### 一、产品简介 Brief product introduction

本产品适用于交流额定电压300/500V及以下的高层建筑中的电梯设施上。电缆的长期允许工作温度应不超过65℃。电缆安装使用前应自由垂吊，充分退扭，电缆加强芯应固定，同时承受拉力。

执行标准：GB5013·4

### 二、电缆的型号、名称及使用范围 Type, description and main application of the cable

型号 Type	名称 Description	使用范围 Main Application
YT	橡皮护套电梯电缆	用于户内
YTF	氯丁或其它相当的合成胶 弹性体护套电梯电缆	用于户内、户外接触油污或 要求非延燃的场合。

### 四、规格尺寸、重量及技术参数 Specifications, size, weight and technological data

YT型、YTF型

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)		参考重量 Reference weight (kg/km)	
			铜芯	镀锡铜芯	YT型	YTF型
(6×0.75)	24/0.20	14.8	27.3	28.0	243.6	262.5
6×1.0	3280.20	15.3	20.5	21.0	270.6	290.1
(9×0.75)	24/0.20	18.3	27.3	28.0	359.7	382.4
9×1.0	3280.20	18.9	20.5	21.0	395.7	419.3
(12×0.75)	24/0.20	22.9	27.3	28.0	567.2	606.9
12×1.0	3280.20	23.7	20.5	21.0	621.1	662.8
(18×0.75)	24/0.20	24.0	27.3	28.0	647.2	694.2
18×1.0	3280.20	24.8	20.5	21.0	721.9	772.1
(24×0.75)	24/0.20	27.5	27.3	28.0	834.6	888.6
24×1.0	3280.20	28.4	20.5	21.0	927.8	984.6
(30×0.75)	24/0.20	30.9	27.3	28.0	1069.9	1137.7
30×1.0	3280.20	32.0	20.5	21.0	1180.1	1250.4

注：（1）括号内的芯数和截面为非优先的结构。（2）上述芯数并不排除其它芯数或更多芯数的结构。

### 四、交货要求 Delivery requirements

4.1 电缆的交货长度：成圈者为100m，成整盘者应大于100m。短段电缆长度24芯及以下应不小于20m，30芯应不小于30m。短段电缆的交货数量应不超过交货总长度的10%，且每个包装件中应不超过五段。

4.2 根据双方协议允许任何长度的电缆交货

## 橡皮护套引接线

Rubber Insulation Butyronitrile Sheath

## 橡皮护套引接线

Rubber Insulation Butyronitrile Sheath

### 一、产品简介 Brief product introduction

JBQ适用于交流额定电压1140V及以下的B级绝缘电机、电器绕组连接并引出机壳体上的接线柱连接用电缆。JEFR适用于变压器、电机、配电装置及各种成套设备引接线。

### 二、电缆的型号、名称及使用范围 Type, description and main application of the cable

型号Type	名称Description	使用范围 Main Application
JBQ-500V	JBQ型橡皮绝缘丁睛护套引接线 JBQ Leading Wire Of Rubber Insulation Butyronitrile Sheath	额定电压500V以下 绝缘电机、电器连接使用
JBQ-1140V	JBQ型橡皮绝缘丁睛护套引接线 JBQ Leading Wire Of Rubber Insulation Butyronitrile Sheath	额定电压1140V以下 绝缘电机、电器连接使用
JEFR-500V	JEFR型橡皮绝缘丁睛护套引接线 JEFR Leading Wire Of Rubber Insulation Butyronitrile Sheath	额定电压500V以下 绝缘电机、变压器、配电装置连接使用

### 四、规格尺寸、重量及技术参数 Specifications, size, weight and technological data

JBQ-500V、JBQ-1140V

导线标称 截面 Conductive nominal section (mm <sup>2</sup> )	导电线芯 Conductive core  根数/线径 Number/diameter of core(mm)	绝缘标称厚度 Nominal insulation thickness (mm)		平均最大外径 Outer sheath thickness ( mm <sup>2</sup> )		20℃导 体电阻 ≤ ( Ω /km) 20℃ Conductor resistance	参考重量 Reference weight (kg/km)	
		JBQ- 500V	JBQ- 1140V	JBQ- 500V	JBQ- 1140V		JBQ- 500V	JBQ- 1140V
0.5	28 / 0.15	0.6	1.0	2.7	3.5	38.5	20	29
0.75	42 / 0.15	0.6	1.0	2.9	3.8	25.7	24	33
1.0	32 / 0.20	0.6	1.0	3.1	3.9	18.9	28	37
1.5	48 / 0.20	0.6	1.0	3.4	4.3	12.6	35	44
2.5	19 / 0.41	0.8	1.2	4.2	5.1	7.59	57	69
4	19 / 0.52	0.8	1.2	4.8	5.7	4.54	76	89
6	19 / 0.64	0.8	1.2	5.5	6.4	3.00	100	115
10	49 / 0.52	1.0	1.4	7.6	8.5	1.78	178	197
16	49 / 0.64	1.0	1.4	8.8	9.6	1.18	243	264
25	98 / 0.58	1.0	1.4	11.3	11.2	0.716	372	398
35	133 / 0.58	1.0	1.4	12.1	12.9	0.528	471	499
50	133 / 0.68	1.2	1.6	13.9	14.3	0.384	647	679
70	189 / 0.68	1.2	1.6	16.4	17.3	0.270	876	914
95	259 / 0.68	1.4	1.8	18.7	19.2	0.197	1160	1202
120	259 / 0.76	1.6	1.8	21.0	21.4	0.158	1451	1475
150	320 / 0.76	1.8	1.8	24.6	24.6	0.132	1911.5	1911.5
185	395 / 0.76	1.8	1.8	27.6	27.6	0.108	2268.65	2268
240	513 / 0.76	2.2	2.2	29.0	29	0.0817	3010	3010
300	641 / 0.76	2.4	2.4	31.0	31	0.0654	3770	3770

