

# 铜(铝)芯电缆

COPPER (ALUMINUM) CORE CABLE

## 选型手册

SELECTION MANUAL





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## 一、额定电压 0.6/1kV 及以下铜(铝)芯交联聚乙烯绝缘电力电缆 Rated voltage 0.6/1kV and below copper (aluminum) core crosslinked polyethylene insulated power cable

### 依据标准: Standard

GB / T 12706.1 额定电压 1kV ( $U_m=1.2\text{kV}$ ) 到 35kV ( $U_m=40.5\text{kV}$ ) 挤包绝缘电力电缆及附件

第 1 部分: 额定电压 1kV ( $U_m=1.2\text{kV}$ ) 和 3kV ( $U_m=3.6\text{kV}$ ) 电缆 Rated voltage 1kV ( $U_m=1.2\text{kV}$ ) to 35kV ( $U_m=40.5\text{kV}$ ) extruded insulated power cables and accessories

Part 1: Cables with rated voltages of 1kV ( $U_m=1.2\text{kV}$ ) and 3kV ( $U_m=3.6\text{kV}$ )

### 适用范围: scope of applications

本产品适用于额定电压 0.6/1kV 及以下输配电线路作配送电能之用。This product is suitable for transmission and distribution lines with rated voltage 0.6/1kV and below

### 使用特性: operating characteristics

额定电压  $U_0/U$  为 0.6/1kV The rated voltage  $U_0/U$  is 0.6/1kV

最高系统电压  $U_m$  为 1.2kV The maximum system voltage  $U_m$  is 1.2kV

电缆导体的最高允许工作温度为 90℃ The maximum allowed operating temperature of the conductor is 90℃

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℃ The maximum short-circuit temperature of the conductor shall not exceed 250℃ (5s maximum duration)

电缆敷设时环境温度应不低于 0℃ The ambient temperature should not be lower than 0℃ when the cable is laid

### 型号规格: type and specification

| 型号 type |        | 芯数 Qty of cores       | 名称 Description                                                                                                                                             |
|---------|--------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YJV     | YJLV   | 1、2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated PVC sheathed power cable                                                  |
| YJY     | YJLY   | 1、2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulation polyethylene sheathed power cable                                         |
| YJV62   | YJLV62 | 1                     | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal tape armoured PVC sheathed power cable         |
| YJY63   | YJLY63 | 1                     | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal with armoured polyethylene sheathed power cable |



|       |        |                         |                                                                                                                                                         |
|-------|--------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| YJV22 | YJLV22 | 2、3、4、5、3+1、<br>3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电 缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured PVC sheathed power cable                      |
| YJY23 | YJLY23 | 2、3、4、5、3+1、<br>3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电 缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable              |
| YJV72 | YJLV72 | 1                       | 铜(铝)芯交联聚乙烯绝缘非磁性金属丝铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic wire armoured PVC sheathed power cable            |
| YJY73 | YJLY73 | 1                       | 铜(铝)芯交联聚乙烯绝缘非磁性金属丝铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic wire armoured polyethylene sheathed power cable    |
| YJV32 | YJLV32 | 2、3、4、5、3+1、<br>3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘镀锌钢丝铠装聚氯乙烯护套电力电 缆 Copper (aluminum) core crosslinked polyethylene insulated galvanized steel wire armouring PVC sheathed power cable        |
| YJY33 | YJLY33 | 2、3、4、5、3+1、<br>3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘镀锌钢丝铠装聚乙烯护套电力电 缆 Copper (aluminum) core crosslinked polyethylene insulated galvanized steel wire armoured polyethylene sheathed power cable |

备注: note

可根据用户需求,生产各类阻燃、低烟无卤、耐火及耐寒电力电缆; all kinds of flame-retardant, low-smoke halogen-free, fire-resistant and cold-resistant power cables are available according to requirements.

阻燃电缆可在型号中加阻燃特性符号,如 Z, ZC, ZB, ZA; Flame retardant cable model has characteristic symbol, such as Z, ZC, ZB, ZA;

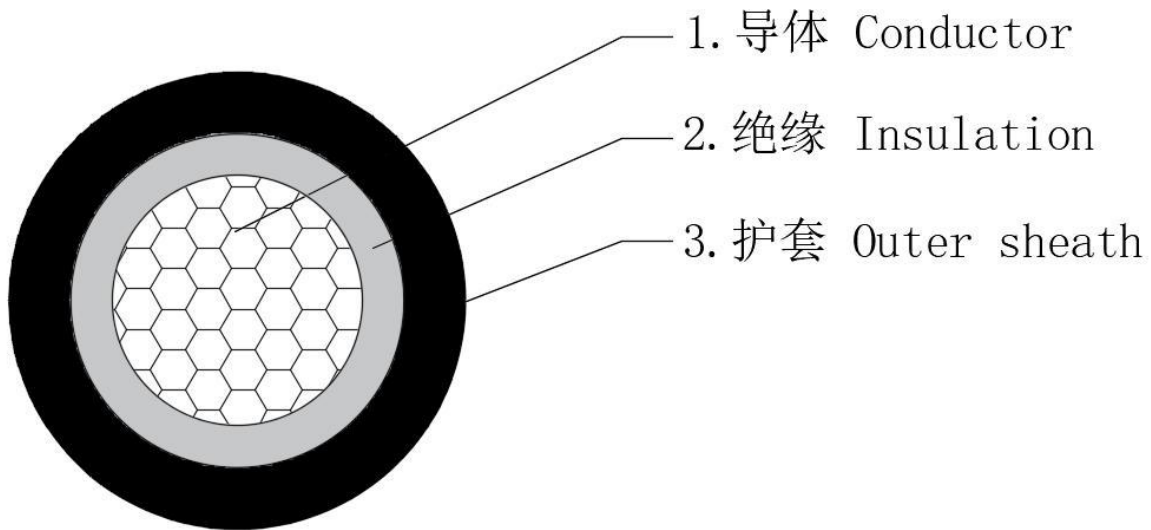
低烟无卤可在型号中加无卤低烟特性符号,如 WD; Low-smoke halogen-free model has characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号,如 HD。Cold resistance cable model has characteristic symbol, such as HD.

耐火电缆可在型号中加耐火特性符号,如 N。Fire resistant cable model has characteristic symbol, such as N.

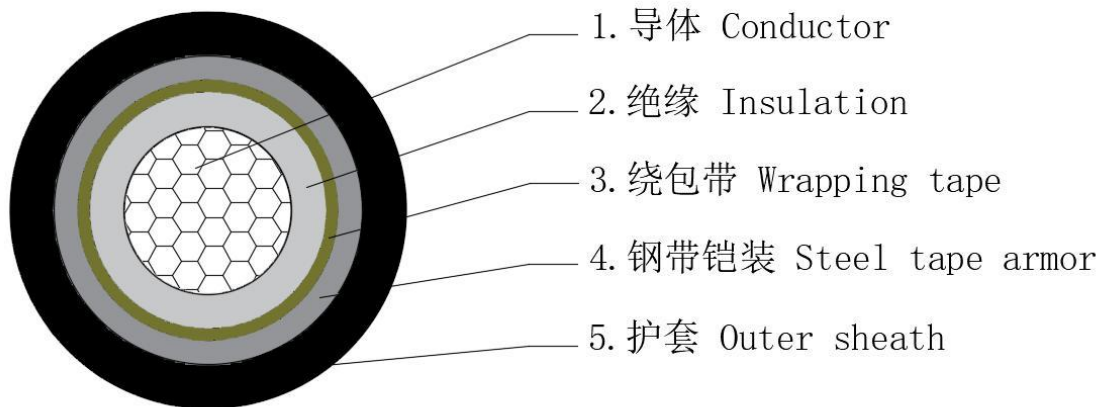


结构示意图: structural drawing



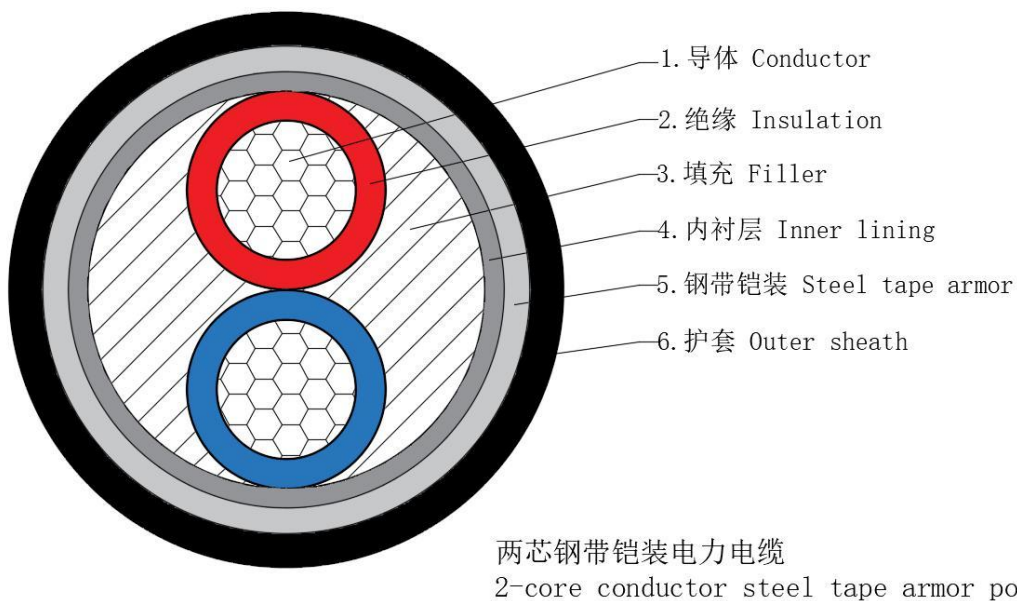
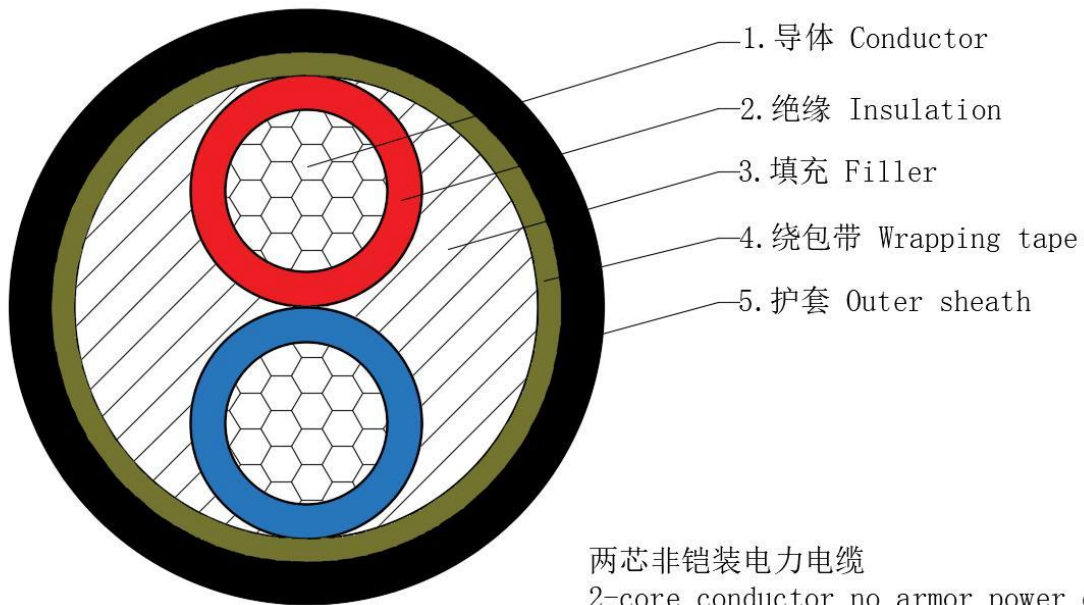
单芯非铠装电力电缆