## 橡皮护套引接线 Rubber Insulation Butyronitrile Sheath

JEFR-500V

导线标称截面 Conductive nominal section (mm <sup>2</sup> )	导电线芯 Conductive core		绝缘标称厚度 Nominal insulation thickness (mm)	护套标称厚度 Thickness of section sheath (mm)	平均最大外径 Outer sheath thickness (mm)	20℃导体电阻 ≤ (Ω /km) 20℃ Conductor resistance	参考重量 Reference weight (kg/km)
	根数/线径 Number/diameter of core(mm)						
0.5	28 / 0.15		0.6	0.8	1.3	38.5	29
0.75	42 / 0.15		0.6	0.8	4.5	25.7	33
1.0	32 / 0.20		0.6	0.8	4.7	18.9	37
1.5	48 / 0.20		0.6	0.8	5.0	12.6	44
2.5	19 / 0.41		0.8	1.0	6.2	7.59	69
4	19 / 0.52		0.8	1.0	6.8	4.54	89
6	19 / 0.64		0.8	1.0	7.5	3.00	115
10	49 / 0.52		1.0	1.2	10.0	1.78	197
16	49 / 0.64		1.0	1.2	11.2	1.18	264
25	98 / 0.58		1.0	1.4	13.7	0.716	398
35	133 / 0.58		1.0	1.4	14.9	0.528	499
50	133 / 0.68		1.2	1.6	17.1	0.384	679
70	189 / 0.68		1.2	1.6	19.6	0.270	914
95	259 / 0.68		1.4	1.6	21.9	0.197	1202
120	259 / 0.76		1.6	1.8	24.6	0.158	1475
150	320 / 0.76		1.8	2.2	29	0.132	1911.5
185	395 / 0.76		1.8	2.2	32	0.108	2268
240	513 / 0.76		2.2	3.0	35	0.0817	3010
300	641 / 0.76		2.4	3.5	38	0.0654	3770

### 四、产品技术要求 Technological requirement

- 4.1 导体采用镀锡铜丝，其结构性能符合JB947要求。
- 4.2 绝缘橡皮性能符合JB664标准规定。  
绝缘厚度允许偏差-10%，其最薄处的厚度不小于标称值的90%-0.1mm。  
护套橡皮厚度允许偏差-20%，其最薄处不小于80%。
- 4.3 成品电线须经受JB1171规定的交流50Hz耐压试验。
- 4.4 JEFR成品电线须经受Q/SHSL0118规定的交流50Hz耐压试验。
- 4.5 电线应能经受浸漆试验，电线经130±5℃，5小时恒温后，浸入温度为50±5℃的1032漆中30分钟，取出滴干，再经130±5℃，48小时恒温，最后将电线卷绕在规定直径的圆棒上，电线护套层应无开裂，脆裂和发粘等现象。

### 五、交货要求 Delivery requirements

电缆的交货长度成圈者为100m，成盘者应不小于100m，允许不小于20m的短段交货，短段电缆的交货数量不超过交货总长度的10%，根据双方协议允许在任何长度的电缆交货。

## 船用电缆

Cable for steamers (JB/T8141-1995)

## 船用电缆

Cable for steamers (JB/T8141-1995)

### 一、产品简介 Brief product introduction

该产品适宜在各种河海船舶及海上石油平台等水上建筑物中作传输电能用。额定电压 $U_0/U$ 为0.6/1KV,电缆的长期允许工作温度为70℃。产品具有符合DA及SA的燃烧特性。

The rated voltage  $U_0/U$  is 0.6/1KV, long time allowed working temperature 70℃ of cables production has the fire character of DA and SA.

### 二、型号及名称使用条件 Model name and application

名称 Name	型号 Model	使用条件 application	
CXF	天然丁苯绝缘氯丁护套船用电力电缆 Natural butadiene styrene insulator chlorosrene sheathed. Power cable for steamers.	固定敷设 fixed intallation	
CXF80	天然丁苯绝缘氯丁内护套裸铜丝编织装铠船用电力电缆 Natural butadiene styrene insulator chlorosrene. Inner sheathed nude-cufibe hraid armored powerd power cable for steamers		
CXF90	天然丁苯绝缘氯丁内套裸铜丝编织装铠船用电力电缆 Natural butadiene styrene insulator chlorosrene inner steel fibe braid armored pet outer sheathed power cable for steamers		
CXF92	天然丁苯绝缘氯丁内套裸铜丝编织聚氯乙稀外套船用电力电缆 Natural butadiene styrene insulator chlorosrene inner steel fibe braid armored pet outer sheathed powe cable for steamers		
CXV	天然丁苯绝缘氯丁护套船用电力电缆 Natural butadiene styrene insulator pvc sheathed. Power cable for steamer.		
CXV80	天然丁苯绝缘氯丁内护套裸铜丝编织装铠船用电力电缆 Natural butadiene styrene insulator pvc inner sheathed nudecu-fibe armored power cable for steamers.		
CXV90	天然丁苯绝缘氯丁内套裸铜丝编织装铠船用电力电缆 Natural butadiene styrene insulated pvc inner sheathed nude steel-fibe braid armored power cable for steamer.		
CXV92	天然丁苯绝缘氯丁内套裸铜丝编织装聚氯乙稀外套船用电力电缆 Natural butadiene styrene insulator pvc inner sheathed steel fibe braid armored pvc outer sheathed power cable for steamers		
CXFR	天然丁苯绝缘氯丁护套船用电力软电缆 Natural butadiene styrene insulated chorosrene sheathed. Power soft cable for steamers.		连接移动电器 conectde moved cable
CFF/DA	乙丙绝缘氯丁护套船用电力电缆DA型 Datype bc insulated chlorosrene inner sheathed nude cufibe braid armored marine power cable		



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## 船用电缆

Cable for steamers (JB/T8141-1995)