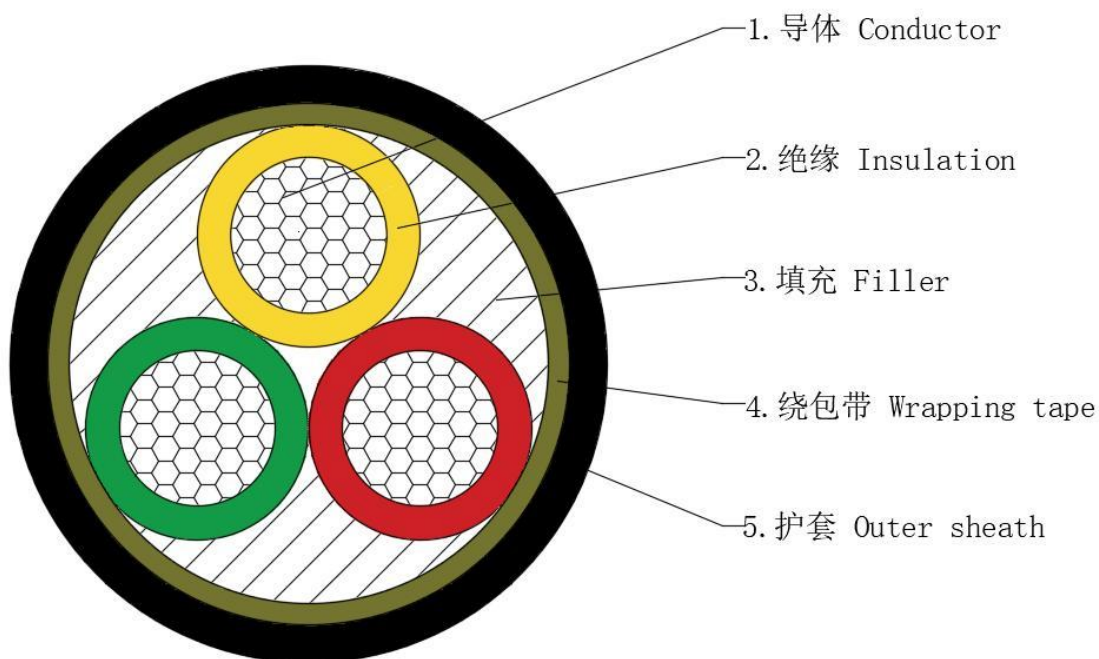
1-core conductor no armor power cable



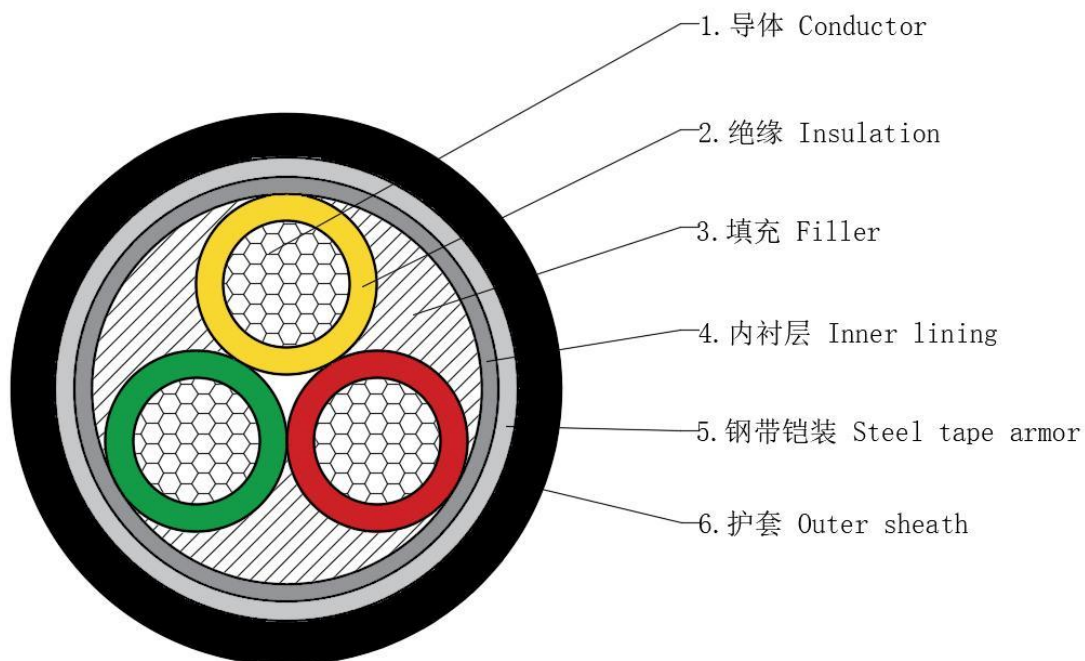
单芯钢带铠装电力电缆

1-core conductor steel tape armor power cable

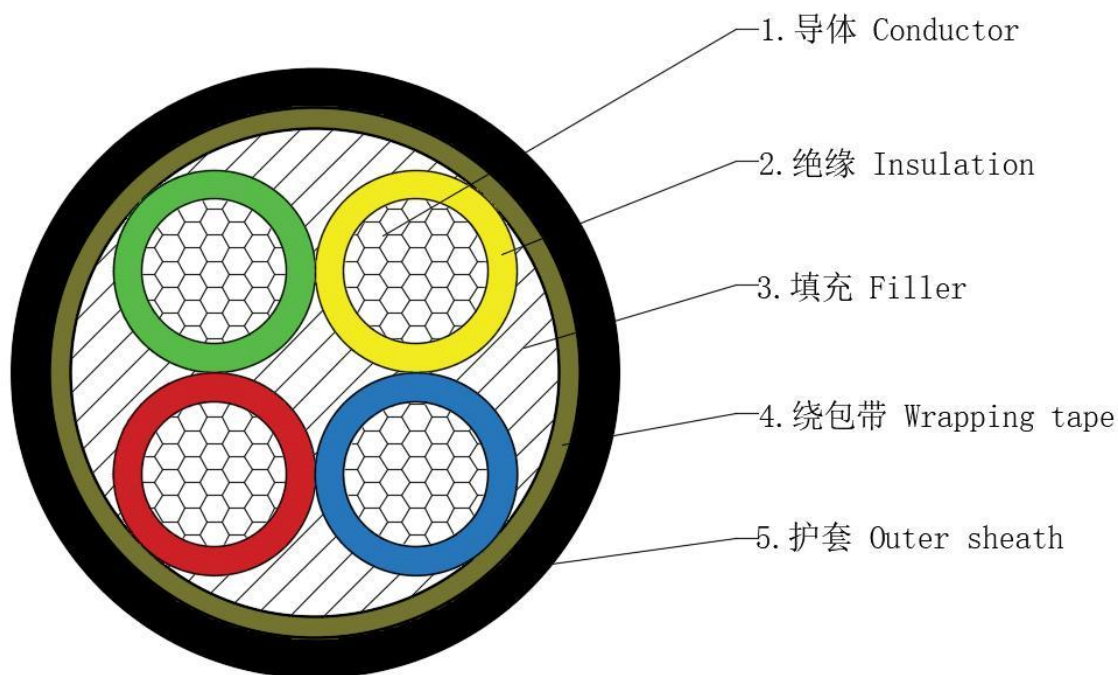




三芯非铠装电力电缆  
3-core conductor no armor power cable

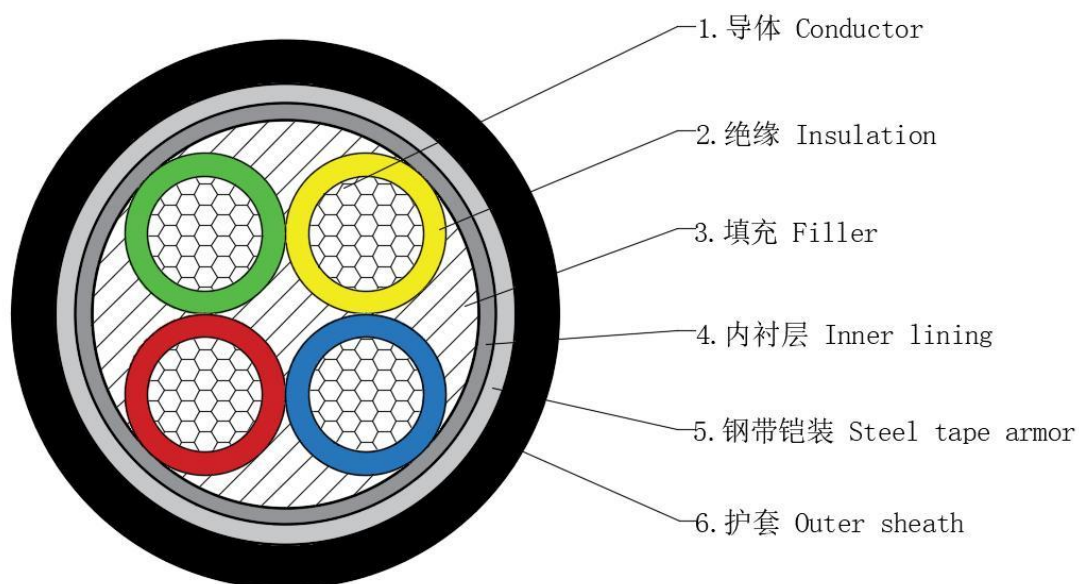


三芯钢带铠装电力电缆  
3-core conductor steel tape armor power cable



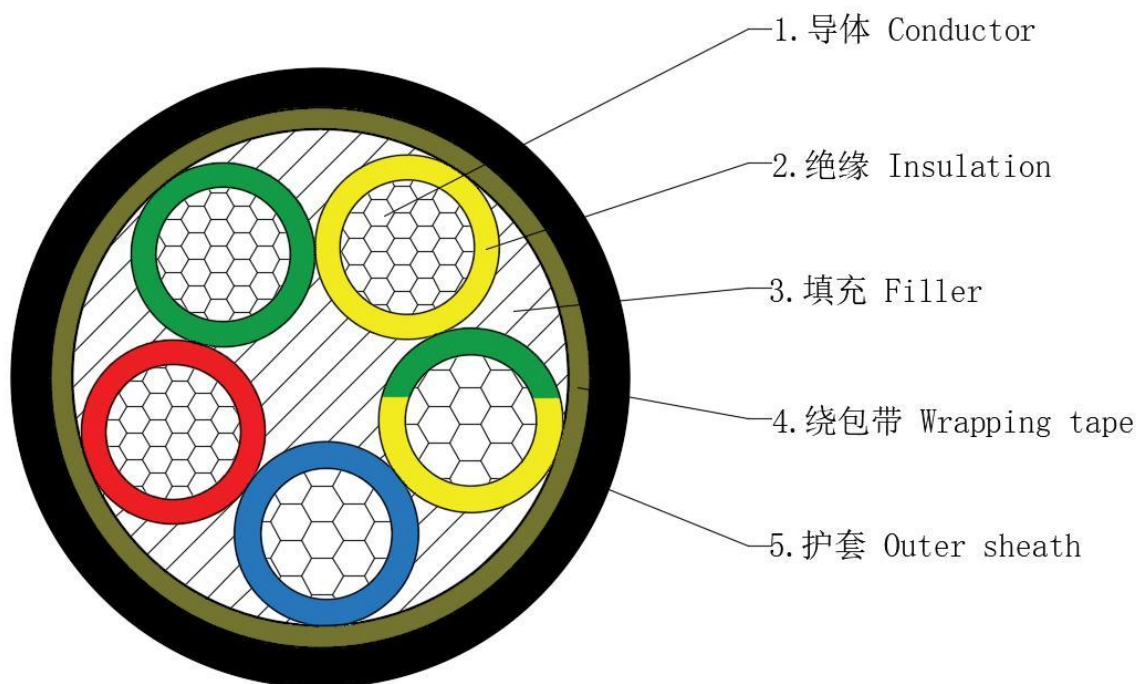
4芯非铠装电力电缆

4-core conductor no armor power cable

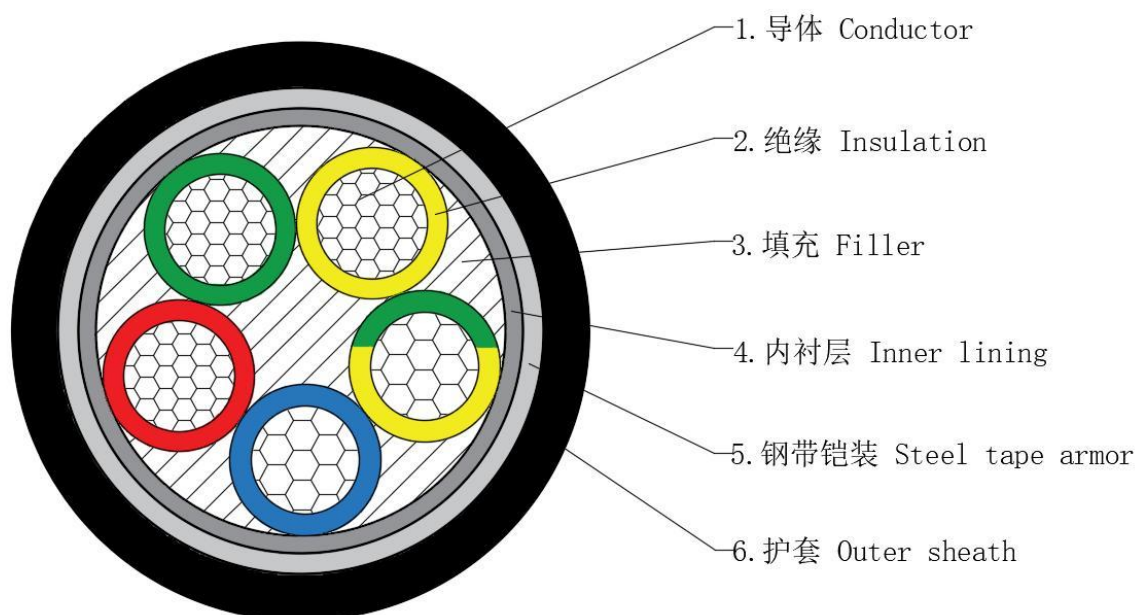


4芯钢带铠装电力电缆

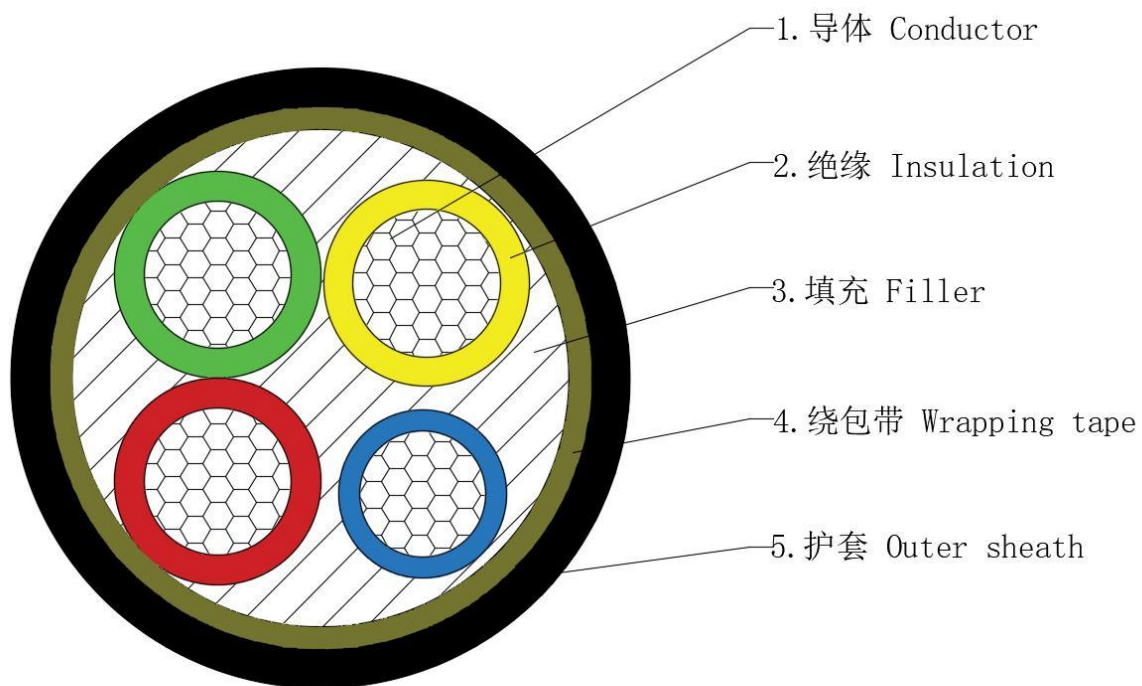
4-core conductor steel tape armor power cable



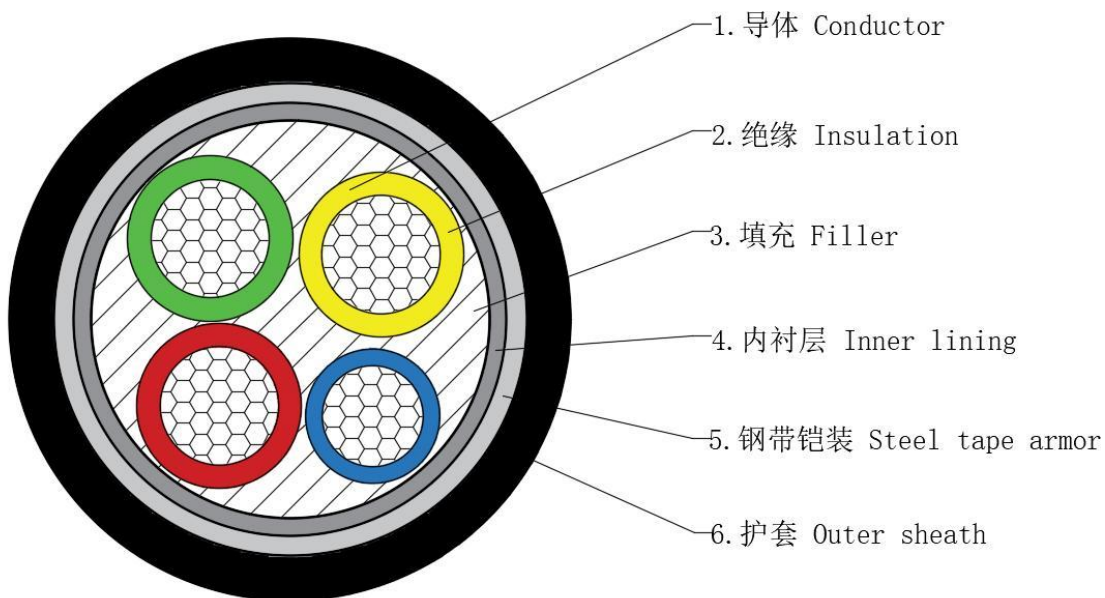
5芯非铠装电力电缆  
5-core conductor no armor power cable



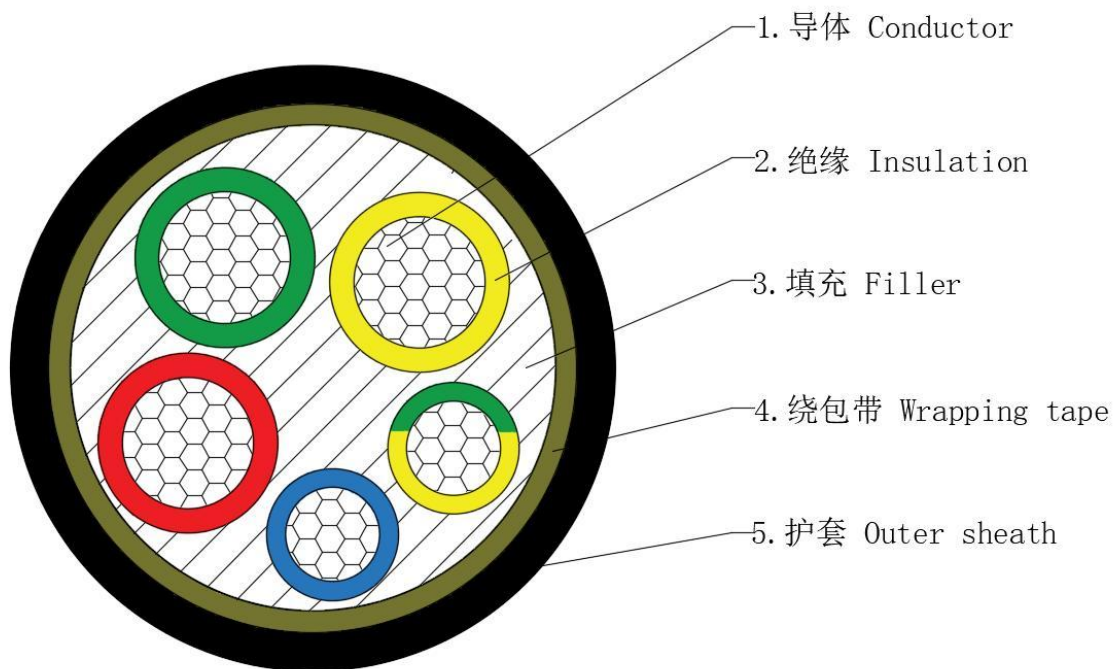
5芯钢带铠装电力电缆  
5-core conductor steel tape armor power cable



3+1芯非铠装电力电缆  
3+1-core conductor no armor power cable

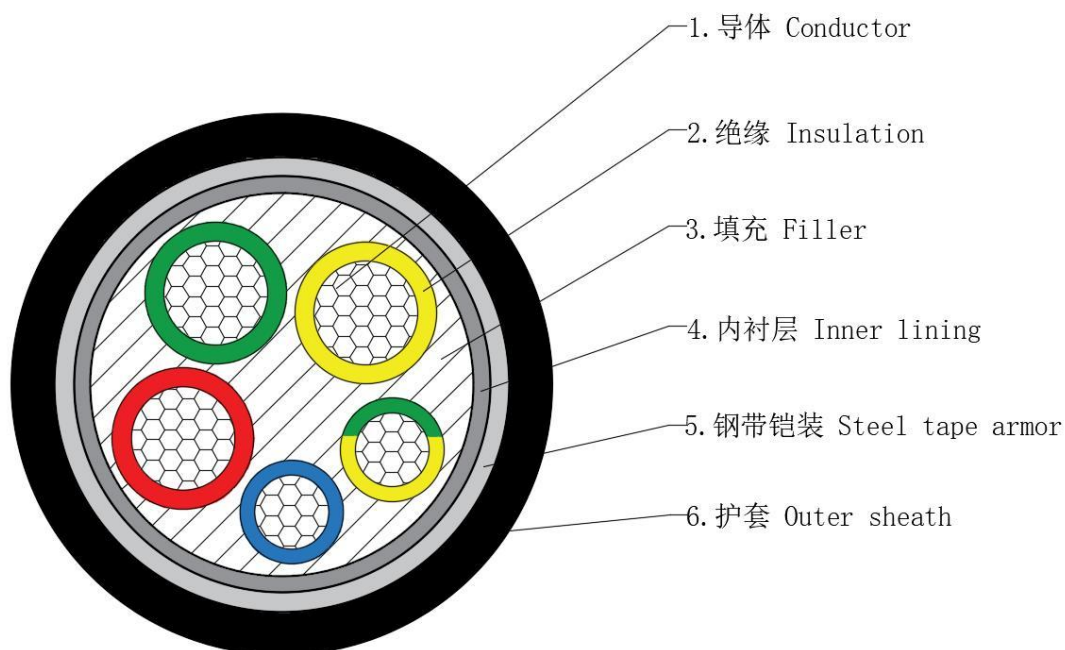


3+1芯钢带铠装电力电缆  
3+1-core conductor steel tape armor power cable



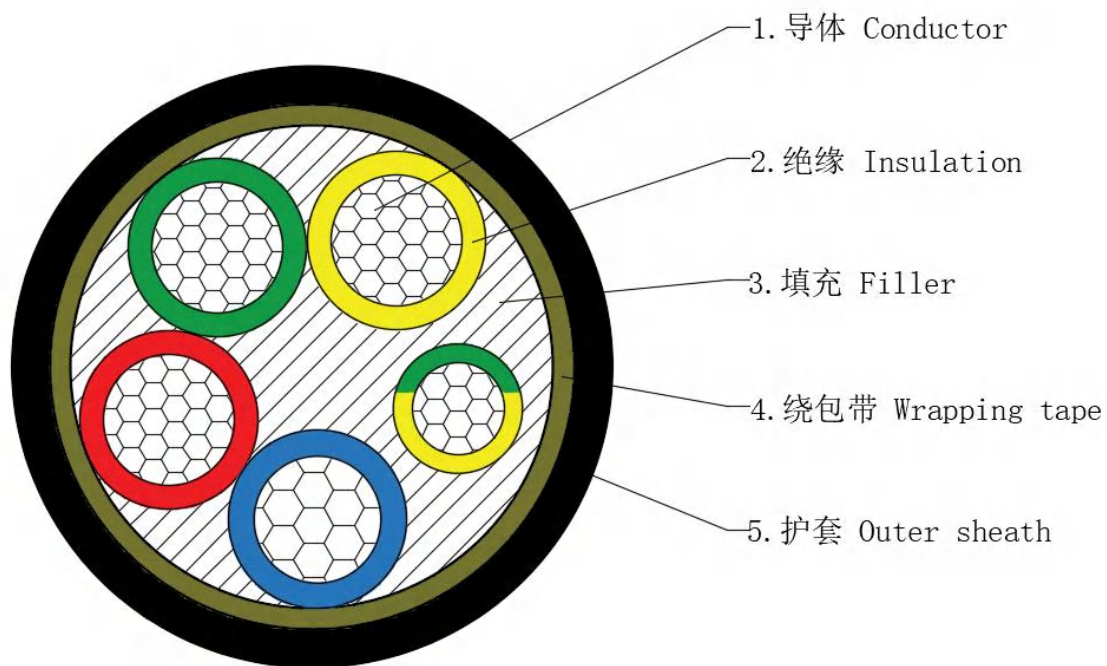
3+2芯非铠装电力电缆

3+2-core conductor no armor power cable



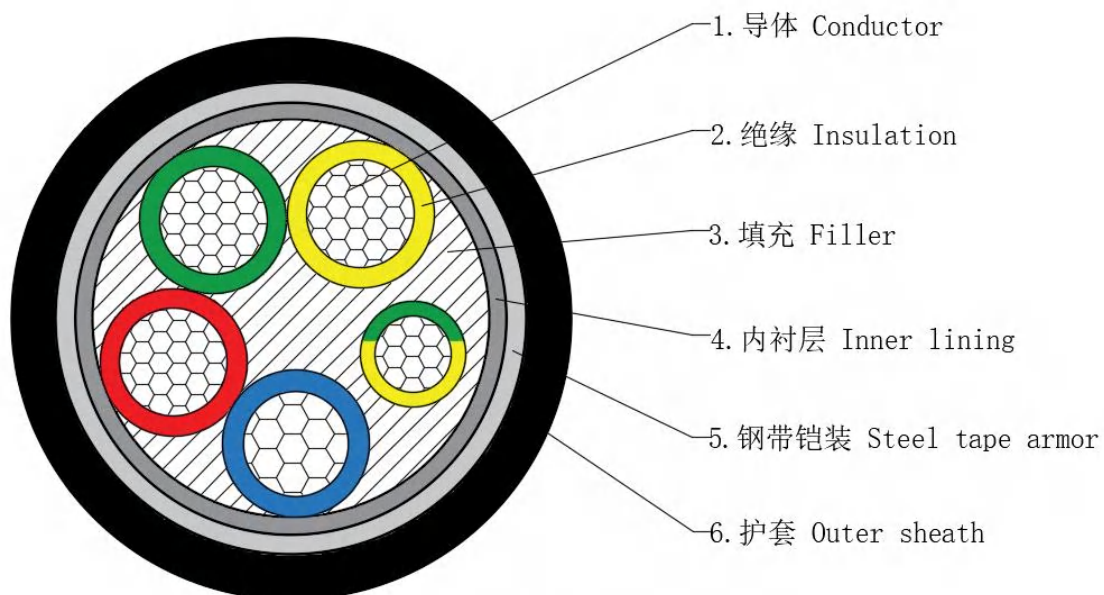
3+2芯钢带铠装电力电缆

3+2-core conductor steel tape armor power cable



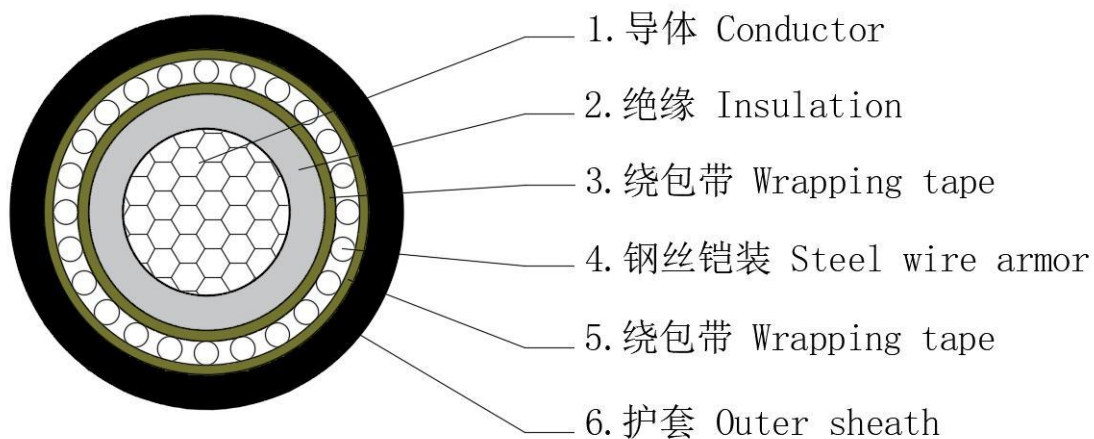
4+1芯非铠装电力电缆

4+1-core conductor no armor power cable



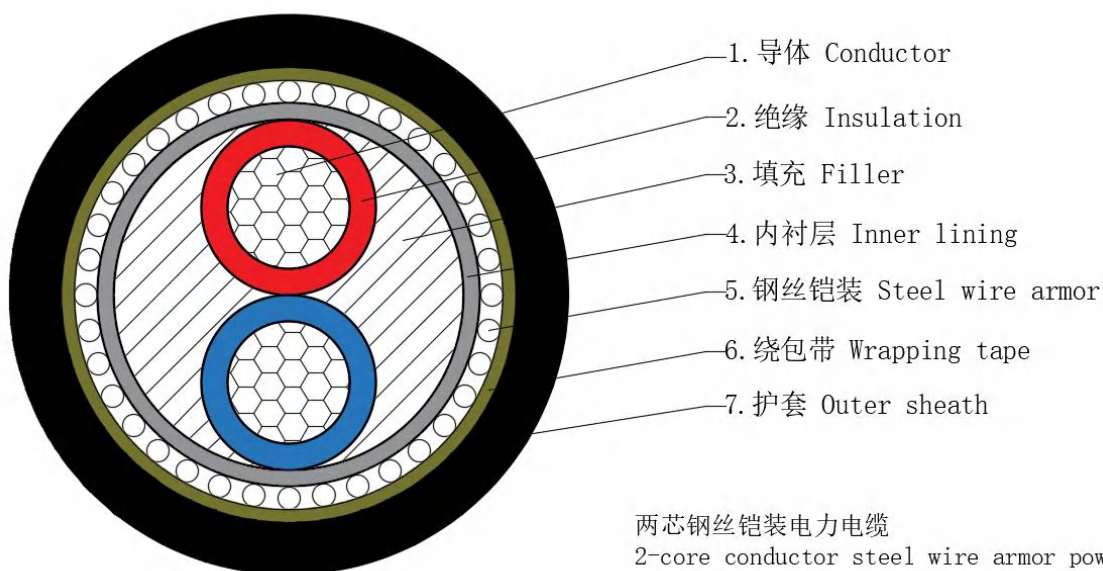
4+1芯钢带铠装电力电缆

4+1-core conductor steel tape armor power cable



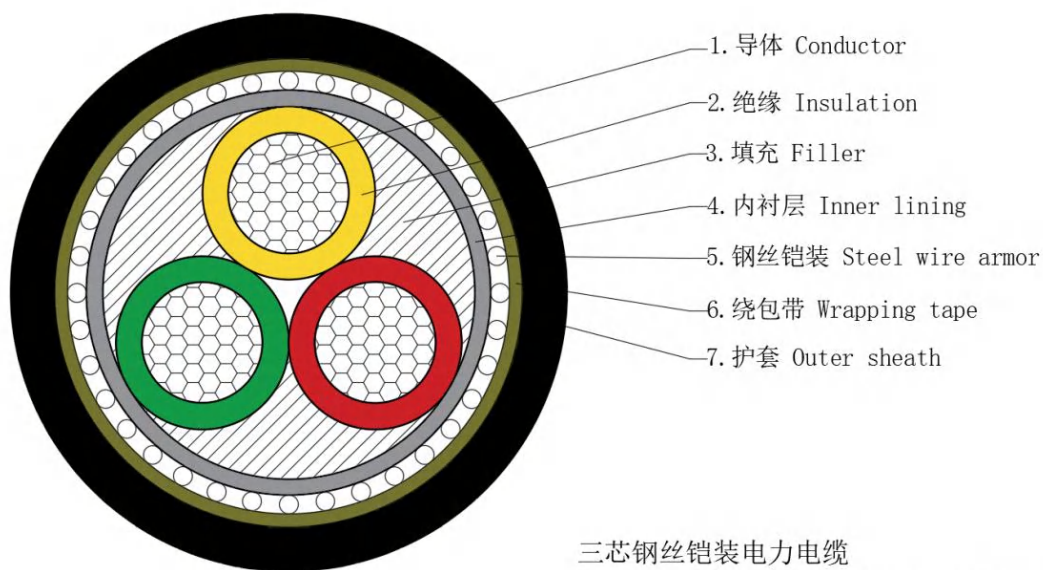
单芯钢丝铠装电力电缆

1-core conductor steel wire armor power cable

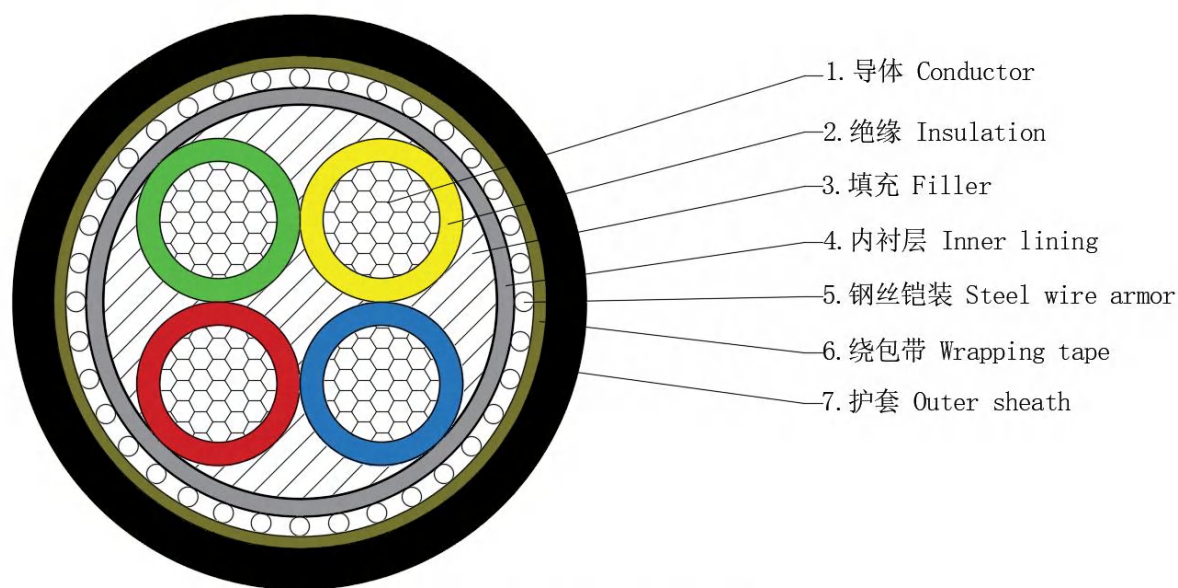


两芯钢丝铠装电力电缆

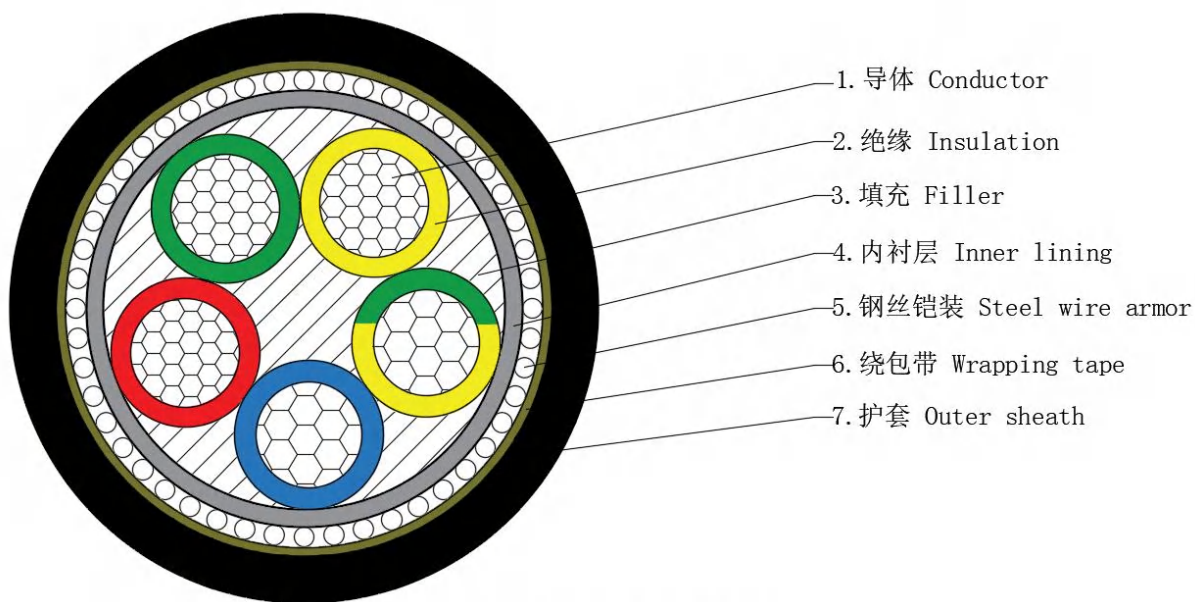
2-core conductor steel wire armor power cable



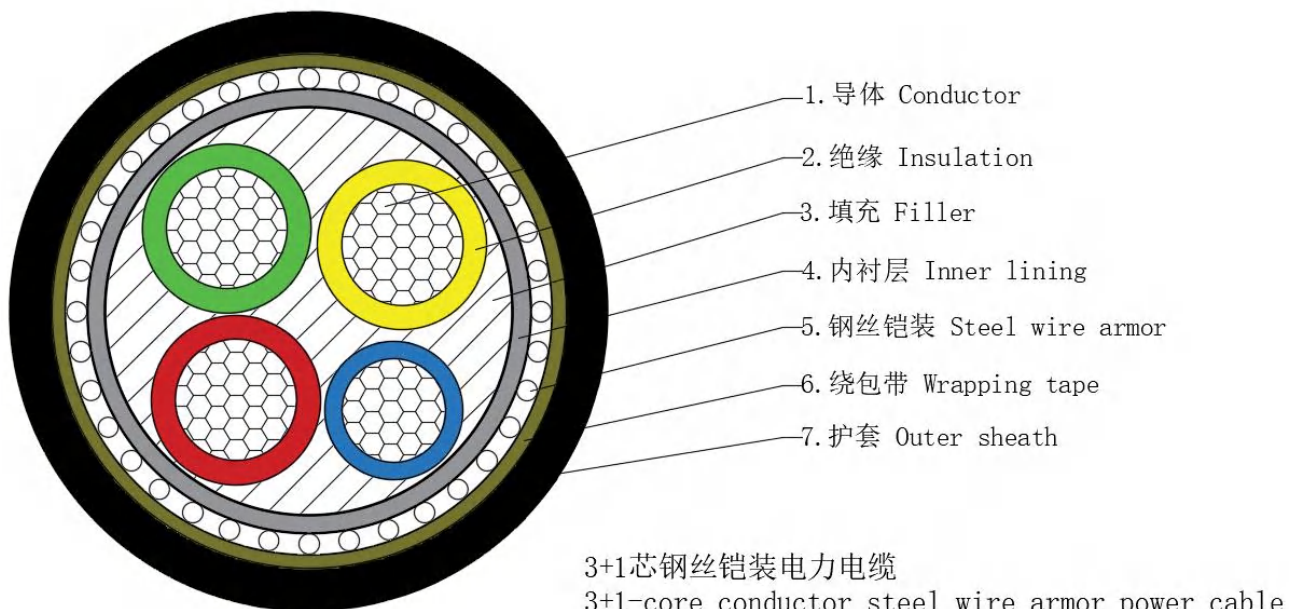
三芯钢丝铠装电力电缆  
3-core conductor steel wire armor power cable

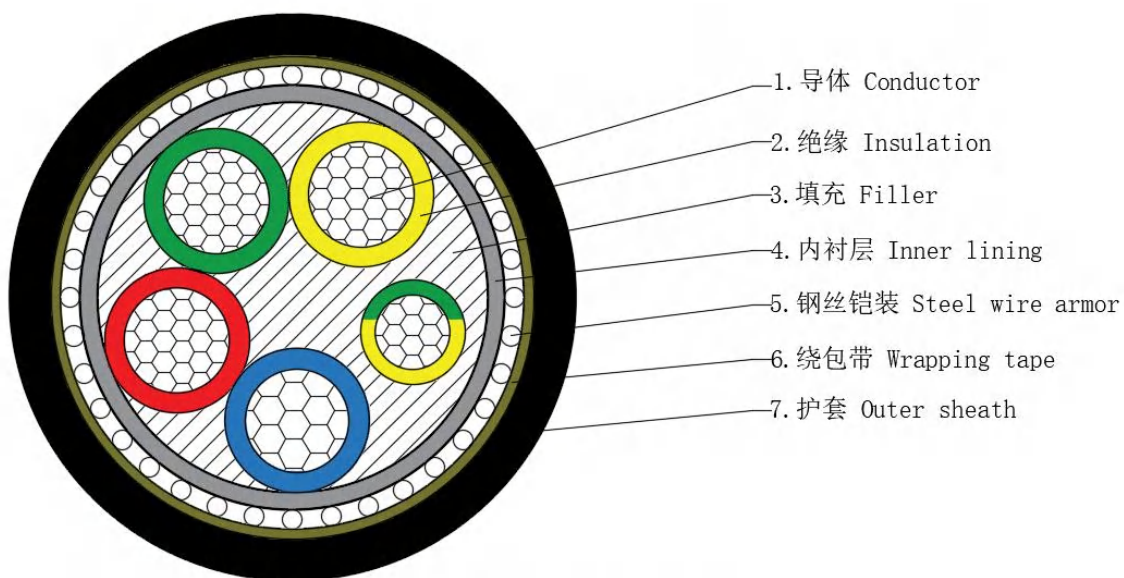
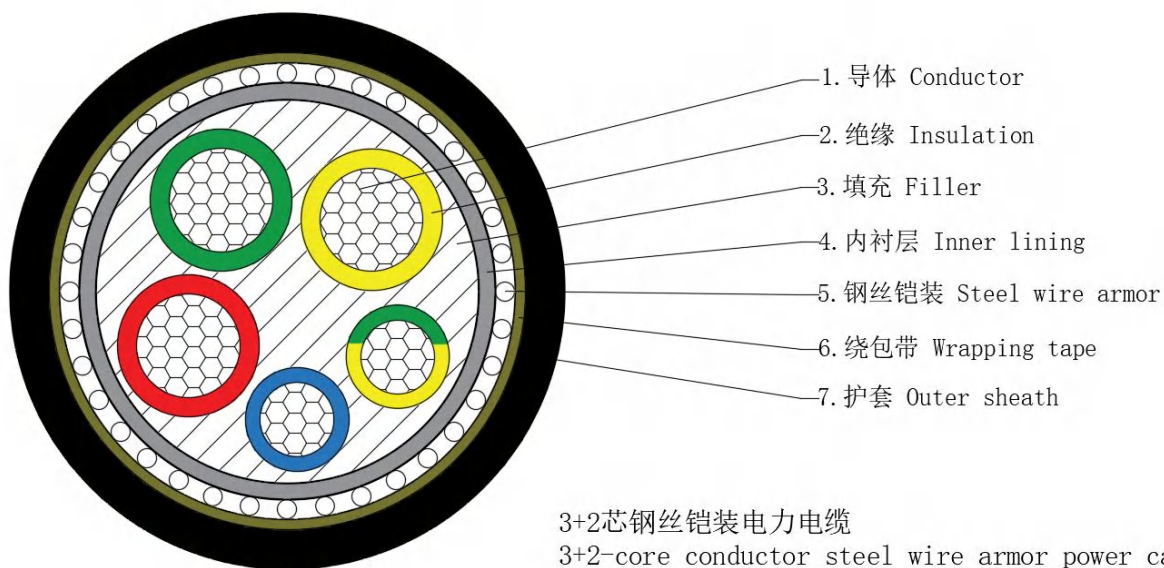