名称 Name	型号 Model	使用条件 application
CEF80/DA	乙丙绝缘氯丁内护套裸铜丝编织装铠船用电力电缆DA型 Datype bc insulated chlorosrene inner sheathed nude cufibe braid armored marine power cable	固定敷设 fied intallation
CEF90/DA	乙丙绝缘氯丁内护套裸铜丝编织装铠船厂用电力电缆, DA型 Datype bc insulated chlorosrene inner sheathed nude steel fibe braid armored marine power cable	
CEF82/DA	乙丙绝缘氯丁内套裸铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated chlorosrene sheathed cufibe braid armored dav orter sheathed marine power cable	
CEF92/DA	乙丙绝缘氯丁内套裸铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated Chlorosrene sheathed steel fibe braid armored dav orter sheathed marine power cable	
CEFR/DA	乙丙绝缘氯丁护套船用电力软电缆, DA型 Datype bc insulated chlorosrene sheathed marine power soft cable	
CEV/DA	乙丙绝缘氯乙烯护套船用电力电缆, DA型 Datype bc insulated chlorosrene marine power foft cable	
CEV80/DA	乙丙绝缘氯乙烯内套裸铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated pvc inner sheathed nudecu fibe braid armored marine power cable	
CEV90/DA	乙丙绝缘氯乙烯内套裸铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated pvc inner sheathed nupe steel fibe braid armored marine power cable	
CEV82/DA	乙丙绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated pvc inner sheathed cufibe braid armored pvc outer sheathed narine power cable	
CEV92/DA	乙丙绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯外套船用电力电缆, DA型 Datype bc insulated pvc innersheathed steel fibe braid armoreddvc outer sheathed marine power cable	
CVV/DA	聚氯乙烯绝缘聚氯乙烯护套船用电力电缆DA型 Datype pvc insulated and outer sheath marine power soft cable	固定敷设, 用于防干扰场所 fied intallation
CVV80/DA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织铠装船用电力电缆, DA型 Datype pvc insulated and innder theath bare cu wire braid armored marine or cable	
CVV90/DA	聚氯乙烯绝缘聚氯乙烯内套裸铜丝编织铠装船用电力电缆, DA型 Datype pvc insulated and outer sheath cu wire braid armore matine power	
CVV92/DA	聚氯乙烯绝缘聚氯乙烯内套铜丝编织铠装聚氯乙烯外套船用电力电缆DA型 Datype pvc insulated pvc outer sheath and outer sheth steet wire	同上

## 船用电缆

Cable for steamers (JB/T8141-1995)

### 三、技术要求 Technological requirements

3.1 产品的技术性能应符合GB9331-88标准各项指标规定。

The technological property of product should be coincided with GB9331-88 norms.

3.2 软电缆应经受单程30000次曲绕试验。

Flexible cable should be able to bear 30000times one way bending and winding test.

### 四、生产范围 Range of production

型号 Type	额定电压 Rated voltage(v)	芯数 Number of scores	标准截面 Nominal corss-sectional aera of conductor(mm <sup>2</sup> )
全部 型号	0.6/1KV	1	1~300
		2	1~200
		3	1~180
		4~37	1~2.5

### 五、交货要求 Deliver requirements

电缆的交货长度不小于150m (三芯及以下和导体截面不大于2.5mm<sup>2</sup>)。其他电经缆允许长度不小于20m的短段电缆交货,但其数量应不超过交货长度的10%长度误差±0.5m,根据双方协议允许任何长度的电缆交货。同时还可为用户提供特种船用电缆。

The length of cable for edelivery should be not less than 150m(Three cores and the conductor section is not bigger than 2.5mm). Other cable if permittgd in advance can have shorter length of 20m for delivery but puantity should be oimited in 10%.The length error of the delivery can be decided by mutual agreement.

### 船用控制电缆

型号: CKVV/DA、CKVV80/DA、CKVV90/DA、CKVV82/DA、CKVV92/DA、CKJV/DA、CKVV/SA、CKJ82/SB、CKJ8S/SC、CKJ82/DA、CKJV/SA、CKJS/SC、CKJG/SC、CKV/SB等系列。

执行标准: 本产品按照JB/T8140-1995、JB/T8141-1995标准制造。

用途: 本产品广泛适用于各种船舶及海上石油平台等水上建筑物的控制和类似电路。

使用特性及主要技术性能:

1.额定电压: 250V 2.电缆导体的最高长期允许工作温度; 聚氯乙烯绝缘电缆: 70℃; 交联聚乙烯绝缘: 90℃。3.敷设时电缆的最小弯曲为6D、4D、6D。

### 船用电力电缆

型号: CEF/DA、CEH/DACEH/SA、CEFR/DACEFR/SA、CEHR/DACEHR/SA、CEV/DACEV/SA、CXF、CXV、CXFR、CVV/DACVV/SACVV/SB、CJV/DACJV/SA、CJS/SC、CJ8S/SC、CJ9S/SC等系列。

执行标准: 本产品按照JB/T8140-1995、JB/T8141-1995标准制造。

用途: 船用电力电缆适用于河海各种船舶及海上石油平台等水上建筑物的动力、照明和一般控制装置。

使用特性及主要技术性能:

1.额定电压U<sub>0</sub>/U:0.6/1KV 2.除软电缆中供移动设备使用之外,其他电缆均为固定敷设,敷设时电缆的允许弯曲半径为6D、4D、6D。3.电缆最低敷设温度: 聚氯乙烯护套为-15℃,其他均为-20℃。

## 铝绞线及钢芯铝绞线 Aluminum stranded wire steel core stranded wire

### 铝绞线及钢芯铝绞线 Aluminum stranded wire steel core stranded wire

本产品为用于架空电力线路用的铝绞线及钢芯铝绞线。

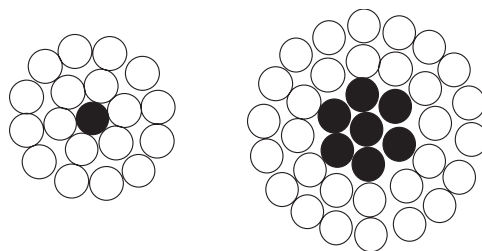
本标准的规定与国际电工委员会 (IEC) pub 207《铝绞线》及 pub 209《钢芯铝绞线》的规定相一致。

The product is used in aluminium stranded wire and steel core stranded wire for overhead power line.

The standard is in accordance with the stipulations specified by pub 207《aluminium stranded wire》and pub 209《Aluminium conductor steel reinforce》issued by IEC.

#### 电缆的型号 Type of cable

型号 Type	名称 Description
LJ	铝绞线 Aluminium stranded wire
LGJ	钢芯铝绞线 Aluminium conductor steel reinforced
LGJF	防腐钢芯铝绞线 Anti-corrosive aluminium conductor steel reinforce



#### 电缆的规格 Specifications of cable

规格用标称截面表示。

铝绞线的规格应符合表 2 规定。

钢芯铝绞线及防腐钢芯铝绞线的规格应符合表 3 规定。

Specifications are shown by normal section.

The specification of aluminium strand cable should meet the requirement of table 2.

The specification of aluminium conductor steel reinforced and anti-corrosive aluminium conductor steel reinforced should meet the requirements of table 4.

表2 Table 2

标称截面 mm <sup>2</sup>	结构根数/直径 mm	计算截面 mm <sup>2</sup>	外径 mm	直流电阻不大于 Ω/km	计算拉断力 N	计算重量 kg/km	交货长度不小于m
16	7/1.70	15.89	5.10	1.802	2810	13.5	4000
25	7/2.15	25.41	6.45	1.127	4355	69.6	3000
35	7/2.50	34.36	7.50	0.8332	5760	94.1	2000
50	7/3.00	49.48	9.00	0.5786	7930	135.5	1500
70	7/3.60	71.25	10.80	0.4018	10950	195.1	1250
95	7/4.16	95.14	12.48	0.3009	14450	260.5	1000
120	19/2.85	121.21	14.25	0.2373	19420	333.5	1500
150	19/3.15	148.07	15.75	0.1943	23310	407.4	1250
185	19/3.50	182.80	17.50	0.1574	28440	503.0	1000
210	19/3.75	209.85	18.75	0.1371	32260	577.4	1000
240	19/4.00	238.76	20.00	0.1205	36260	656.9	1000
300	37/3.20	297.57	22.40	0.09689	46850	820.4	1000
400	37/3.70	397.83	25.90	0.07247	61150	1097	1000
500	37/4.16	502.90	29.12	0.05733	76370	1387	1000
630	61/3.63	631.30	32.67	0.04577	91940	1744	800
800	61/4.10	805.36	36.90	0.03588	11590	2225	800



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Aluminum stranded wire steel  
core stranded wire

表3 Table 3

标称截面 铝/钢 mm <sup>2</sup>	结构, 根数 / 直径 mm		计算截面mm <sup>2</sup>		
	铝A1	钢 G	铝A1	钢 G	总计Total
10/2	6/1.50	1/1.50	10.60	1.77	12.37
16/3	6/1.85	1/1.85	16.13	2.69	18.82
25/4	6/2.32	1/2.32	26.36	4.23	29.59
35/6	6/2.72	1/2.72	34.86	5.81	40.67
50/8	6/3.20	1/3.20	18.25	8.01	26.26
50/30	12/2.32	7/2.32	50.73	29.59	80.32
70/10	6/3.80	1/3.80	68.05	11.34	79.39
70/40	12/2.72	7/2.72	69.73	40.67	110.40
95/15	26/2.15	7/1.67	94.39	15.33	109.72
95/20	7/4.16	7/1.85	95.14	18.82	113.96
95/55	12/3.20	7/3.20	96.51	56.30	152.81
120/7	18/2.90	1/2.90	118.89	6.61	125.50
120/20	26/2.38	7/1.85	115.67	18.82	134.49
120/25	7/4.72	7/2.10	122.48	24.25	146.73
120/70	12/3.60	7/3.60	122.15	71.25	193.40
150/8	18/3.20	1/3.20	144.76	8.04	152.80
150/20	24/2.78	7/1.85	145.68	18.82	164.50
150/25	26/2.70	7/2.10	148.86	24.25	173.11
150/35	30/2.50	7/2.50	147.26	34.36	181.62
185/10	18/3.60	1/3.60	183.22	10.18	193.40
185/25	24/3.15	7/2.10	187.04	24.25	211.29
185/30	26/2.98	7/2.32	181.34	29.59	210.93
185/45	30/2.80	7/2.80	184.73	43.10	227.83
210/10	18/3.80	1/3.80	204.14	11.34	215.48
210/25	24/3.33	7/2.22	209.02	27.10	236.12
210/35	26/3.22	7/2.50	211.73	34.36	246.09
210/50	30/2.98	7/2.98	209.24	48.82	258.06
240/30	24/3.60	7/2.40	244.29	31.67	275.96
240/40	26/3.42	7/2.66	238.82	38.90	277.72
240/55	30/3.20	7/3.20	241.27	56.30	297.57
300/15	42/3.00	7/1.67	296.88	15.33	312.21
300/20	45/2.93	7/1.95	303.42	20.91	324.33
300/25	48/2.85	7/2.22	306.21	27.10	333.31
300/40	24/3.99	7/2.66	300.09	38.90	338.99
300/50	26/3.83	7/2.98	299.54	48.82	348.36
300/70	30/3.60	7/3.60	305.36	71.25	376.61
400/20	42/3.51	7/1.95	406.40	20.91	427.31
400/25	45/3.33	7/2.22	391.91	27.10	419.01
400/35	48/3.22	7/2.50	390.88	34.36	425.24
400/50	54/3.07	7/3.07	399.73	51.82	451.55
400/65	26/4.42	7/3.44	398.94	65.06	464.00
400/95	30/4.16	19/2.50	407.75	93.27	501.02
500/35	45/3.75	7/2.50	497.01	34.36	531.37
500/45	48/3.60	7/2.80	488.58	43.10	531.68
500/65	54/3.44	7/3.44	501.88	65.06	566.94
630/45	45/4.20	7/2.80	623.45	43.10	666.55
630/55	48/4.12	7/3.20	639.92	56.30	696.22
630/80	54/3.87	19/2.32	635.19	80.32	715.51
800/55	45/4.80	7/3.20	814.30	56.30	870.60
800/70	48/4.63	7/3.60	808.15	71.25	879.40
800/100	54/4.33	19/2.60	795.17	100.88	896.05





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铝绞线及钢芯铝绞线  
Aluminum stranded wire steel  
core stranded wire