4芯钢丝铠装电力电缆  
4-core conductor steel wire armor power cable



5芯钢丝铠装电力电缆  
5-core conductor steel wire armor power cable







导体最大直流/交流电阻: Maximum DC/AC resistance of conductor

| 导体标称截面<br>Nominal cross<br>section of<br>conductor mm <sup>2</sup> | 20℃最大直流电阻 20℃ Maximum dc<br>resistance<br>Ω /km |             | 90℃最大交流电阻 90℃ Maximum ac<br>resistance<br>Ω /km |             |
|--------------------------------------------------------------------|-------------------------------------------------|-------------|-------------------------------------------------|-------------|
|                                                                    | 铜 copper                                        | 铝 aluminium | 铜 copper                                        | 铝 aluminium |
| 1.5                                                                | 12.1                                            | /           | 15.4                                            | /           |
| 2.5                                                                | 7.41                                            | /           | 9.44                                            | /           |
| 4                                                                  | 4.61                                            | /           | 5.87                                            | /           |
| 6                                                                  | 3.08                                            | /           | 3.92                                            | /           |
| 10                                                                 | 1.83                                            | 3.08        | 2.33                                            | 3.9487      |
| 16                                                                 | 1.15                                            | 1.91        | 1.46                                            | 2.4487      |
| 25                                                                 | 0.727                                           | 1.2         | 0.927                                           | 1.5385      |
| 35                                                                 | 0.524                                           | 0.868       | 0.668                                           | 1.1130      |
| 50                                                                 | 0.387                                           | 0.641       | 0.493                                           | 0.8220      |
| 70                                                                 | 0.268                                           | 0.443       | 0.342                                           | 0.5681      |
| 95                                                                 | 0.193                                           | 0.32        | 0.246                                           | 0.4105      |
| 120                                                                | 0.153                                           | 0.253       | 0.195                                           | 0.3247      |
| 150                                                                | 0.124                                           | 0.206       | 0.158                                           | 0.2645      |
| 185                                                                | 0.0991                                          | 0.164       | 0.1272                                          | 0.2108      |
| 240                                                                | 0.0754                                          | 0.125       | 0.0972                                          | 0.1609      |
| 300                                                                | 0.0601                                          | 0.100       | 0.0780                                          | 0.1290      |
| 400                                                                | 0.047                                           | 0.0778      | 0.061                                           | 0.1010      |
| 500                                                                | 0.0366                                          | 0.0605      | 0.0489                                          | 0.0789      |
| 630                                                                | 0.0283                                          | 0.0469      | 0.0389                                          | 0.0619      |



### 绝缘标称厚度: Nominal insulation thickness

|                                                  |     |     |     |     |     |     |     |     |     |
|--------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 1.5 | 2.5 | 4   | 6   | 10  | 16  | 25  | 35  | 50  |
| 标称厚度<br>nominal thickness<br>mm                  | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 0.9 | 1.0 |
| 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 70  | 95  | 120 | 150 | 185 | 240 | 300 | 400 | 500 |
| 标称厚度<br>nominal thickness<br>mm                  | 1.1 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.8 | 2.0 | 2.2 |

### 交流耐压试验: AC voltage withstand test

成品电缆经受交流 50Hz、3500V/5min 的电压试验不击穿, 对单芯非铠装电缆, 进行浸水耐压试验。

The finished cable tested by AC 50Hz, 3500V/5min voltage without breakdown, and for single-core non-armoured cables, the submersible voltage test is carried out.

### 产品结构尺寸 (仅供参考): Product structure size (for reference only)

#### 导体外径: Conductor stranding OD

|                                                                   |      |      |      |      |     |     |     |     |     |
|-------------------------------------------------------------------|------|------|------|------|-----|-----|-----|-----|-----|
| 标称截面<br>nominal cross section<br>mm <sup>2</sup>                  | 1.5  | 2.5  | 4    | 6    | 10  | 16  | 25  | 35  | 50  |
| 铜导体近似外径<br>Approximate outer diameter of copper conductor<br>mm   | 1.36 | 1.74 | 2.21 | 2.71 | 3.9 | 4.8 | 6.0 | 6.9 | 8.1 |
| 铝导体近似外径<br>Approximate outer diameter of aluminum conductor<br>mm | /    | /    | /    | /    | 3.9 | 4.8 | 6.0 | 6.9 | 8.1 |
| 标称截面<br>nominal cross section<br>mm <sup>2</sup>                  | 70   | 95   | 120  | 150  | 185 | 240 | 300 | 400 | 500 |



|                                                                            |     |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------|-----|------|------|------|------|------|------|------|------|
| 铜导体近似外径<br>Approximate<br>outer diameter<br>of copper<br>conductor<br>mm   | 9.2 | 10.8 | 12.2 | 13.5 | 15.1 | 17.4 | 19.4 | 21.9 | 26.4 |
| 铝导体近似外径<br>Approximate<br>outer diameter<br>of aluminum<br>conductor<br>mm | 9.7 | 11.4 | 12.1 | 13.3 | 15.0 | 17.2 | 19.2 | 21.8 | 26.4 |

| 芯数 qty<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |      |
|--------------------|--------------------------------------------------------|---------------------------------------------------|--------------------------------------------|-----------------------------------------------|------|
|                    |                                                        |                                                   |                                            | YJV                                           | YJLV |
| 1                  | 1.5                                                    | 1.4                                               | 5.2                                        | 40                                            | /    |
| 1                  | 2.5                                                    | 1.4                                               | 5.6                                        | 52                                            | /    |
| 1                  | 4                                                      | 1.4                                               | 6.1                                        | 68                                            | /    |
| 1                  | 6                                                      | 1.4                                               | 6.6                                        | 90                                            | /    |
| 1                  | 10                                                     | 1.4                                               | 7.7                                        | 133                                           | 74   |
| 1                  | 16                                                     | 1.4                                               | 8.7                                        | 195                                           | 98   |
| 1                  | 25                                                     | 1.4                                               | 10.1                                       | 283                                           | 136  |
| 1                  | 35                                                     | 1.4                                               | 11.1                                       | 380                                           | 170  |
| 1                  | 50                                                     | 1.4                                               | 12.4                                       | 494                                           | 219  |
| 1                  | 70                                                     | 1.4                                               | 14.1                                       | 695                                           | 295  |
| 1                  | 95                                                     | 1.5                                               | 16.0                                       | 945                                           | 385  |
| 1                  | 120                                                    | 1.5                                               | 17.6                                       | 1169                                          | 475  |
| 1                  | 150                                                    | 1.6                                               | 19.6                                       | 1441                                          | 577  |
| 1                  | 185                                                    | 1.6                                               | 21.7                                       | 1809                                          | 719  |
| 1                  | 240                                                    | 1.7                                               | 24.3                                       | 2344                                          | 915  |
| 1                  | 300                                                    | 1.8                                               | 26.6                                       | 2917                                          | 1110 |
| 1                  | 400                                                    | 1.9                                               | 29.7                                       | 3692                                          | 1411 |
| 1                  | 500                                                    | 2.0                                               | 34.4                                       | 4793                                          | 1775 |
| 2                  | 1.5                                                    | 1.8                                               | 9.3                                        | 101                                           | /    |
| 2                  | 2.5                                                    | 1.8                                               | 10.1                                       | 127                                           | /    |
| 2                  | 4                                                      | 1.8                                               | 11.0                                       | 165                                           | /    |
| 2                  | 6                                                      | 1.8                                               | 12.0                                       | 212                                           | /    |
| 2                  | 10                                                     | 1.8                                               | 14.2                                       | 313                                           | 191  |
| 2                  | 16                                                     | 1.8                                               | 16.2                                       | 450                                           | 254  |
| 2                  | 25                                                     | 1.8                                               | 19.1                                       | 648                                           | 353  |



| 芯数 qty<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |      |
|--------------------|--------------------------------------------------------|---------------------------------------------------|--------------------------------------------|-----------------------------------------------|------|
|                    |                                                        |                                                   |                                            | YJV                                           | YJLV |
| 2                  | 35                                                     | 1.8                                               | 21.1                                       | 859                                           | 425  |
| 2                  | 50                                                     | 1.8                                               | 23.7                                       | 1113                                          | 548  |
| 2                  | 70                                                     | 1.8                                               | 27.1                                       | 1553                                          | 696  |
| 2                  | 95                                                     | 1.9                                               | 30.7                                       | 2094                                          | 914  |
| 2                  | 120                                                    | 2.0                                               | 34.0                                       | 2600                                          | 1129 |
| 2                  | 150                                                    | 2.2                                               | 38.0                                       | 3216                                          | 1373 |
| 2                  | 185                                                    | 2.3                                               | 42.4                                       | 4045                                          | 1714 |
| 2                  | 240                                                    | 2.5                                               | 47.6                                       | 5229                                          | 2177 |
| 2                  | 300                                                    | 2.6                                               | 52.2                                       | 6473                                          | 2623 |
| 2                  | 400                                                    | 3.1                                               | 58.5                                       | 8210                                          | 3556 |
| 2                  | 500                                                    | 3.1                                               | 67.9                                       | 10648                                         | 4626 |
| 3                  | 1.5                                                    | 1.8                                               | 9.8                                        | 121                                           | /    |
| 3                  | 2.5                                                    | 1.8                                               | 10.6                                       | 157                                           | /    |
| 3                  | 4                                                      | 1.8                                               | 11.6                                       | 209                                           | /    |
| 3                  | 6                                                      | 1.8                                               | 12.7                                       | 275                                           | /    |
| 3                  | 10                                                     | 1.8                                               | 15.1                                       | 412                                           | 229  |
| 3                  | 16                                                     | 1.8                                               | 17.2                                       | 606                                           | 308  |
| 3                  | 25                                                     | 1.8                                               | 20.3                                       | 883                                           | 438  |
| 3                  | 35                                                     | 1.8                                               | 22.5                                       | 1185                                          | 536  |
| 3                  | 50                                                     | 1.8                                               | 25.3                                       | 1545                                          | 695  |
| 3                  | 70                                                     | 1.9                                               | 29.2                                       | 2186                                          | 926  |
| 3                  | 95                                                     | 2.0                                               | 33.0                                       | 2959                                          | 1218 |
| 3                  | 120                                                    | 2.1                                               | 36.6                                       | 3681                                          | 1513 |
| 3                  | 150                                                    | 2.3                                               | 40.9                                       | 4550                                          | 1843 |
| 3                  | 185                                                    | 2.4                                               | 45.6                                       | 5728                                          | 2304 |
| 3                  | 240                                                    | 2.6                                               | 51.2                                       | 7420                                          | 2941 |
| 3                  | 300                                                    | 2.7                                               | 56.1                                       | 9211                                          | 3568 |
| 3                  | 400                                                    | 3.0                                               | 62.9                                       | 11691                                         | 4710 |
| 3                  | 500                                                    | 3.2                                               | 73.0                                       | 15202                                         | 6114 |
| 4                  | 1.5                                                    | 1.8                                               | 10.5                                       | 145                                           | /    |
| 4                  | 2.5                                                    | 1.8                                               | 11.5                                       | 190                                           | /    |
| 4                  | 4                                                      | 1.8                                               | 12.6                                       | 258                                           | /    |
| 4                  | 6                                                      | 1.8                                               | 13.8                                       | 344                                           | /    |
| 4                  | 10                                                     | 1.8                                               | 16.4                                       | 522                                           | 282  |
| 4                  | 16                                                     | 1.8                                               | 18.9                                       | 776                                           | 380  |
| 4                  | 25                                                     | 1.8                                               | 22.3                                       | 1136                                          | 540  |
| 4                  | 35                                                     | 1.8                                               | 24.7                                       | 1533                                          | 669  |



| 芯数 qty<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |      |
|--------------------|--------------------------------------------------------|---------------------------------------------------|--------------------------------------------|-----------------------------------------------|------|
|                    |                                                        |                                                   |                                            | YJV                                           | YJLV |
| 4                  | 50                                                     | 1.8                                               | 27.9                                       | 2005                                          | 882  |
| 4                  | 70                                                     | 2.0                                               | 32.4                                       | 2857                                          | 1188 |
| 4                  | 95                                                     | 2.1                                               | 36.7                                       | 3877                                          | 1567 |
| 4                  | 120                                                    | 2.3                                               | 40.9                                       | 4840                                          | 1950 |
| 4                  | 150                                                    | 2.4                                               | 45.4                                       | 5960                                          | 2383 |
| 4                  | 185                                                    | 2.6                                               | 50.9                                       | 7531                                          | 2979 |
| 4                  | 240                                                    | 2.8                                               | 57.1                                       | 9756                                          | 3814 |
| 4                  | 300                                                    | 3.0                                               | 62.8                                       | 12141                                         | 4633 |
| 4                  | 400                                                    | 3.3                                               | 70.4                                       | 15411                                         | 6103 |
| 4                  | 500                                                    | 3.5                                               | 81.6                                       | 20031                                         | 7914 |
| 5                  | 1.5                                                    | 1.8                                               | 11.3                                       | 171                                           | /    |
| 5                  | 2.5                                                    | 1.8                                               | 12.4                                       | 226                                           | /    |
| 5                  | 4                                                      | 1.8                                               | 13.6                                       | 309                                           | /    |
| 5                  | 6                                                      | 1.8                                               | 15.0                                       | 415                                           | /    |
| 5                  | 10                                                     | 1.8                                               | 17.9                                       | 635                                           | 333  |
| 5                  | 16                                                     | 1.8                                               | 20.6                                       | 950                                           | 458  |
| 5                  | 25                                                     | 1.8                                               | 24.5                                       | 1396                                          | 643  |
| 5                  | 35                                                     | 1.8                                               | 27.2                                       | 1890                                          | 818  |
| 5                  | 50                                                     | 1.9                                               | 30.8                                       | 2489                                          | 1063 |
| 5                  | 70                                                     | 2.1                                               | 35.8                                       | 3548                                          | 1472 |
| 5                  | 95                                                     | 2.2                                               | 40.6                                       | 4815                                          | 1942 |
| 5                  | 120                                                    | 2.4                                               | 45.2                                       | 6010                                          | 2420 |
| 5                  | 150                                                    | 2.6                                               | 50.5                                       | 7426                                          | 2957 |
| 5                  | 185                                                    | 2.7                                               | 56.6                                       | 9380                                          | 3714 |
| 5                  | 240                                                    | 3.0                                               | 63.4                                       | 12151                                         | 4754 |
| 5                  | 300                                                    | 3.2                                               | 69.7                                       | 15121                                         | 5780 |
| 5                  | 400                                                    | 3.5                                               | 78.1                                       | 19191                                         | 7556 |
| 5                  | 500                                                    | 3.8                                               | 90.8                                       | 24977                                         | 9831 |
| 3+1                | 4/2.5                                                  | 1.8                                               | 12.3                                       | 241                                           | /    |
| 3+1                | 6/4                                                    | 1.8                                               | 13.5                                       | 322                                           | /    |
| 3+1                | 10/6                                                   | 1.8                                               | 15.8                                       | 477                                           | /    |
| 3+1                | 16/10                                                  | 1.8                                               | 18.3                                       | 712                                           | 358  |
| 3+1                | 25/16                                                  | 1.8                                               | 21.4                                       | 1045                                          | 501  |
| 3+1                | 35/16                                                  | 1.8                                               | 23.3                                       | 1342                                          | 600  |
| 3+1                | 50/25                                                  | 1.8                                               | 26.5                                       | 1785                                          | 793  |
| 3+1                | 70/35                                                  | 1.9                                               | 30.4                                       | 2516                                          | 1080 |
| 3+1                | 95/50                                                  | 2.1                                               | 34.6                                       | 3413                                          | 1397 |



| 芯数 qty<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |      |
|--------------------|--------------------------------------------------------|---------------------------------------------------|--------------------------------------------|-----------------------------------------------|------|
|                    |                                                        |                                                   |                                            | YJV                                           | YJLV |
| 3+1                | 120/70                                                 | 2.2                                               | 38.7                                       | 4333                                          | 1762 |
| 3+1                | 150/70                                                 | 2.3                                               | 42.2                                       | 5170                                          | 2086 |
| 3+1                | 185/95                                                 | 2.5                                               | 47.4                                       | 6604                                          | 2635 |
| 3+1                | 240/120                                                | 2.6                                               | 52.9                                       | 8487                                          | 3348 |
| 3+1                | 300/150                                                | 2.8                                               | 58.4                                       | 10557                                         | 4077 |
| 4+1                | 4/2.5                                                  | 1.8                                               | 13.4                                       | 292                                           | /    |
| 4+1                | 6/4                                                    | 1.8                                               | 14.7                                       | 394                                           | /    |
| 4+1                | 10/6                                                   | 1.8                                               | 17.3                                       | 591                                           | /    |
| 4+1                | 16/10                                                  | 1.8                                               | 20.1                                       | 886                                           | 433  |
| 4+1                | 25/16                                                  | 1.8                                               | 23.7                                       | 1306                                          | 620  |
| 4+1                | 35/16                                                  | 1.8                                               | 25.8                                       | 1699                                          | 751  |
| 4+1                | 50/25                                                  | 1.9                                               | 29.6                                       | 2270                                          | 1010 |
| 4+1                | 70/35                                                  | 2.0                                               | 34.0                                       | 3204                                          | 1387 |
| 4+1                | 95/50                                                  | 2.2                                               | 38.7                                       | 4352                                          | 1806 |
| 4+1                | 120/70                                                 | 2.3                                               | 43.3                                       | 5505                                          | 2277 |
| 4+1                | 150/70                                                 | 2.5                                               | 47.6                                       | 6634                                          | 2654 |
| 4+1                | 150/95                                                 | 2.5                                               | 48.5                                       | 6893                                          | 2756 |
| 4+1                | 185/95                                                 | 2.6                                               | 53.2                                       | 8430                                          | 3387 |
| 4+1                | 240/120                                                | 2.9                                               | 59.8                                       | 10903                                         | 4332 |
| 4+1                | 300/150                                                | 3.1                                               | 65.9                                       | 13561                                         | 5327 |
| 3+2                | 4/2.5                                                  | 1.8                                               | 13.1                                       | 276                                           | /    |
| 3+2                | 6/4                                                    | 1.8                                               | 14.4                                       | 372                                           | /    |
| 3+2                | 10/6                                                   | 1.8                                               | 16.7                                       | 547                                           | /    |
| 3+2                | 16/10                                                  | 1.8                                               | 19.5                                       | 823                                           | 408  |
| 3+2                | 25/16                                                  | 1.8                                               | 22.9                                       | 1216                                          | 570  |
| 3+2                | 35/16                                                  | 1.8                                               | 24.5                                       | 1510                                          | 660  |
| 3+2                | 50/25                                                  | 1.8                                               | 28.2                                       | 2041                                          | 894  |
| 3+2                | 70/35                                                  | 2.0                                               | 32.4                                       | 2878                                          | 1211 |
| 3+2                | 95/50                                                  | 2.1                                               | 36.7                                       | 3878                                          | 1579 |
| 3+2                | 120/70                                                 | 2.3                                               | 41.5                                       | 5019                                          | 2023 |
| 3+2                | 150/70                                                 | 2.4                                               | 44.6                                       | 5849                                          | 2333 |
| 3+2                | 185/95                                                 | 2.5                                               | 50.1                                       | 7513                                          | 2968 |
| 3+2                | 240/120                                                | 2.7                                               | 56.1                                       | 9644                                          | 3771 |
| 3+2                | 300/150                                                | 2.9                                               | 61.9                                       | 11987                                         | 4603 |