表4 Table 4

标称截面铝/钢mm <sup>2</sup>	外径mm	直流电阻不大于Ω/km	计算拉断力 N	计算重量kg/km	交货长度不小于m
10/2	4.50	2.706	1120	42.9	3000
16/3	5.55	1.779	6130	65.2	3000
25/4	6.96	1.131	9290	102.6	3000
35/6	8.16	0.8230	12630	141.0	3000
50/8	9.60	0.5946	16870	195.1	2000
50/30	11.60	0.5692	42620	372.0	3000
70/10	11.40	0.4217	23390	275.2	2000
70/40	13.60	0.4141	58300	511.3	2000
95/15	13.61	0.3058	35000	380.8	2000
95/20	13.87	0.3019	37200	408.9	2000
95/55	16.00	0.2992	78110	707.7	2000
120/7	14.50	0.2422	27570	379.0	2000
120/20	15.07	0.2496	41000	466.8	2000
120/25	15.74	0.2345	47880	526.6	2000
120/70	18.00	0.2364	96370	856.6	2000
150/8	16.00	0.1989	32860	461.4	2000
150/20	16.67	0.1980	46630	549.4	2000
150/25	17.10	0.1939	54110	601.0	2000
150/35	17.50	0.1962	65020	676.2	2000
185/10	18.00	0.1572	40880	584.0	2000
185/25	18.90	0.1542	59420	706.1	2000
185/30	18.88	0.1592	64320	732.6	2000
185/45	19.60	0.1564	80190	848.2	2000
210/10	19.00	0.1411	45140	650.7	2000
210/25	19.98	0.1380	65990	789.1	2000
210/35	20.38	0.1363	74250	853.9	2000
210/50	20.86	0.1381	90830	960.8	2000
240/30	21.60	0.1181	75620	922.2	2000
240/40	21.66	0.1209	83370	964.3	2000
240/55	22.40	0.1198	102100	1108.0	2000
300/15	23.01	0.09724	68060	999.8	2000
300/20	23.43	0.09520	75680	1002	2000
300/25	23.76	0.09433	83410	1058	2000
300/40	23.94	0.09614	92220	1133	2000
300/50	24.26	0.09636	103400	1210	2000
300/70	25.20	0.09463	128000	1402	2000
400/20	26.91	0.07104	88850	1286	1500
400/25	26.64	0.07370	95940	1295	1500
400/35	26.82	0.07389	103900	1349	1500
400/50	27.63	0.07232	123400	1511	1500
400/65	28.00	0.07236	135200	1611	1500
400/95	29.14	0.07087	171300	1860	1500
500/35	30.00	0.05812	119500	1642	1500
500/45	30.00	0.05912	128100	1688	1500
500/65	30.96	0.05760	154000	1897	1500
630/45	33.60	0.04633	148700	2060	1200
630/55	35.32	0.04514	164400	2209	1200
630/80	34.82	0.04551	192900	2388	1200
800/55	38.40	0.03547	191500	2690	1000
800/70	38.58	0.03571	207000	2791	1000
800/100	38.98	0.03635	241100	2991	1000

LGJF 型的计算重量, 应在表中规定值中增加防腐原料的重量, 且增值为: 铜芯涂防腐涂料者增加 20%, 内部铝钢各层间涂防腐涂料者增加 5%。  
The calculated weight of LGJF type shall be equal to the value of the normal and the weight of anti-corrosive material, the increase should be added 20% on copper core anti-corrosive paint, added 5% about anti-corrosive material painted the layers of inward Al steel.

多芯屏蔽电子计算机电缆 Q/XYJ0305-99  
Multiple-core shielded cable for electronic computer Q/XYJ0305-99

多芯屏蔽电子计算机电缆 Q/XYJ0305-99  
Multiple-core shielded cable for electronic computer Q/XYJ0305-99

本产品用于交流额定电压 500V 及以下或直流 1000V 及以下的配电装置中，作为电器、仪表、计算机的连接线。  
The product is for AC 500V and below or DC 1000V and below distribution apparatus to work as the connecting wire for electric appliances, instruments and computers.

使用范围 Applicable scope

电缆允许在环境温度为  $-40^{\circ}\text{C}$  ~  $+50^{\circ}\text{C}$  相对湿度不大于 80% 时作固定敷设使用。电缆线芯工作温度不应高于  $65^{\circ}\text{C}$ 。在使用过程中，电缆应防止高温直接辐射或接触。  
The cable can be laid fixedly at ambient temperatures between  $-40^{\circ}\text{C}$  ~  $+50^{\circ}\text{C}$  and relative humidity of 80%. The operating temperature for cable core should not be higher than  $65^{\circ}\text{C}$ . During the operation, the cable should be protected against exposure to direct radiation or contact of high temperature.

技术要求 Technical requirements

屏蔽采用的铜带厚度为 0.10 ~ 0.15mm，编、缠绕铜丝为镀锡、非镀锡，直径为 0.14 ~ 0.16mm。塑铝复合薄膜厚度为 0.04 ~ 0.06mm。屏蔽连接用铜丝的直径为 0.16 ~ 0.21mm。铜带绕包重叠率不小于 15%。

成品电缆导电线芯的直流电阻，换算到标称截面  $1\text{mm}^2$  长度为 1m，温度为  $+20^{\circ}\text{C}$  时，应不大于  $0.0184\ \Omega$ 。

绝缘线芯应能经受交流 50Hz，5000V 试验电压的火花击穿试验，或浸入室温水中 6 小时后，经受交流 50Hz 2000V 电压试验 5min。

成品电缆线芯间及线芯对屏蔽之间的绝缘电阻，在温度为  $+20^{\circ}\text{C}$  时应不小于  $500\text{M}\Omega \cdot \text{km}$ 。各屏蔽二线组的屏蔽之间不短路。

成品电缆芯与芯间，线芯与屏蔽层间应经受 50Hz 2000V 电压试验 5min。

电缆的交货长度应不小于 50m。经双方协议允许任何长度交货。

The shield employs copper strip with thickness between 0.10 ~ 0.15mm. Diameter of braided or wrapped copper wires tinned or not tinned is between 0.14 ~ 0.16mm. Thickness of the plastic-aluminium laminated film is between 0.04 ~ 0.06mm. Thickness of copper wire for connection of shield is between 0.16 ~ 0.21mm. Wrapping overlap ratio of the copper strips should be less than 15%.

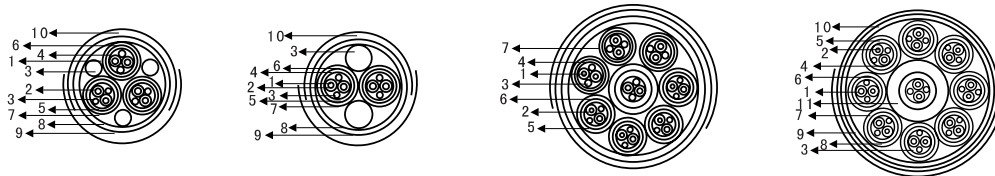
DC resistance of conductor core of finished cable should be less than  $0.0184\ \Omega$  when it is converted to normal cross section of  $1\text{mm}^2$  with length of  $1\text{m}$  at temperature of  $+20^{\circ}\text{C}$ .

The insulation wire core should be capable of withstanding the AC 50Hz 5000V spark-over test or capable of withstanding the AC 50Hz 2000V voltage test for 5 minutes after in the wire of room temperature for 6 hours.