| 芯数<br>qty of cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                |                                               | YJV62/<br>YJV22                               | YJLV62/<br>YJLV22 |
| 1                  | 1.5                                              | 1.4                                            | 8.0                                           | 98                                            | /                 |
| 1                  | 2.5                                              | 1.4                                            | 8.3                                           | 112                                           | /                 |
| 1                  | 4                                                | 1.4                                            | 8.8                                           | 133                                           | /                 |
| 1                  | 6                                                | 1.4                                            | 9.3                                           | 159                                           | /                 |
| 1                  | 10                                               | 1.4                                            | 10.4                                          | 212                                           | 175               |
| 1                  | 16                                               | 1.4                                            | 11.4                                          | 283                                           | 210               |
| 1                  | 25                                               | 1.4                                            | 12.8                                          | 383                                           | 266               |
| 1                  | 35                                               | 1.4                                            | 13.8                                          | 488                                           | 311               |
| 1                  | 50                                               | 1.4                                            | 15.1                                          | 614                                           | 377               |
| 1                  | 70                                               | 1.5                                            | 17.0                                          | 837                                           | 472               |
| 1                  | 95                                               | 1.6                                            | 18.9                                          | 1104                                          | 578               |
| 1                  | 120                                              | 1.6                                            | 20.5                                          | 1343                                          | 682               |
| 1                  | 150                                              | 1.7                                            | 22.5                                          | 1634                                          | 796               |
| 1                  | 185                                              | 1.7                                            | 24.6                                          | 2022                                          | 955               |
| 1                  | 240                                              | 1.8                                            | 27.2                                          | 2580                                          | 1167              |
| 1                  | 300                                              | 1.9                                            | 29.6                                          | 3176                                          | 1380              |
| 1                  | 400                                              | 2.0                                            | 32.7                                          | 3979                                          | 1716              |
| 1                  | 500                                              | 2.2                                            | 39.7                                          | 5532                                          | 2515              |
| 2                  | 1.5                                              | 1.8                                            | 11.5                                          | 182                                           | /                 |
| 2                  | 2.5                                              | 1.8                                            | 12.3                                          | 214                                           | /                 |
| 2                  | 4                                                | 1.8                                            | 13.2                                          | 260                                           | /                 |
| 2                  | 6                                                | 1.8                                            | 14.2                                          | 316                                           | /                 |
| 2                  | 10                                               | 1.8                                            | 16.4                                          | 434                                           | 319               |
| 2                  | 16                                               | 1.8                                            | 18.4                                          | 589                                           | 400               |
| 2                  | 25                                               | 1.8                                            | 21.2                                          | 810                                           | 527               |
| 2                  | 35                                               | 1.8                                            | 23.2                                          | 1039                                          | 618               |
| 2                  | 50                                               | 1.8                                            | 25.8                                          | 1315                                          | 767               |
| 2                  | 70                                               | 1.9                                            | 29.5                                          | 1796                                          | 956               |
| 2                  | 95                                               | 2.0                                            | 33.0                                          | 2369                                          | 1206              |
| 2                  | 120                                              | 2.2                                            | 39.3                                          | 3306                                          | 1868              |
| 2                  | 150                                              | 2.3                                            | 43.1                                          | 3982                                          | 2180              |
| 2                  | 185                                              | 2.4                                            | 47.5                                          | 4896                                          | 2620              |
| 2                  | 240                                              | 2.6                                            | 53.3                                          | 6224                                          | 3241              |
| 2                  | 300                                              | 2.8                                            | 58.1                                          | 7586                                          | 3769              |
| 2                  | 400                                              | 3.2                                            | 63.7                                          | 9422                                          | 4728              |
| 2                  | 500                                              | 3.2                                            | 73.1                                          | 12087                                         | 6029              |
| 3                  | 1.5                                              | 1.8                                            | 12.0                                          | 206                                           | /                 |



| 芯数<br>qty of cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                |                                               | YJV62/<br>YJV22                               | YJLV62/<br>YJLV22 |
| 3                  | 2.5                                              | 1.8                                            | 12.8                                          | 248                                           | /                 |
| 3                  | 4                                                | 1.8                                            | 13.8                                          | 309                                           | /                 |
| 3                  | 6                                                | 1.8                                            | 14.9                                          | 384                                           | /                 |
| 3                  | 10                                               | 1.8                                            | 17.2                                          | 541                                           | 364               |
| 3                  | 16                                               | 1.8                                            | 19.4                                          | 754                                           | 462               |
| 3                  | 25                                               | 1.8                                            | 22.5                                          | 1056                                          | 623               |
| 3                  | 35                                               | 1.8                                            | 24.6                                          | 1377                                          | 741               |
| 3                  | 50                                               | 1.8                                            | 27.4                                          | 1760                                          | 931               |
| 3                  | 70                                               | 2.0                                            | 31.5                                          | 2447                                          | 1520              |
| 3                  | 95                                               | 2.2                                            | 38.3                                          | 3644                                          | 1928              |
| 3                  | 120                                              | 2.3                                            | 41.9                                          | 4436                                          | 2307              |
| 3                  | 150                                              | 2.4                                            | 46.0                                          | 5371                                          | 2710              |
| 3                  | 185                                              | 2.6                                            | 50.9                                          | 6665                                          | 3279              |
| 3                  | 240                                              | 2.7                                            | 56.9                                          | 8488                                          | 4083              |
| 3                  | 300                                              | 2.9                                            | 62.1                                          | 10404                                         | 4800              |
| 3                  | 400                                              | 3.2                                            | 68.3                                          | 13022                                         | 6041              |
| 3                  | 500                                              | 3.4                                            | 78.4                                          | 16743                                         | 7656              |
| 4                  | 1.5                                              | 1.8                                            | 12.7                                          | 236                                           | /                 |
| 4                  | 2.5                                              | 1.8                                            | 13.6                                          | 289                                           | /                 |
| 4                  | 4                                                | 1.8                                            | 14.8                                          | 366                                           | /                 |
| 4                  | 6                                                | 1.8                                            | 16.0                                          | 462                                           | /                 |
| 4                  | 10                                               | 1.8                                            | 18.6                                          | 663                                           | 429               |
| 4                  | 16                                               | 1.8                                            | 21.0                                          | 937                                           | 549               |
| 4                  | 25                                               | 1.8                                            | 24.5                                          | 1326                                          | 743               |
| 4                  | 35                                               | 1.8                                            | 26.9                                          | 1744                                          | 895               |
| 4                  | 50                                               | 1.9                                            | 30.2                                          | 2255                                          | 1149              |
| 4                  | 70                                               | 2.0                                            | 34.7                                          | 3147                                          | 1497              |
| 4                  | 95                                               | 2.2                                            | 41.9                                          | 4634                                          | 2354              |
| 4                  | 120                                              | 2.4                                            | 46.0                                          | 5660                                          | 2830              |
| 4                  | 150                                              | 2.5                                            | 51.3                                          | 6933                                          | 3393              |
| 4                  | 185                                              | 2.7                                            | 56.6                                          | 8593                                          | 4114              |
| 4                  | 240                                              | 2.9                                            | 62.9                                          | 10944                                         | 5086              |
| 4                  | 300                                              | 3.1                                            | 68.5                                          | 13446                                         | 6007              |
| 4                  | 400                                              | 3.4                                            | 75.6                                          | 16864                                         | 7556              |
| 4                  | 500                                              | 3.7                                            | 88.2                                          | 22587                                         | 10470             |
| 5                  | 1.5                                              | 1.8                                            | 13.5                                          | 268                                           | /                 |
| 5                  | 2.5                                              | 1.8                                            | 14.5                                          | 332                                           | /                 |



| 芯数<br>qty of cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                |                                               | YJV62/<br>YJV22                               | YJLV62/<br>YJLV22 |
| 5                  | 4                                                | 1.8                                            | 15.8                                          | 426                                           | /                 |
| 5                  | 6                                                | 1.8                                            | 17.2                                          | 543                                           | /                 |
| 5                  | 10                                               | 1.8                                            | 20.1                                          | 788                                           | 493               |
| 5                  | 16                                               | 1.8                                            | 22.8                                          | 1126                                          | 642               |
| 5                  | 25                                               | 1.8                                            | 26.6                                          | 1605                                          | 866               |
| 5                  | 35                                               | 1.9                                            | 29.5                                          | 2134                                          | 1075              |
| 5                  | 50                                               | 2.0                                            | 33.2                                          | 2765                                          | 1360              |
| 5                  | 70                                               | 2.2                                            | 40.9                                          | 4270                                          | 2244              |
| 5                  | 95                                               | 2.4                                            | 45.9                                          | 5651                                          | 2814              |
| 5                  | 120                                              | 2.6                                            | 50.5                                          | 6939                                          | 3396              |
| 5                  | 150                                              | 2.7                                            | 56.2                                          | 8480                                          | 4077              |
| 5                  | 185                                              | 2.9                                            | 62.3                                          | 10557                                         | 4971              |
| 5                  | 240                                              | 3.1                                            | 69.2                                          | 13469                                         | 6169              |
| 5                  | 300                                              | 3.4                                            | 75.7                                          | 16600                                         | 7691              |
| 5                  | 400                                              | 3.7                                            | 84.7                                          | 21638                                         | 10003             |
| 5                  | 500                                              | 4.0                                            | 97.5                                          | 27818                                         | 12673             |
| 3+1                | 4/2.5                                            | 1.8                                            | 14.5                                          | 347                                           | /                 |
| 3+1                | 6/4                                              | 1.8                                            | 15.7                                          | 438                                           | /                 |
| 3+1                | 10/6                                             | 1.8                                            | 18.0                                          | 612                                           | /                 |
| 3+1                | 16/10                                            | 1.8                                            | 20.4                                          | 868                                           | 513               |
| 3+1                | 25/16                                            | 1.8                                            | 23.6                                          | 1228                                          | 696               |
| 3+1                | 35/16                                            | 1.8                                            | 25.4                                          | 1540                                          | 812               |
| 3+1                | 50/25                                            | 1.9                                            | 28.8                                          | 2023                                          | 1043              |
| 3+1                | 70/35                                            | 2.0                                            | 32.7                                          | 2788                                          | 1371              |
| 3+1                | 95/50                                            | 2.2                                            | 39.7                                          | 4111                                          | 2139              |
| 3+1                | 120/70                                           | 2.3                                            | 43.8                                          | 5112                                          | 2598              |
| 3+1                | 150/70                                           | 2.5                                            | 47.5                                          | 6037                                          | 2984              |
| 3+1                | 185/95                                           | 2.6                                            | 53.1                                          | 7594                                          | 3691              |
| 3+1                | 240/120                                          | 2.8                                            | 58.8                                          | 9615                                          | 4534              |
| 3+1                | 300/150                                          | 3.0                                            | 64.3                                          | 11798                                         | 5359              |
| 4+1                | 4/2.5                                            | 1.8                                            | 15.6                                          | 407                                           | /                 |
| 4+1                | 6/4                                              | 1.8                                            | 16.9                                          | 520                                           | /                 |
| 4+1                | 10/6                                             | 1.8                                            | 19.5                                          | 739                                           | /                 |
| 4+1                | 16/10                                            | 1.8                                            | 22.3                                          | 1058                                          | 605               |
| 4+1                | 25/16                                            | 1.8                                            | 25.9                                          | 1508                                          | 834               |
| 4+1                | 35/16                                            | 1.8                                            | 28.0                                          | 1920                                          | 988               |
| 4+1                | 50/25                                            | 2.0                                            | 32.0                                          | 2535                                          | 1293              |



| 芯数<br>qty of cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                |                                               | YJV62/<br>YJV22                               | YJLV62/<br>YJLV22 |
| 4+1                | 70/35                                            | 2.2                                            | 39.3                                          | 3909                                          | 2122              |
| 4+1                | 95/50                                            | 2.3                                            | 43.8                                          | 5132                                          | 2637              |
| 4+1                | 120/70                                           | 2.5                                            | 48.6                                          | 6394                                          | 3211              |
| 4+1                | 150/70                                           | 2.6                                            | 53.3                                          | 7627                                          | 3713              |
| 4+1                | 150/95                                           | 2.7                                            | 54.4                                          | 7928                                          | 3832              |
| 4+1                | 185/95                                           | 2.8                                            | 59.1                                          | 9564                                          | 4532              |
| 4+1                | 240/120                                          | 3.0                                            | 65.6                                          | 12146                                         | 5602              |
| 4+1                | 300/150                                          | 3.2                                            | 71.7                                          | 14928                                         | 6712              |
| 3+2                | 4/2.5                                            | 1.8                                            | 15.3                                          | 389                                           | /                 |
| 3+2                | 6/4                                              | 1.8                                            | 16.6                                          | 496                                           | /                 |
| 3+2                | 10/6                                             | 1.8                                            | 18.9                                          | 690                                           | /                 |
| 3+2                | 16/10                                            | 1.8                                            | 21.7                                          | 990                                           | 575               |
| 3+2                | 25/16                                            | 1.8                                            | 25.1                                          | 1412                                          | 777               |
| 3+2                | 35/16                                            | 1.8                                            | 26.7                                          | 1719                                          | 883               |
| 3+2                | 50/25                                            | 1.9                                            | 30.5                                          | 2293                                          | 1162              |
| 3+2                | 70/35                                            | 2.1                                            | 36.9                                          | 3503                                          | 1521              |
| 3+2                | 95/50                                            | 2.3                                            | 42.0                                          | 4635                                          | 2368              |
| 3+2                | 120/70                                           | 2.4                                            | 46.6                                          | 5852                                          | 2917              |
| 3+2                | 150/70                                           | 2.5                                            | 49.7                                          | 6744                                          | 3285              |
| 3+2                | 185/95                                           | 2.7                                            | 56.0                                          | 8581                                          | 4086              |
| 3+2                | 240/120                                          | 2.9                                            | 62.0                                          | 10836                                         | 5027              |
| 3+2                | 300/150                                          | 3.1                                            | 67.9                                          | 13301                                         | 5964              |

| 芯数 qty of<br>cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                   |                                               | YJV72/<br>YJV32                               | YJLV72/<br>YJLV32 |
| 1                  | 1.5                                              | 1.4                                               | 9.6                                           | 113                                           | /                 |
| 1                  | 2.5                                              | 1.4                                               | 9.9                                           | 129                                           | /                 |
| 1                  | 4                                                | 1.4                                               | 10.4                                          | 150                                           | /                 |
| 1                  | 6                                                | 1.4                                               | 10.9                                          | 177                                           | /                 |
| 1                  | 10                                               | 1.4                                               | 12.0                                          | 232                                           | 171               |
| 1                  | 16                                               | 1.4                                               | 13.0                                          | 305                                           | 206               |
| 1                  | 25                                               | 1.4                                               | 14.4                                          | 406                                           | 258               |



| 芯数 qty of<br>cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                   |                                               | YJV72/<br>YJV32                               | YJLV72/<br>YJLV32 |
| 1                  | 35                                               | 1.4                                               | 16.5                                          | 561                                           | 350               |
| 1                  | 50                                               | 1.4                                               | 17.8                                          | 696                                           | 415               |
| 1                  | 70                                               | 1.5                                               | 19.7                                          | 928                                           | 520               |
| 1                  | 95                                               | 1.6                                               | 22.1                                          | 1241                                          | 674               |
| 1                  | 120                                              | 1.6                                               | 23.9                                          | 1502                                          | 791               |
| 1                  | 150                                              | 1.7                                               | 25.9                                          | 1805                                          | 929               |
| 1                  | 185                                              | 1.7                                               | 28.0                                          | 2209                                          | 1099              |
| 1                  | 240                                              | 1.8                                               | 30.6                                          | 2790                                          | 1337              |
| 1                  | 300                                              | 1.9                                               | 33.8                                          | 3490                                          | 1667              |
| 1                  | 400                                              | 2.0                                               | 37.4                                          | 4370                                          | 2052              |
| 1                  | 500                                              | 2.2                                               | 42.1                                          | 5566                                          | 2549              |
| 2                  | 1.5                                              | 1.8                                               | 13.7                                          | 304                                           | /                 |
| 2                  | 2.5                                              | 1.8                                               | 14.5                                          | 342                                           | /                 |
| 2                  | 4                                                | 1.8                                               | 15.4                                          | 401                                           | /                 |
| 2                  | 6                                                | 1.8                                               | 17.3                                          | 580                                           | /                 |
| 2                  | 10                                               | 1.8                                               | 19.5                                          | 740                                           | 619               |
| 2                  | 16                                               | 1.8                                               | 21.5                                          | 938                                           | 741               |
| 2                  | 25                                               | 1.8                                               | 25.0                                          | 1362                                          | 1063              |
| 2                  | 35                                               | 1.8                                               | 27.0                                          | 1649                                          | 1226              |
| 2                  | 50                                               | 1.8                                               | 29.8                                          | 2009                                          | 1445              |
| 2                  | 70                                               | 1.9                                               | 34.2                                          | 2797                                          | 1978              |
| 2                  | 95                                               | 2.0                                               | 38.2                                          | 3541                                          | 2402              |
| 2                  | 120                                              | 2.2                                               | 41.7                                          | 4216                                          | 2790              |
| 2                  | 150                                              | 2.3                                               | 46.5                                          | 5360                                          | 3600              |
| 2                  | 185                                              | 2.4                                               | 51.5                                          | 6514                                          | 4286              |
| 2                  | 240                                              | 2.6                                               | 56.5                                          | 7961                                          | 5045              |
| 2                  | 300                                              | 2.8                                               | 61.6                                          | 9552                                          | 5893              |
| 2                  | 400                                              | 3.2                                               | 67.8                                          | 11605                                         | 6951              |
| 2                  | 500                                              | 3.2                                               | 78.7                                          | 15487                                         | 9429              |
| 3                  | 1.5                                              | 1.8                                               | 14.2                                          | 331                                           | /                 |
| 3                  | 2.5                                              | 1.8                                               | 15.0                                          | 382                                           | /                 |
| 3                  | 4                                                | 1.8                                               | 16.0                                          | 456                                           | /                 |
| 3                  | 6                                                | 1.8                                               | 18.0                                          | 665                                           | /                 |
| 3                  | 10                                               | 1.8                                               | 20.3                                          | 874                                           | 692               |
| 3                  | 16                                               | 1.8                                               | 22.5                                          | 1129                                          | 833               |
| 3                  | 25                                               | 1.8                                               | 26.3                                          | 1636                                          | 1188              |
| 3                  | 35                                               | 1.8                                               | 28.4                                          | 2015                                          | 1381              |



| 芯数 qty of<br>cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                   |                                               | YJV72/<br>YJV32                               | YJLV72/<br>YJLV32 |
| 3                  | 50                                               | 1.8                                               | 31.4                                          | 2499                                          | 1653              |
| 3                  | 70                                               | 2.0                                               | 36.6                                          | 3571                                          | 2342              |
| 3                  | 95                                               | 2.2                                               | 40.5                                          | 4502                                          | 2794              |
| 3                  | 120                                              | 2.3                                               | 44.1                                          | 5402                                          | 3263              |
| 3                  | 150                                              | 2.4                                               | 49.8                                          | 6910                                          | 4271              |
| 3                  | 185                                              | 2.6                                               | 54.7                                          | 8389                                          | 5047              |
| 3                  | 240                                              | 2.7                                               | 60.6                                          | 10454                                         | 6079              |
| 3                  | 300                                              | 2.9                                               | 65.6                                          | 12492                                         | 7002              |
| 3                  | 400                                              | 3.2                                               | 73.7                                          | 16196                                         | 9215              |
| 3                  | 500                                              | 3.4                                               | 84.3                                          | 20527                                         | 11440             |
| 4                  | 1.5                                              | 1.8                                               | 14.9                                          | 370                                           | /                 |
| 4                  | 2.5                                              | 1.8                                               | 15.8                                          | 437                                           | /                 |
| 4                  | 4                                                | 1.8                                               | 17.9                                          | 638                                           | /                 |
| 4                  | 6                                                | 1.8                                               | 19.1                                          | 759                                           | /                 |
| 4                  | 10                                               | 1.8                                               | 21.7                                          | 1020                                          | 778               |
| 4                  | 16                                               | 1.8                                               | 24.8                                          | 1457                                          | 1063              |
| 4                  | 25                                               | 1.8                                               | 28.3                                          | 1945                                          | 1348              |
| 4                  | 35                                               | 1.8                                               | 30.9                                          | 2447                                          | 1602              |
| 4                  | 50                                               | 1.9                                               | 35.2                                          | 3320                                          | 2192              |
| 4                  | 70                                               | 2.0                                               | 39.9                                          | 4369                                          | 2730              |
| 4                  | 95                                               | 2.2                                               | 44.2                                          | 5600                                          | 3322              |
| 4                  | 120                                              | 2.4                                               | 49.7                                          | 7201                                          | 4348              |
| 4                  | 150                                              | 2.5                                               | 54.5                                          | 8581                                          | 5062              |
| 4                  | 185                                              | 2.7                                               | 59.8                                          | 10456                                         | 5998              |
| 4                  | 240                                              | 2.9                                               | 66.5                                          | 13090                                         | 7257              |
| 4                  | 300                                              | 3.1                                               | 72.0                                          | 15785                                         | 8466              |
| 4                  | 400                                              | 3.4                                               | 81.5                                          | 20491                                         | 11182             |
| 4                  | 500                                              | 3.7                                               | 93.0                                          | 25895                                         | 13778             |
| 5                  | 1.5                                              | 1.8                                               | 15.7                                          | 412                                           | /                 |
| 5                  | 2.5                                              | 1.8                                               | 17.6                                          | 604                                           | /                 |
| 5                  | 4                                                | 1.8                                               | 18.9                                          | 723                                           | /                 |
| 5                  | 6                                                | 1.8                                               | 20.3                                          | 866                                           | /                 |
| 5                  | 10                                               | 1.8                                               | 23.9                                          | 1311                                          | 1009              |
| 5                  | 16                                               | 1.8                                               | 26.6                                          | 1721                                          | 1228              |



| 芯数 qty of<br>cores | 标称截面 nominal<br>cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outer<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|--------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|
|                    |                                                  |                                                   |                                               | YJV72/<br>YJV32                               | YJLV72/<br>YJLV32 |
| 5                  | 25                                               | 1.8                                               | 30.6                                          | 2292                                          | 1546              |
| 5                  | 35                                               | 1.9                                               | 33.5                                          | 2918                                          | 1861              |
| 5                  | 50                                               | 2.0                                               | 38.5                                          | 3952                                          | 2543              |
| 5                  | 70                                               | 2.2                                               | 43.3                                          | 5212                                          | 3164              |
| 5                  | 95                                               | 2.4                                               | 49.6                                          | 7193                                          | 4346              |
| 5                  | 120                                              | 2.6                                               | 54.3                                          | 8631                                          | 5064              |
| 5                  | 150                                              | 2.7                                               | 59.4                                          | 10308                                         | 5910              |
| 5                  | 185                                              | 2.9                                               | 65.8                                          | 12680                                         | 7109              |
| 5                  | 240                                              | 3.1                                               | 72.9                                          | 15868                                         | 8577              |
| 5                  | 300                                              | 3.4                                               | 80.8                                          | 20144                                         | 10994             |
| 5                  | 400                                              | 3.7                                               | 89.4                                          | 24831                                         | 13196             |
| 5                  | 500                                              | 4.0                                               | 102.0                                         | 31474                                         | 16328             |
| 3+1                | 4/2.5                                            | 1.8                                               | 17.6                                          | 619                                           | /                 |
| 3+1                | 6/4                                              | 1.8                                               | 18.8                                          | 736                                           | /                 |
| 3+1                | 10/6                                             | 1.8                                               | 21.1                                          | 952                                           | /                 |
| 3+1                | 16/10                                            | 1.8                                               | 24.2                                          | 1390                                          | 1034              |
| 3+1                | 25/16                                            | 1.8                                               | 27.4                                          | 1837                                          | 1290              |
| 3+1                | 35/16                                            | 1.8                                               | 29.4                                          | 2220                                          | 1487              |
| 3+1                | 50/25                                            | 1.9                                               | 32.8                                          | 2770                                          | 1775              |
| 3+1                | 70/35                                            | 2.0                                               | 39.0                                          | 4267                                          | 2826              |
| 3+1                | 95/50                                            | 2.2                                               | 43.1                                          | 5337                                          | 3347              |
| 3+1                | 120/70                                           | 2.3                                               | 47.2                                          | 6484                                          | 3934              |
| 3+1                | 150/70                                           | 2.5                                               | 51.2                                          | 7641                                          | 4593              |
| 3+1                | 185/95                                           | 2.6                                               | 56.3                                          | 9339                                          | 5427              |
| 3+1                | 240/120                                          | 2.8                                               | 62.3                                          | 11618                                         | 6530              |
| 3+1                | 300/150                                          | 3.0                                               | 67.8                                          | 13985                                         | 7616              |
| 4+1                | 4/2.5                                            | 1.8                                               | 18.7                                          | 696                                           | /                 |
| 4+1                | 6/4                                              | 1.8                                               | 20.0                                          | 843                                           | /                 |
| 4+1                | 10/6                                             | 1.8                                               | 23.3                                          | 1247                                          | /                 |
| 4+1                | 16/10                                            | 1.8                                               | 26.1                                          | 1638                                          | 1184              |
| 4+1                | 25/16                                            | 1.8                                               | 29.8                                          | 2202                                          | 1506              |
| 4+1                | 35/16                                            | 1.8                                               | 32.0                                          | 2673                                          | 1729              |
| 4+1                | 50/25                                            | 2.0                                               | 37.1                                          | 3659                                          | 2381              |
| 4+1                | 70/35                                            | 2.2                                               | 41.7                                          | 4821                                          | 2971              |



| 芯数 qty of cores | 标称截面 nominal cross section mm <sup>2</sup> | 护套标称厚度 Nominal thickness of sheath mm | 计算外径 Calculated outer diameter mm | 电缆计算重量 Calculated weight of cable kg/km |                   |
|-----------------|--------------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------|-------------------|
|                 |                                            |                                       |                                   | YJV72/<br>YJV32                         | YJLV72/<br>YJLV32 |
| 4+1             | 95/50                                      | 2.3                                   | 47.3                              | 6544                                    | 3984              |
| 4+1             | 120/70                                     | 2.5                                   | 52.3                              | 8026                                    | 4763              |
| 4+1             | 150/70                                     | 2.6                                   | 56.4                              | 9370                                    | 5442              |
| 4+1             | 150/95                                     | 2.7                                   | 57.5                              | 9700                                    | 5612              |
| 4+1             | 185/95                                     | 2.8                                   | 62.6                              | 11562                                   | 6536              |
| 4+1             | 240/120                                    | 3.0                                   | 69.1                              | 14356                                   | 7810              |
| 4+1             | 300/150                                    | 3.2                                   | 76.7                              | 18233                                   | 10034             |
| 3+2             | 4/2.5                                      | 1.8                                   | 18.4                              | 678                                     | /                 |
| 3+2             | 6/4                                        | 1.8                                   | 19.7                              | 811                                     | /                 |
| 3+2             | 10/6                                       | 1.8                                   | 22.0                              | 1055                                    | /                 |
| 3+2             | 16/10                                      | 1.8                                   | 25.5                              | 1556                                    | 1140              |
| 3+2             | 25/16                                      | 1.8                                   | 28.9                              | 2064                                    | 1419              |
| 3+2             | 35/16                                      | 1.8                                   | 30.7                              | 2428                                    | 1597              |
| 3+2             | 50/25                                      | 1.9                                   | 35.5                              | 3358                                    | 2213              |
| 3+2             | 70/35                                      | 2.1                                   | 39.9                              | 4391                                    | 2739              |
| 3+2             | 95/50                                      | 2.3                                   | 44.4                              | 5618                                    | 3346              |
| 3+2             | 120/70                                     | 2.4                                   | 50.6                              | 7446                                    | 4486              |
| 3+2             | 150/70                                     | 2.5                                   | 53.7                              | 8424                                    | 4965              |
| 3+2             | 185/95                                     | 2.7                                   | 59.1                              | 10413                                   | 5931              |
| 3+2             | 240/120                                    | 2.9                                   | 65.5                              | 12926                                   | 7125              |
| 3+2             | 300/150                                    | 3.1                                   | 71.4                              | 15609                                   | 8360              |

导体短路电流: Conductor short-circuit current

| 标称截面 nominal cross section mm <sup>2</sup> | 铜芯 cooper conductor I kA |      |      | 铝芯 aluminum-conductor I kA |      |      |
|--------------------------------------------|--------------------------|------|------|----------------------------|------|------|
|                                            | t=1s                     | t=3s | t=5s | t=1s                       | t=3s | t=5s |
| 1.5                                        | 0.21                     | 0.12 | 0.10 | /                          | /    | /    |
| 2.5                                        | 0.36                     | 0.21 | 0.16 | /                          | /    | /    |
| 4                                          | 0.57                     | 0.33 | 0.26 | /                          | /    | /    |
| 6                                          | 0.86                     | 0.50 | 0.38 | /                          | /    | /    |
| 10                                         | 1.43                     | 0.83 | 0.64 | 0.94                       | 0.55 | 0.42 |
| 16                                         | 2.29                     | 1.32 | 1.02 | 1.51                       | 0.87 | 0.68 |
| 25                                         | 3.58                     | 2.07 | 1.60 | 2.36                       | 1.36 | 1.06 |



| 标称截面 nominal cross section<br>mm <sup>2</sup> | 铜芯 cooper conductor I<br>kA |       |       | 铝芯 aluminum-conductor I<br>kA |       |       |
|-----------------------------------------------|-----------------------------|-------|-------|-------------------------------|-------|-------|
|                                               | t=1s                        | t=3s  | t=5s  | t=1s                          | t=3s  | t=5s  |
| 35                                            | 5.01                        | 2.89  | 2.24  | 3.31                          | 1.91  | 1.48  |
| 50                                            | 7.15                        | 4.13  | 3.20  | 4.72                          | 2.73  | 2.11  |
| 70                                            | 10.02                       | 5.78  | 4.48  | 6.61                          | 3.82  | 2.96  |
| 95                                            | 13.59                       | 7.85  | 6.08  | 8.98                          | 5.18  | 4.01  |
| 120                                           | 17.17                       | 9.91  | 7.68  | 11.34                         | 6.55  | 5.07  |
| 150                                           | 21.46                       | 12.39 | 9.60  | 14.17                         | 8.18  | 6.34  |
| 185                                           | 26.47                       | 15.28 | 11.84 | 17.48                         | 10.09 | 7.82  |
| 240                                           | 34.34                       | 19.83 | 15.36 | 22.68                         | 13.09 | 10.14 |
| 300                                           | 42.93                       | 24.78 | 19.20 | 28.35                         | 16.37 | 12.68 |
| 400                                           | 57.23                       | 33.04 | 25.60 | 37.79                         | 21.82 | 16.90 |
| 500                                           | 71.54                       | 41.30 | 31.99 | 47.24                         | 27.28 | 21.13 |
| 630                                           | 90.14                       | 52.04 | 40.31 | 59.52                         | 34.37 | 26.62 |



载流量(包含修正系数): Current carrying capacity (including correction factor)

铜芯电力电缆载流量 (A) copper core power cable carrying capacity (A)

| 标称<br>截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 Non-armored cable |            |                 |            |                   |            | 钢带铠装型电缆 Steel tape armoured cable |            |                 |            |                   |            |
|------------------------------------------------------------|-------------------------|------------|-----------------|------------|-------------------|------------|-----------------------------------|------------|-----------------|------------|-------------------|------------|
|                                                            | 单芯 single<br>core       |            | 二芯 two<br>cores |            | 三-五芯 3-5<br>cores |            | 单芯 single<br>core                 |            | 二芯 two<br>cores |            | 三-五芯 3-5<br>cores |            |
|                                                            | 空气<br>Air               | 土壤<br>soil | 空气<br>Air       | 土壤<br>soil | 空气<br>Air         | 土壤<br>soil | 空气<br>Air                         | 土壤<br>soil | 空气<br>Air       | 土壤<br>soil | 空气<br>Air         | 土壤<br>soil |
| 2.5                                                        | 31                      | 42         | 33              | 46         | 28                | 39         | 33                                | 41         | 35              | 45         | 30                | 35         |
| 4                                                          | 41                      | 55         | 43              | 59         | 37                | 51         | 43                                | 53         | 45              | 59         | 40                | 50         |
| 6                                                          | 52                      | 69         | 55              | 75         | 47                | 64         | 52                                | 67         | 55              | 74         | 50                | 60         |
| 10                                                         | 71                      | 92         | 76              | 100        | 65                | 86         | 71                                | 90         | 75              | 100        | 64                | 85         |
| 16                                                         | 92                      | 115        | 97              | 130        | 84                | 110        | 92                                | 122        | 97              | 135        | 83                | 110        |
| 25                                                         | 120                     | 150        | 130             | 165        | 110               | 140        | 119                               | 149        | 125             | 165        | 110               | 140        |
| 35                                                         | 150                     | 180        | 160             | 200        | 135               | 170        | 147                               | 180        | 155             | 200        | 135               | 170        |
| 50                                                         | 180                     | 215        | 195             | 240        | 170               | 205        | 181                               | 216        | 190             | 240        | 165               | 200        |
| 70                                                         | 230                     | 265        | 245             | 290        | 215               | 250        | 233                               | 266        | 245             | 295        | 210               | 245        |
| 95                                                         | 285                     | 320        | 305             | 355        | 265               | 300        | 285                               | 320        | 300             | 355        | 260               | 300        |
| 120                                                        | 335                     | 360        | 355             | 405        | 310               | 345        | 333                               | 365        | 350             | 405        | 305               | 335        |
| 150                                                        | 385                     | 410        | 405             | 450        | 350               | 385        | 380                               | 410        | 400             | 455        | 345               | 380        |
| 185                                                        | 450                     | 460        | 465             | 510        | 405               | 435        | 437                               | 464        | 460             | 515        | 395               | 430        |
| 240                                                        | 535                     | 535        | 545             | 575        | 480               | 500        | 499                               | 522        | 525             | 580        | 465               | 500        |
| 300                                                        | 620                     | 605        | 635             | 655        | 555               | 565        | 561                               | 581        | 590             | 645        | 535               | 565        |
| 400                                                        | 720                     | 685        | 735             | 750        | 640               | 640        | 627                               | 644        | 660             | 715        | 620               | 650        |
| 500                                                        | 835                     | 775        | 845             | 850        | 735               | 725        | 703                               | 716        | 740             | 795        | 705               | 725        |
| 630                                                        | 960                     | 865        | 965             | 960        | 845               | 825        | 789                               | 797        | 830             | 885        | 800               | 805        |

铝芯电力电缆载流量 (A) Aluminum core power cable carrying capacity (A)

| 标称<br>截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 Non-armored cable |            |                 |            |                   |            | 钢带铠装型电缆 Steel tape armoured cable |            |                 |            |                   |            |
|------------------------------------------------------------|-------------------------|------------|-----------------|------------|-------------------|------------|-----------------------------------|------------|-----------------|------------|-------------------|------------|
|                                                            | 单芯 single<br>core       |            | 二芯 two<br>cores |            | 三-五芯 3-5<br>cores |            | 单芯 single<br>core                 |            | 二芯 two<br>cores |            | 三-五芯 3-5<br>cores |            |
|                                                            | 空气<br>Air               | 土壤<br>soil | 空气<br>Air       | 土壤<br>soil | 空气<br>Air         | 土壤<br>soil | 空气<br>Air                         | 土壤<br>soil | 空气<br>Air       | 土壤<br>soil | 空气<br>Air         | 土壤<br>soil |
| 2.5                                                        | 24                      | 33         | 25              | 36         | 22                | 31         | 19                                | 32         | 20              | 35         | 17                | 30         |
| 4                                                          | 32                      | 43         | 34              | 47         | 29                | 40         | 29                                | 42         | 30              | 47         | 28                | 40         |



|     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6   | 42  | 56  | 45  | 61  | 39  | 52  | 41  | 55  | 43  | 61  | 38  | 50  |
| 10  | 55  | 71  | 58  | 78  | 50  | 66  | 55  | 69  | 58  | 77  | 50  | 65  |
| 16  | 71  | 91  | 75  | 100 | 65  | 85  | 71  | 95  | 75  | 105 | 64  | 85  |
| 25  | 94  | 115 | 100 | 130 | 87  | 110 | 95  | 117 | 100 | 130 | 86  | 110 |
| 35  | 115 | 140 | 120 | 155 | 105 | 130 | 114 | 140 | 120 | 155 | 105 | 130 |
| 50  | 140 | 165 | 150 | 185 | 130 | 160 | 138 | 167 | 145 | 185 | 125 | 155 |
| 70  | 180 | 205 | 190 | 225 | 165 | 195 | 181 | 207 | 190 | 230 | 165 | 190 |
| 95  | 220 | 245 | 235 | 275 | 205 | 235 | 223 | 248 | 235 | 275 | 200 | 230 |
| 120 | 260 | 280 | 275 | 315 | 240 | 265 | 257 | 284 | 270 | 315 | 235 | 260 |
| 150 | 300 | 315 | 315 | 350 | 270 | 300 | 295 | 320 | 310 | 355 | 270 | 295 |
| 185 | 350 | 360 | 365 | 395 | 315 | 340 | 337 | 360 | 355 | 400 | 310 | 335 |
| 240 | 415 | 420 | 435 | 450 | 375 | 395 | 385 | 405 | 405 | 450 | 365 | 390 |
| 300 | 485 | 475 | 515 | 515 | 435 | 445 | 437 | 455 | 460 | 505 | 420 | 440 |
| 400 | 570 | 545 | 605 | 590 | 510 | 510 | 499 | 513 | 525 | 570 | 495 | 505 |
| 500 | 670 | 620 | 705 | 685 | 600 | 595 | 575 | 585 | 605 | 650 | 580 | 585 |
| 630 | 790 | 705 | 815 | 800 | 710 | 700 | 670 | 675 | 705 | 750 | 685 | 690 |