The insulation resistance between the wire cores or the wire core and the shield should be less than  $500\text{M}\Omega \cdot \text{km}$  at temperature of  $+20^{\circ}\text{C}$ .

Between the shields of the two-wire group, short-circuit should not occur.

The finished wire should withstand the 50Hz 2000V voltage test for 5 minutes between the cores or the core and shield. The length of cable for delivery should be longer than 50m, the length can be determined upon requirements.



- |   |   |                                       |                       |
|---|---|---------------------------------------|-----------------------|
| (1) 导电线芯 Core of conductor              | (2) 聚乙烯绝缘 Polyethylene insulation           | (3) 塑料填芯 Plastic filler               | (4) 包带 Wrapping tape  |
| (5) 编织或疏绕铜线 or sparse-wound copper wire | (6) 铜带 Copper strip                         | (7) 包带 Wrapping cloth                 | (8) 包布 Wrapping cloth |
| (9) 聚氯乙烯护套 Polyvinyl chloride sheath    | (10) 双层镀锌钢带 Two-layer galvanized steel band | (11) 聚乙烯内护套 Polyethylene inner sheath |                       |



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**多芯屏蔽电子计算机电缆 Q/XYJ0305-99**

Multiple-core shielded cable for electronic computer Q/XYJ0305-99

**说明 Note**

1.2对(四芯)为红白和兰白二个屏蔽二线组 The two pairs (four cors) are two shielded groups of red-white and blue-white  
 3对(六芯)为红白、兰白、红兰三个屏蔽二组 The three pairs (six cors) are the three shielded two-wire groups of red-white, blue-white, red-white  
 8对(十六芯), 9对(十八芯)中心为红白一个屏蔽二线组外层一个红兰和一个兰白二个屏蔽二线组为标志对。  
 For the eight pairs (sixteen cores) and nine pairs (eighteen cores), one shielded two-wire group of red-white is in the center two shielded two-wire group of red-blue and blue-white on the outer layer are the mark pair, and the left are the shielded two-wire of red-white.  
 其余为红白屏蔽二线组。Others are the two shielded groups of red-white  
 2.本公司还可以生产 P1 型铜丝缠绕屏蔽以及低烟低卤, 低烟无卤计算机电缆。  
 type P1 copper wire wrapped shield and low-halogen or low-smoke non-halogen computer cables are available.

**额定电压35kV及以下交联聚乙烯绝缘环保电力电缆  
 额定电压450/750V及以下电气装备用环保电线电缆**

型号 type	名称 Description	额定电压 rating(kV)	芯数 core number	标称截面 normal area of conductor (mm <sup>2</sup> )	执行标准 Executive standard
ZR-YJE	交联聚乙烯绝缘低烟无卤阻燃聚烯烃护套环保电力电缆	0.6/1 6/10 8.7/15 26/35	1,2,3,4,5,3+1,4+1,3+2 1,3 1,3 1,3	1.5-800 25-300 25-300 50-300	Q/XYJ03.12-2002
ZR-YJE23	交联聚乙烯绝缘钢带铠装低烟无卤阻燃聚烯烃护套环保电力电缆	0.6/1 6/10 8.7/15 26/35	1,2,3,4,5,3+1,4+1,3+2 1,3 1,3 1,3	4-300 25-300 25-300 50-300	Q/XYJ03.12-2002
ZR-YJE33	交联聚乙烯绝缘细钢丝铠装低烟无卤阻燃聚烯烃护套环保电力电缆	0.6/1 6/10 8.7/15 26/35	1,2,3,4,5,3+1,4+1,3+2 1,3 1,3 1,3	4-300 25-300 25-300 50-300	Q/XYJ03.12-2002
ZR-YJE43	交联聚乙烯绝缘粗钢丝铠装低烟无卤阻燃聚烯烃护套环保电力电缆	0.6/1 6/10 8.7/15 26/35		4-300 25-300 25-300 50-300	Q/XYJ03.12-2002
ZR-BE	一般用途单芯硬导体无护套环保电线。	450/750V	1	1-400	Q/XYJ03.13-2002
ZR-FE	一般用途单芯硬导体无护套环保电线。	50/500V	1	1.5-240	Q/XYJ03.13-2002
ZR-NBE	内部布线用导体温度70°C的单芯实心导体无护套环保电缆	300/500V	1	1	Q/XYJ03.13-2002
ZR-NRE	内部布线用导体温度70°C的单芯软导体无护套环保电缆	300/500V	1	1	Q/XYJ03.13-2002
ZR-BEE	轻型护套环保电缆	300/500V	1,2,3,4,5	1-35	Q/XYJ03.13-2002
ZR-BEEB	铜芯有护套扁型环保电缆	300/500V	2,3	1-10	Q/XYJ03.13-2002
ZR-BER	铜芯环保软电缆	450/750V	1	2.5-70	Q/XYJ03.13-2002

## 聚氯乙烯绝缘电线 PVC insulated wires

## 聚氯乙烯绝缘电线 PVC insulated wires

### 一、产品简介 Brief product introduction

本产品适用于交流额定电压450/750V及以下的家用电器、小型电动工具、仪器仪表及动力照明装置电源连接，其型号、名称及使用范围见表1.1。电线的工作温度除BV-90、RV-90为90℃外，其余均为70℃。BV-105型不超过105℃，敷设温度不低于0℃。

This product is suitable for linking the household electrical appliance, small electric tools, instrument and power lighting devices with the rated voltage equal or less than 450/750V AC. The model, name and application area of the product see table 1.1. The operation temperature of the wire wire is 90℃ for BV-90 and RV-90, The other is 90 ℃.BV-105 model not more than 105℃. Installation temperature not lower than 0℃ .