注 Note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0、埋地深度 700mm

air temperature 40℃; soil temperature 25℃, thermal resistance coefficient 1.0, and the buried depth 700mm

环境温度不同时的载流量修正系数表 Correction coefficient of carrying current at different ambient temperature

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 空气中环境温度℃ Ambient temperature in the air |      |      |      |      |      |      |      |
|------------------------------------------------------|-----------------------------------------|------|------|------|------|------|------|------|
|                                                      | 20                                      | 25   | 30   | 35   | 40   | 45   | 50   | 55   |
| 90                                                   | 1.23                                    | 1.17 | 1.12 | 1.06 | 1.00 | 0.94 | 0.87 | 0.81 |

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 土壤中环境温度℃ Ambient temperature in soil |      |      |      |      |      |      |  |
|------------------------------------------------------|--------------------------------------|------|------|------|------|------|------|--|
|                                                      | 10                                   | 15   | 20   | 25   | 30   | 35   | 40   |  |
| 90                                                   | 1.11                                 | 1.07 | 1.04 | 1.00 | 0.96 | 0.92 | 0.88 |  |



不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

|                                                                |     |      |      |      |      |
|----------------------------------------------------------------|-----|------|------|------|------|
| 土壤热阻系数<br>soil thermal resistivity<br>$\rho_w = (K \cdot m/W)$ | 1.0 | 1.2  | 1.5  | 2.0  | 2.5  |
| 校正系数<br>correction coefficient                                 | 1   | 0.93 | 0.85 | 0.75 | 0.67 |

注 Note: 给出的校正系数是敷设方式范围内的平均值, 校正系数的综合误差在 $\pm 5\%$ 以内。The correction coefficient given is the average value in the range of laying methods, and the comprehensive tolerance of the correction coefficient is within  $\pm 5\%$

电缆安装时的最小弯曲半径: Minimum bending radius during cable installation:

| 项目 item                                                                               | 单芯电缆 single core   |                 | 三芯电缆 3 cores       |                 |
|---------------------------------------------------------------------------------------|--------------------|-----------------|--------------------|-----------------|
|                                                                                       | 无铠装<br>Non-armored | 有铠装<br>armoring | 无铠装<br>Non-armored | 有铠装<br>armoring |
| 安装时的电缆最小弯曲半径<br>Minimum bending radius during installation                            | 20D                | 15D             | 15D                | 12D             |
| 靠近连接盒和终端时电缆最小弯曲半径<br>Minimum bending radius when close to the connectors and terminal | 15D                | 12D             | 12D                | 10D             |
| 注 Note: D 为电缆外径 D is the outer diameter of cable                                      |                    |                 |                    |                 |



## 电缆装卸、运输、敷设要求: requirements during cable loading and unloading, transportation, laying:

1、确认收货前应对电缆外观进行检查, 确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象, 如有异常应及时联系我司, 否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirements.

2、电缆吊装、运输、敷设过程要妥善保护, 电缆本体及两端封帽要确保无破损, 防止雨水或其它有害气体、液体进入电缆内部, 导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于 45° 的弯折, 防止光纤折断, 难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥, 避免长时间暴露于露天或潮湿地方, 低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下, 以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前, 应核对电缆型号、规格、额定电压是否正确, 检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中, 如因天气原因暂停敷设, 电缆要放置于安全、干燥处, 防止受到外力撞击, 如电缆封帽已去掉, 电缆端头应做好保护措施, 防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

6、敷设时遇有中间接头、终端接头以及弯道处, 应根据实际情况适当留有余量, 以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

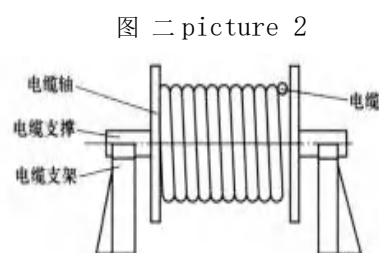
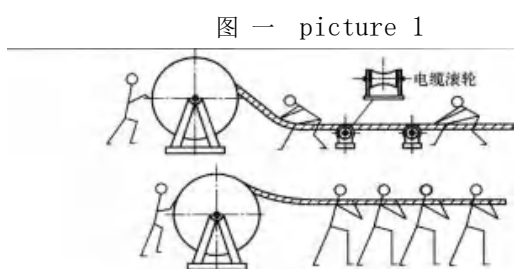


7、电缆敷设过程中，为了防止弯曲过度而损坏，电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定：In the process of cable laying, in order to prevent excessive bending and damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

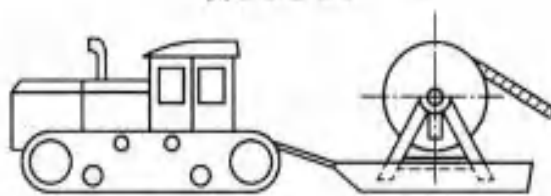
8、按国家标准要求，电缆敷设环境温度应不低于 0℃，寒冷季节敷设电缆时，敷设现场的温度低于 0℃时，应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than 0℃. When laying cables in cold season, when the temperature of the laying site is lower than 0℃, the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放，切不可反方向滚动，以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时，支架设地点应选好，以敷设方便为准，一般应在电缆起止点附近为宜，应注意电缆轴的转动方向，电缆引出端应在轴的上方，见图二：When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:



11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设（符合国标 GB50618-2016）。The cable can be laid by manual pulling as shown in picture 1 or mechanical pulling as shown in picture 3 (in accordance with the national standard GB50618-2016).



图三 picture 3



## 二、额定电压 1.8/3kV 及以下铜(铝)芯交联聚乙烯绝缘电力电缆 Rated voltage 1.8/3kV and below cooper(aluminum) core crosslinked polyethylene insulated power cable

依据标准:reference standard

GB / T 12706.1 额定电压 1kV ( $U_m=1.2$ kV) 到 35kV ( $U_m=40.5$ kV) 挤包绝缘电力电缆及附件

第 1 部分: 额定电压 1kV ( $U_m=1.2$ kV) 和 3kV ( $U_m=3.6$ kV) 电缆

Extruded insulated power cables and accessories for rated voltages 1kV ( $U_m=1.2$ kV) to 35kV ( $U_m=40.5$ kV) – Part 1: Cables for rated voltages 1kV ( $U_m=1.2$ kV) and 3kV ( $U_m=3.6$ kV)

适用范围: scope of applications

本产品适用于额定电压 1.8/3kV 输配电线路作配送电能之用。This product is suitable for the rated voltage 1.8/3kV transmission and distribution lines

使用特性: operating characteristics

额定电压  $U_0/U$  为 1.8/3kV rated voltage  $U_0/U$  1.8/3kV

最高系统电压  $U_m$  为 3.6kV maximum system voltage  $U_m$  3.6kV

电缆导体的最高允许工作温度为 90℃ The maximum allowed operating temperature of the conductor is 90℃

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℃ The maximum short-circuit temperature of the conductor shall not exceed 250 ° C (5s maximum duration)

电缆敷设时环境温度应不低于 0℃ The ambient temperature should not be lower than 0 ° C when the cable is laid

型号规格: type and specification

| 型号 type |        | 芯数 qty of cores       | 名称 Name                                                                                                                                               |
|---------|--------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| YJV     | YJLV   | 1、2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘聚氯乙烯护套电力电缆<br>Copper (aluminum) core crosslinked polyethylene insulated PVC sheathed power cable                                          |
| YJY     | YJLY   | 1、2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘聚乙烯护套电力电缆<br>Copper (aluminum) core crosslinked polyethylene insulation polyethylene sheathed power cable                                 |
| YJV62   | YJLV62 | 1                     | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆<br>Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal tape armoured PVC sheathed power cable |



|       |        |                     |                                                                                                                                                            |
|-------|--------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YJY63 | YJLY63 | 1                   | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal with armoured polyethylene sheathed power cable |
| YJV22 | YJLV22 | 2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured PVC sheathed power cable                          |
| YJY23 | YJLY23 | 2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable                  |
| YJV32 | YJLV32 | 2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated fine wire armouring PVC sheathed power cable                         |
| YJY33 | YJLY33 | 2、3、4、5、3+1、3+2、4+1 | 铜(铝)芯交联聚乙烯绝缘细钢丝铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated fine wire armoured polyethylene sheathed power cable                  |

备注: note

可根据用户需求,生产各类阻燃、低烟无卤、耐火及耐寒电力电缆; all kinds of flame-retardant, low-smoke halogen-free, fire-resistant and cold-resistant power cables are available according to requirements.

阻燃电缆可在型号中加阻燃特性符号,如 Z, ZC, ZB, ZA; Flame retardant cable model has characteristic symbol, such as Z, ZC, ZB, ZA;

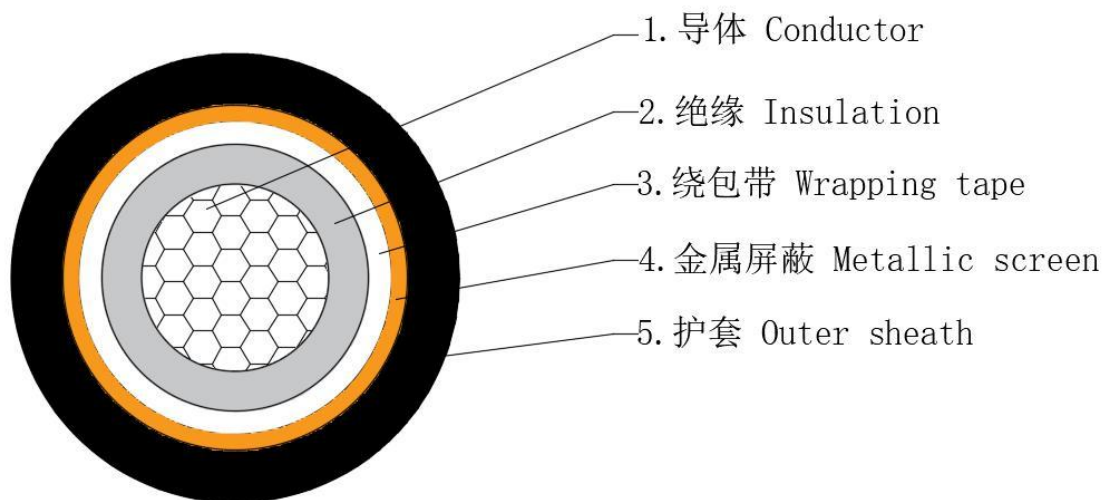
低烟无卤可在型号中加无卤低烟特性符号,如 WD; Low-smoke halogen-free model has characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号,如 HD。Cold resistance cable model has characteristic symbol, such as HD.

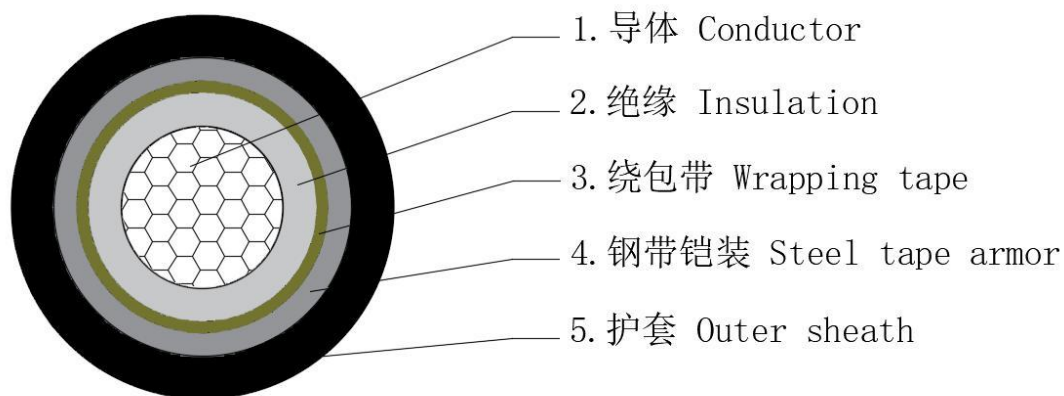
耐火电缆可在型号中加耐火特性符号,如 N。Fire resistant cable model has characteristic symbol, such as N.



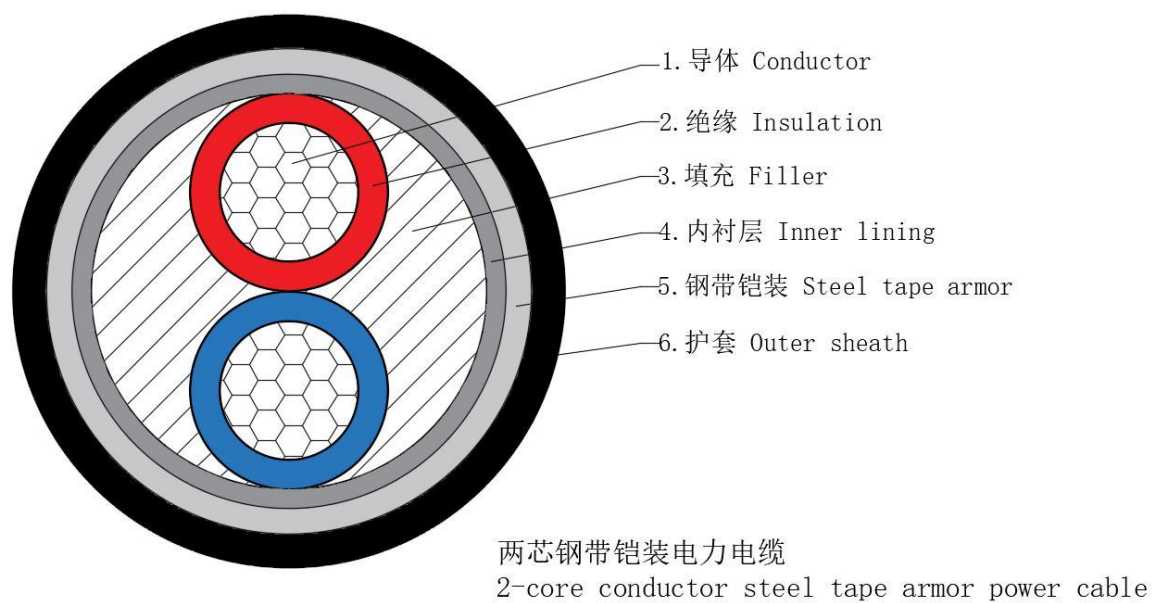
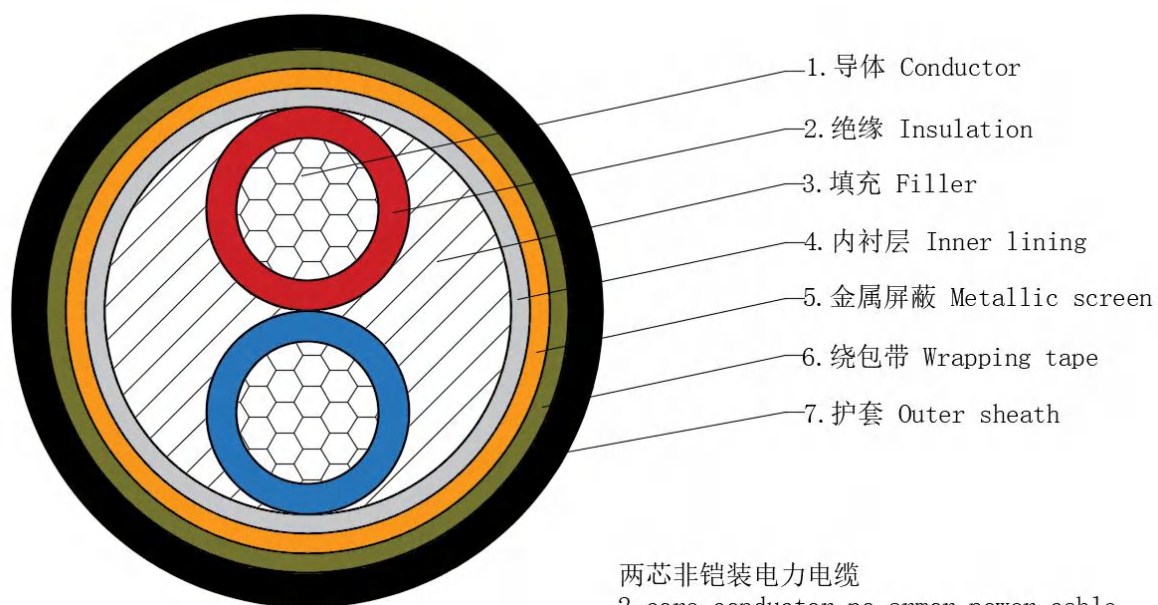
结构示意图: structural illustration