### 二、电线的型号、名称及使用范围 Type, description and main application of the wires

型号 Type	名称 Description	使用范围 Main Application
227IEC01(BV) 227IEC05(BV) 227OEC07(BV-90) 227IEC10(BVV) BLV	铜/铝芯聚氯乙烯绝缘电线 Copper / Aluminum core PVC insulated wires	固定布线 Wire fixed and distribute
BV-105	铜芯耐热105 聚氯乙烯绝缘电线 Copper core heat-resistance 105 PVC insulation	
BVV BLVV	铜/铝芯聚氯乙烯绝缘护套圆形软电线 Copper/Aluminum core PVC insulated sheath flat cylinder soft wires	
BVVB BLVVB	铜/铝芯聚氯乙烯绝缘护套扁形软电线 Copper/Aluminum core PVC insulated sheath flat soft wires	
BVR	铜芯聚氯乙烯绝缘软电线 Copper core PVC insulated soft wires	
227IEC02(RV) 227IEC06(RV) 227IEC08(RV-90)	铜芯聚氯乙烯绝缘软电线 Copper core PVC insulated soft wires	适用于中轻型移动电器、 仪器仪表、家用电器、动力 照明等使用时要求柔软的场所。 Suitable for medium or light type movable electrical appliances in struments, household electric appliances, power lighting etc that need soft areawhen working
227IEC52(RVV)	铜芯聚氯乙烯绝缘护套软电线 Copper core PVC insulation sheathed soft wires	
227IEC53(RVV)	铜芯聚氯乙烯绝缘护套软电线 Copper core PVCinsulation sheathed soft wires	



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型号 Type	名称 Description	使用范围 Main Application
RVP	铜芯聚氯乙烯绝缘屏蔽软电线 Copper-core PVC insulation shield soft wires	适用于额定电压300/300V及以下电器、 仪表、电子设备及自动化装置连接用 Suitable for the connection of electric appliances, instruments, electric equipments and automatic devices with the rated voltage of 300/300V or below
RVVP	铜芯聚氯乙烯绝缘护套屏蔽软电线 Copper-core PVC insulation sheathed, shield soft wires	

### 三、规格尺寸及技术参数 Specification, size and technological data

BV 300/500V

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)
0.5	1/0.80	2.4	8.5	36.0
0.75(A)	1/0.97	2.6	11.1	24.5
0.75(B)	7/0.37	2.8	12.0	24.5
1.0(A)	1/1.13	2.8	13.9	18.1
1.0(B)	7/0.43	3.0	15.0	18.1

BV BLV(BV-105)470/750V

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)		20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)	
			铜 Copper	铝 Aluminium	铝 Aluminium	铜 Copper
1.5(A)	1/1.38	3.3	20.3	-	-	12.1
1.5(B)	7/0.52	3.5	21.6	-	-	12.1
2.5(A)	1/1.78	3.9	31.6	17	11.8	7.41
2.5(B)	7/0.68	4.2	34.8	-	-	7.41
4(A)	1/2.55	4.4	47.1	22	7.39	4.61
4(B)	7/0.85	4.8	50.3	-	-	-
6(A)	7/0.85	4.8	50.3	29	4.91	3.08
6(B)	7/1.04	5.4	71.2	-	-	3.08



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聚氯乙烯绝缘电线  
PVC insulated wires

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)		20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)	
			铜 Copper	铝 Aluminium	铝 Aluminium	铜 Copper
10	7/1.35	7.0	119	62	3.08	1.83
16	7/1.70	8.0	179	78	1.91	1.15
25	27/2.04	10.0	281	118	1.20	0.727
35	27/2.52	11.5	381	156	0.868	0.524
50	19/1.78	13.0	521	215	0.641	0.387
70	19/2.14	15.0	734	282	0.443	0.268
95	19/2.52	17.5	962	385	0.320	0.193
120	37/2.03	19.0	1180	431	0.253	0.153
150	37/2.25	21.0	1470	539	0.206	0.124
185	37/2.52	23.5	1810	666	0.164	0.0991
240	61/2.25	26.5	2350	857	0.125	0.0754
300	61/2.52	29.5	2930	1070	0.100	0.0601
400	61/2.85	33.0	3870	1390	0.0778	0.0470

BVVB, BLVVB300/500V

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构 Structure of cores 芯 × 根数 × 线径 core × Number/ diameter(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )		参考重量 Reference weight (kg/km)		20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)	
		铜 Copper	铝 Aluminium	铜 Copper	铝 Aluminium	铜 Copper	铝 Aluminium
2×0.75	2×1/0.97	-	4.6×7.0	543.7	24.5	-	-
2×1.0	2×1/1.13	-	4.8×7.4	51.0	18.1	-	-
2×1.5	2×1/1.38	-	5.4×8.4	65.9	12.1	-	-
2×2.5	2×1/1.78	6.2×9.8	6.2×9.8	95.7	64.9	7.41	11.8
2×4	2×7/0.85	6.8×11.0	7.2×11.5	146.0	80.7	4.61	7.39
2×6	2×7/1.04	7.4×12.0	8.0×13.0	200.0	104	3.08	4.91
2×10	2×7/1.35	9.6×16.0	9.6×16.0	323.0	177	1.83	3.08
3×0.75	3×1/0.97	-	4.6×9.4	62.6	-	24.50	-
3×1.0	3×1/1.13	-	4.8×9.8	74.3	-	18.10	-
3×1.5	3×1/1.38	-	5.4×11.5	95.6	-	12.10	-
3×2.5	3×1/1.78	6.2×13.5	6.2×13.5	140	93.9	7.41	11.8
3×4	3×7/0.85	7.0×15.0	7.4×16.5	220	123	7.41	7.39
3×6	3×7/1.04	7.4×17.0	8.0×18.0	295	153	4.61	4.91
3×10	3×7/1.35	9.6×22.5	9.6×22.5	485	261	1.83	3.08



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PVC insulated wires

BVV 450/750V

标称截面 Nominal section (mm <sup>2</sup> )	线芯结构 Structure of cores 芯 × 根数 × 线径 Core × Number/diameter(mm)	外径最大值 Maximum value of outer diameter(mm <sup>φ</sup> )	参考重量 Reference weight (kg/km)
1 × 0.75	1 × 1/0.97	4.3	23
1 × 1.0	1 × 1/1.13	4.5	26.4
1 × 1.5(A)	1 × 1/1.38	4.9	34.6
1 × 1.5(B)	1 × 7/0.52	5.2	36.5
1 × 2.5(A)	1 × 1/0.85	5.8	46.4
1 × 4(A)	1 × 1/2.25	6.4	65.9
1 × 4(B)	1 × 7/0.85	6.8	73.7
1 × 6(A)	1 × 1/2.76	7.0	91.6
1 × 10	1 × 7/1.35	8.8	152.0
2 × 1.5(A)	2 × 1/1.38	9.8	109
2 × 1.5(B)	2 × 7/0.52	10.5	123
2 × 2.5(A)	2 × 1/1.78	11.5	157
2 × 2.5(B)	2 × 7/0.68	12.0	172
2 × 4(A)	2 × 1/2.25	12.5	205
2 × 4(B)	2 × 7/0.85	13.0	222
2 × 6(A)	2 × 1/2.76	13.5	265
2 × 6(B)	2 × 7/1.04	14.5	286
2 × 10	2 × 7/1.35	18.0	471
3 × 1.5(A)	3 × 1/1.38	10.5	136
3 × 1.5(B)	3 × 7/0.52	11.0	146
3 × 2.5(A)	3 × 1/1.78	12.0	190
3 × 2.5(B)	3 × 7/0.68	12.5	207
3 × 4(A)	3 × 1/2.25	13.0	252
3 × 4(B)	3 × 7/0.85	14.0	272
3 × 6(A)	3 × 1/2.76	14.5	344
3 × 10	3 × 7/1.35	19.0	574
4 × 1.5(A)	4 × 1/1.38	11.5	164
4 × 1.5(B)	4 × 7/0.52	12.0	174
4 × 2.5(B)	4 × 7/0.85	13.5	252
4 × 4(A)	4 × 1/1.04	14.5	321
4 × 4(B)	4 × 7/2.76	15.5	346
4 × 6(A)	4 × 1/1.04	17.5	470
4 × 6(A)	4 × 7/2.76	16.0	439
4 × 6(B)	4 × 1/1.04	17.5	470
5 × 1.5(A)	5 × 1/1.38	12.0	192
5 × 1.5(B)	5 × 7/0.52	12.5	205
5 × 2.5(A)	5 × 1/1.78	14.0	272
5 × 2.5(B)	5 × 7/0.68	14.5	292
5 × 4(A)	5 × 1/2.25	16.0	379
5 × 4(B)	5 × 7/0.85	17.0	418
5 × 6(A)	5 × 1/2.76	17.5	518
5 × 6(B)	5 × 7/1.04	18.5	550



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PVC insulated wires

**BVR 450/750V**

标称截面 Nominal section (mm <sup>2</sup> )	线芯根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)
2.5	19/0.41	4.2	34.7	7.41
4	19/0.52	4.85	51.4	4.61
6	19/0.64	5.6	73.6	3.08
10	49/0.52	7.6	129	1.83
16	49/0.64	8.8	186	1.15
25	98/0.58	11.0	306	0.727
35	133/0.58	12.5	403	0.524
50	133/0.68	14.5	553	0.387
70	189/0.68	16.5	764	0.268

**RV 300/500V**

标称截面 Nominal section (mm <sup>2</sup> )	线芯根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)
0.3	16/0.15	2.3	6.2	69.2
0.4	23/0.15	2.5	8.0	48.2
0.5	16/0.20	2.6	8.70	39.0
0.75	24/0.20	2.8	12.0	26.0
1	32/0.20	3.0	14.50	19.5
1.5	30/0.25	3.5	20.5	13.3
2.5	49/0.25	4.2	32.5	7.98
4	56/0.30	4.8	52.0	4.95
6	84/0.30	6.4	74.0	3.30
10	84/0.40	8.0	124	1.91
16	126/0.40	9.4	185	1.21
25	196/0.40	11.5	288	0.780
35	276/0.40	13.0	397	0.554
50	396/0.40	15.0	557	0.386
70	360/0.50	17.5	772	0.272

**RVV 300/300V**

标称截面 Nominal section (mm <sup>2</sup> )	线芯根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)
2×0.5	16/0.2	6.2	36.5	39.0
2×0.75	24/0.20	6.6	46.0	26.0
3×0.5	16/0.20	6.6	44	39.0
3×0.75	24/0.20	7.0	56	26.0





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## 聚氯乙烯绝缘电线 PVC insulated wires

RVV 300/500V

标称截面 Nominal section (mm <sup>2</sup> )	线芯根数/线径 Number/diameter of core(mm)	最大外径 Maximum outer diameter(mm <sup>2</sup> )	参考重量 Reference weight (kg/km)	20℃导体电阻 (Ω/km) Conductor resistance at 20℃ (Ω/km)
2×0.75	24/0.20	7.6	57.5	26.0
2×1	32/0.20	7.8	64.5	19.5
2×1.5	30/0.25	8.8	87.0	13.3
2×2.5	49/0.25	11.0	136	7.98
3×0.75	24/0.20	8.0	68.0	26.0
3×1	32/0.20	8.4	78.5	19.5
3×1.5	30/0.25	9.6	109.5	13.3
3×2.5	49/0.25	11.5	170.5	7.98
4×0.75	24/0.20	8.6	83.0	26.0
4×1	32/0.20	9.2	100.0	19.5
4×1.5	30/0.25	11.0	138	13.3
4×2.5	49/0.25	12.5	211	7.98
5×0.75	24/0.20	9.4	104	26.0
5×1	32/0.20	11.0	121	19.5
5×1.5	30/0.25	12.0	173	13.3
5×2.5	49/0.25	14.0	261	7.98

### 四、技术性能 Technology function

1、成品绝缘线和成品电线，放在20±5℃的室温水中至少1h后，能经受规定的交流电压试验。

2、电线具有良好的电气绝缘性能、力学性能和不延性能，质量可靠，方便耐用。

3、成品电线的绝缘或护套表面应有生产厂名、型号、和电压的连续标志。

1、Finished insulation core and finished power line are put into the water at the temperature 20±5℃ for an hour, they should be able to experience the AC voltage testing.

2、Outer power line is good at insulation property, mechanics property and non-inflammability with reliable quality and convenient durability.

3、Finished power line should have products name, model and voltage signs.

试验名称 Testing name	试验项目 Testing item	试验值 Testing value	
		电线额定电压 Rated voltage of wire	
		300/500V	450/750V
成品绝缘线 芯电压试验 Finished insulation wire voltage testing	试验电压 (V) : 按绝缘厚度 Testing voltage: in accordance with insulation thickness	0.6mm 及以下 0.6mm and below	1500
		0.6mm 及以上 Over 0.6mm	2000
	电压施加时间不小于 (min) Voltage bring to bear on time not less than	5	
成品电线 电压试验 Finished product wire voltage testing	试验电压: Testing voltage	2000	
	电压施加时间不小于 (min) Voltage bring to bear on time not less than	5	