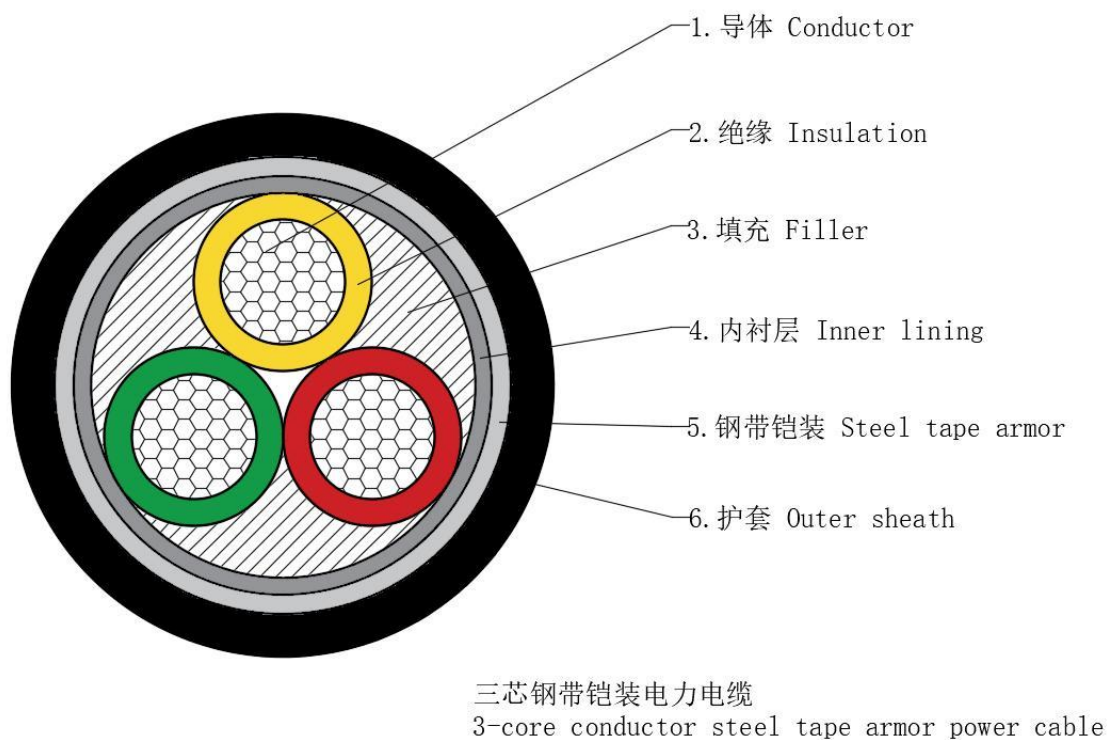
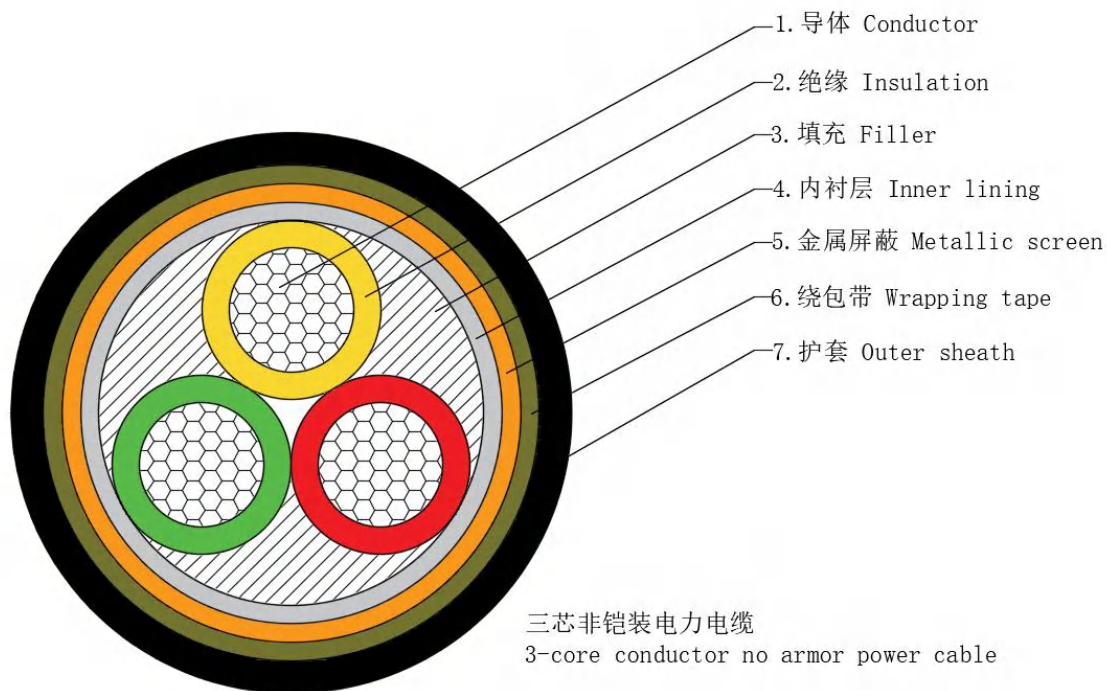


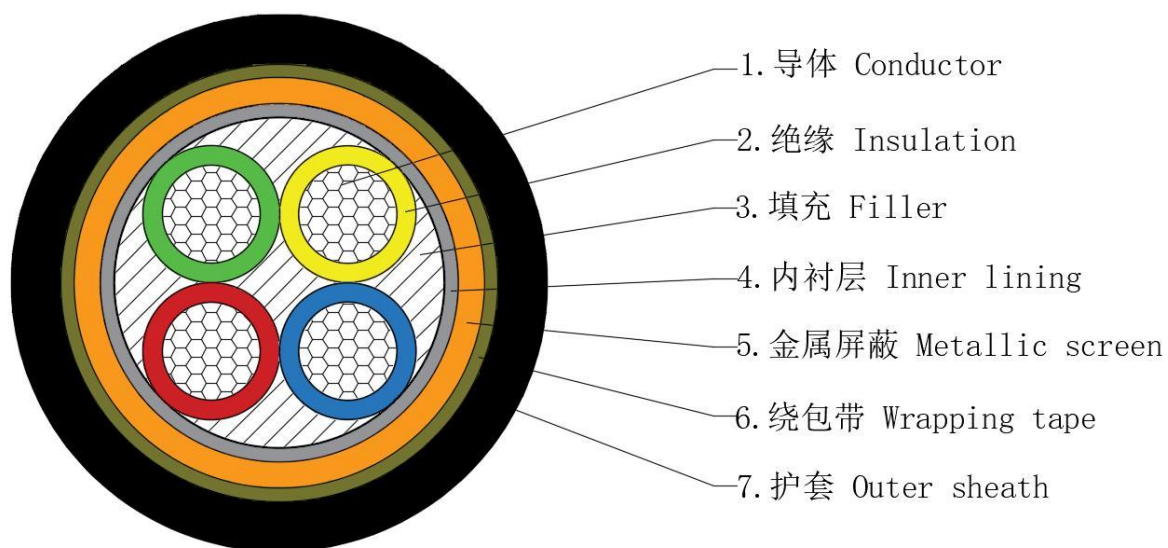
单芯非铠装电力电缆  
1-core conductor no armor power cable



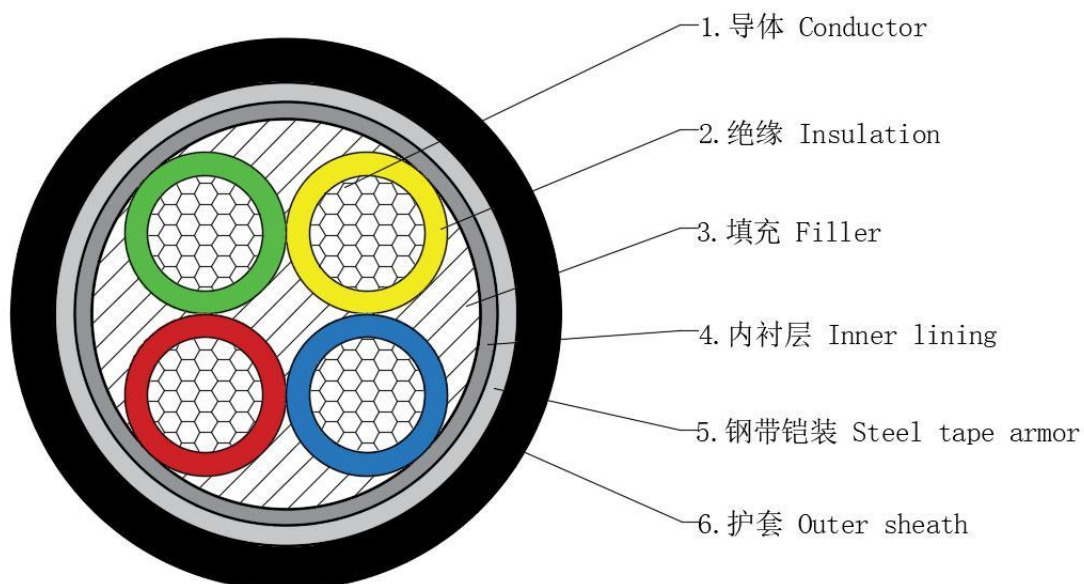
单芯钢带铠装电力电缆  
1-core conductor steel tape armor power cable



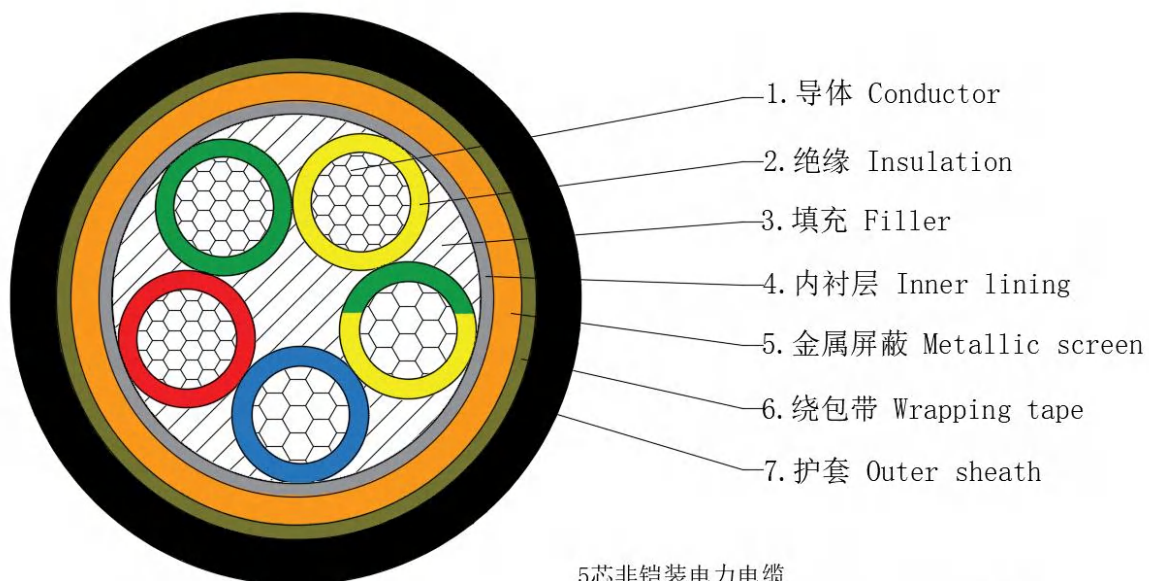




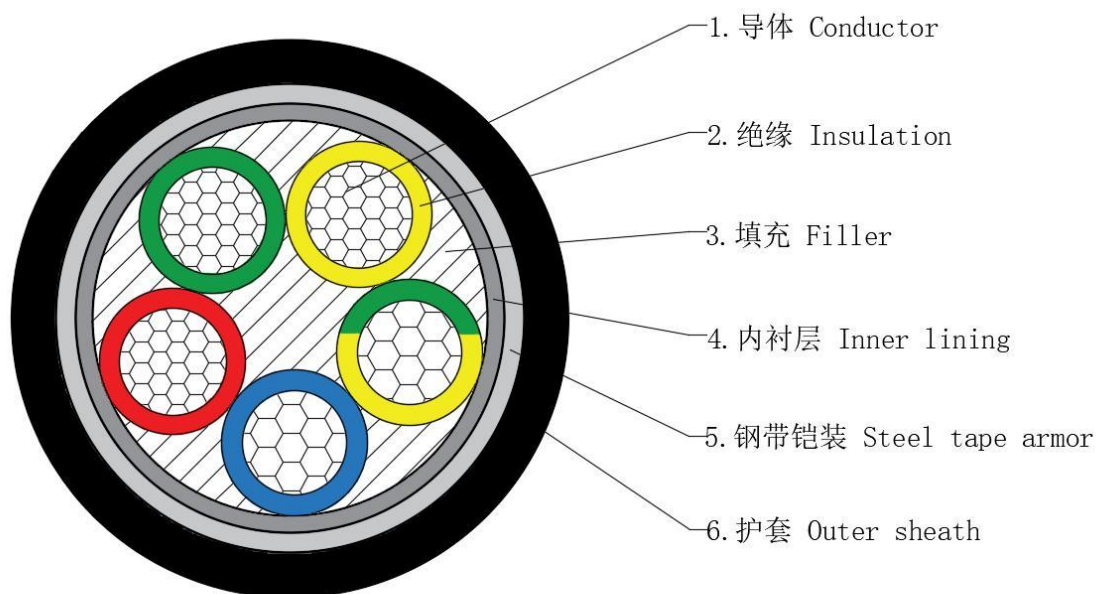
4芯非铠装电力电缆  
4-core conductor no armor power cable



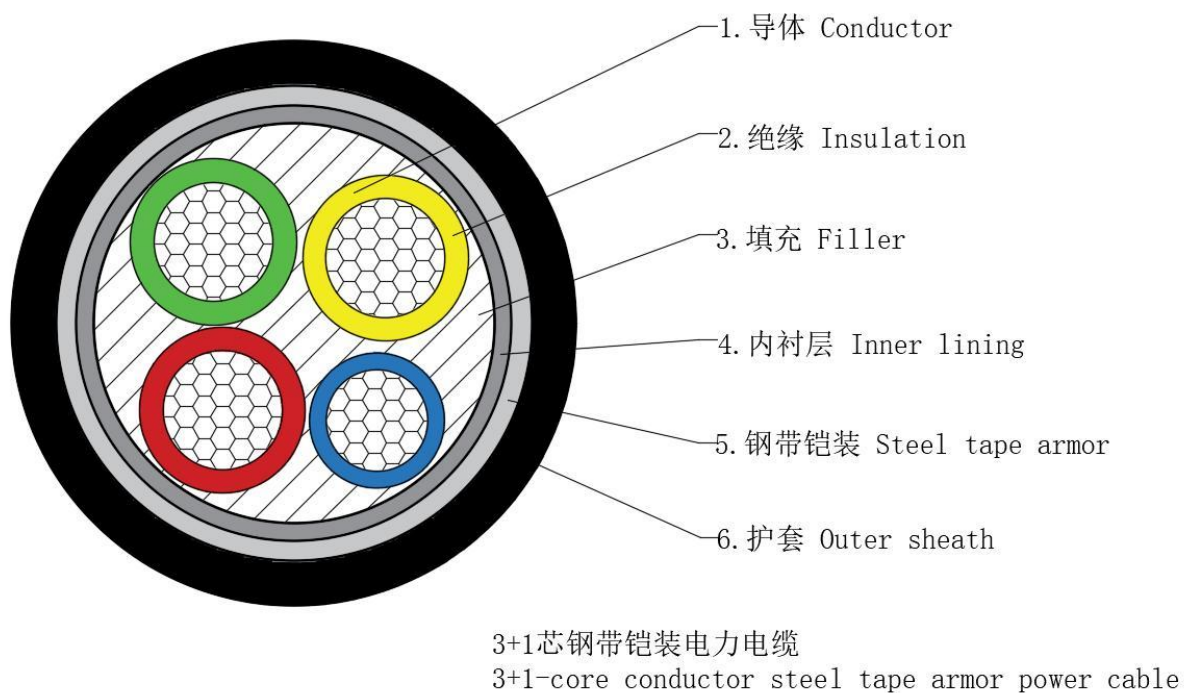
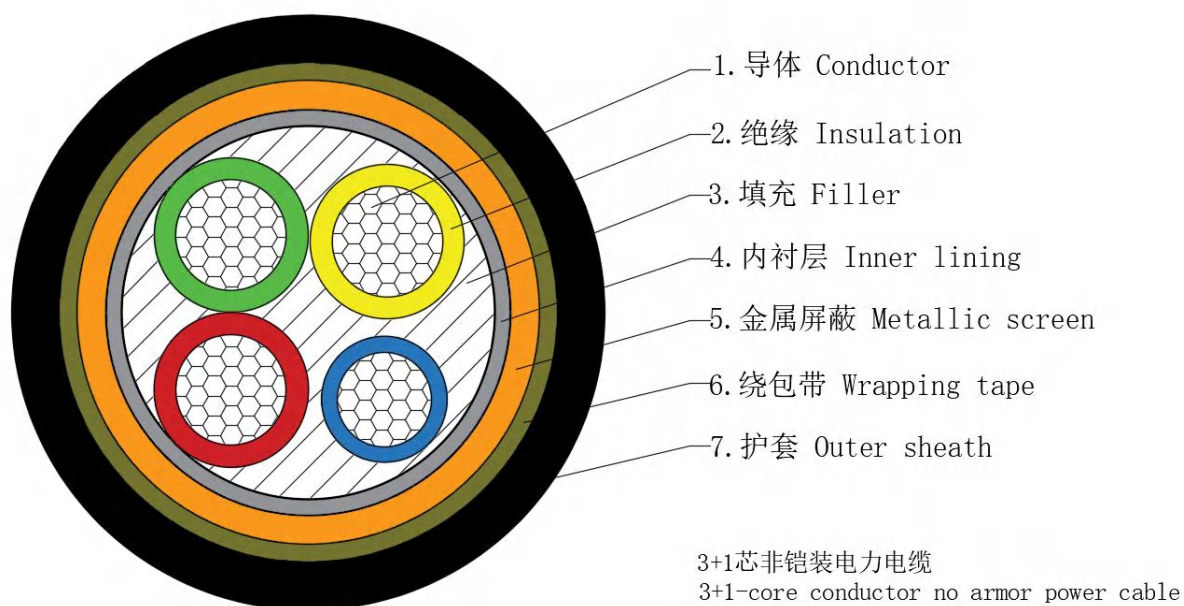
4芯钢带铠装电力电缆  
4-core conductor steel tape armor power cable

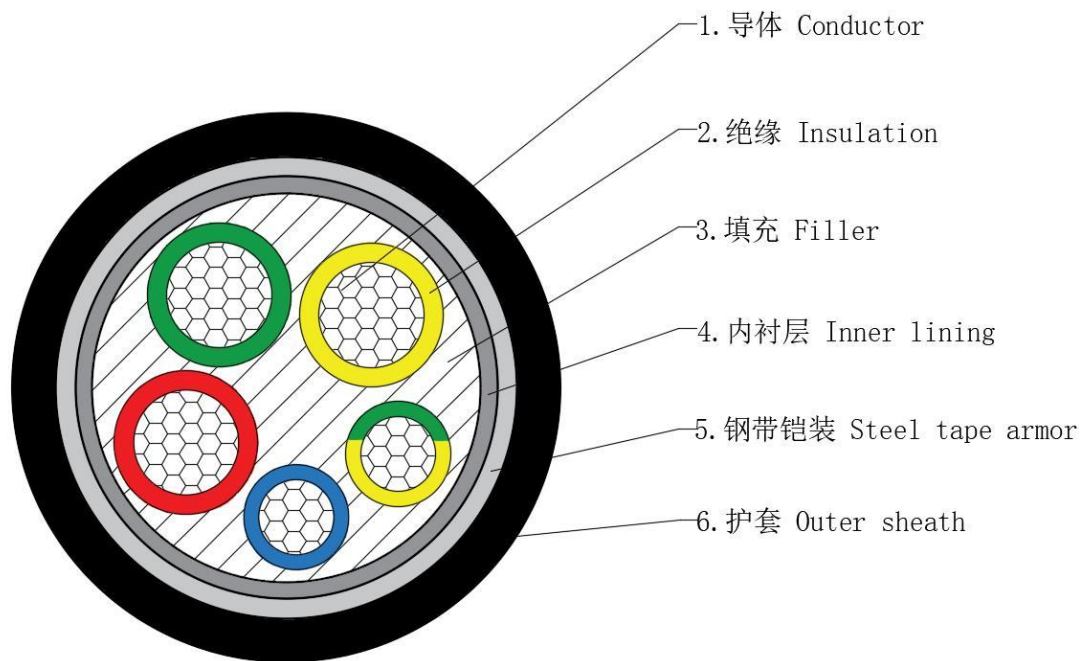
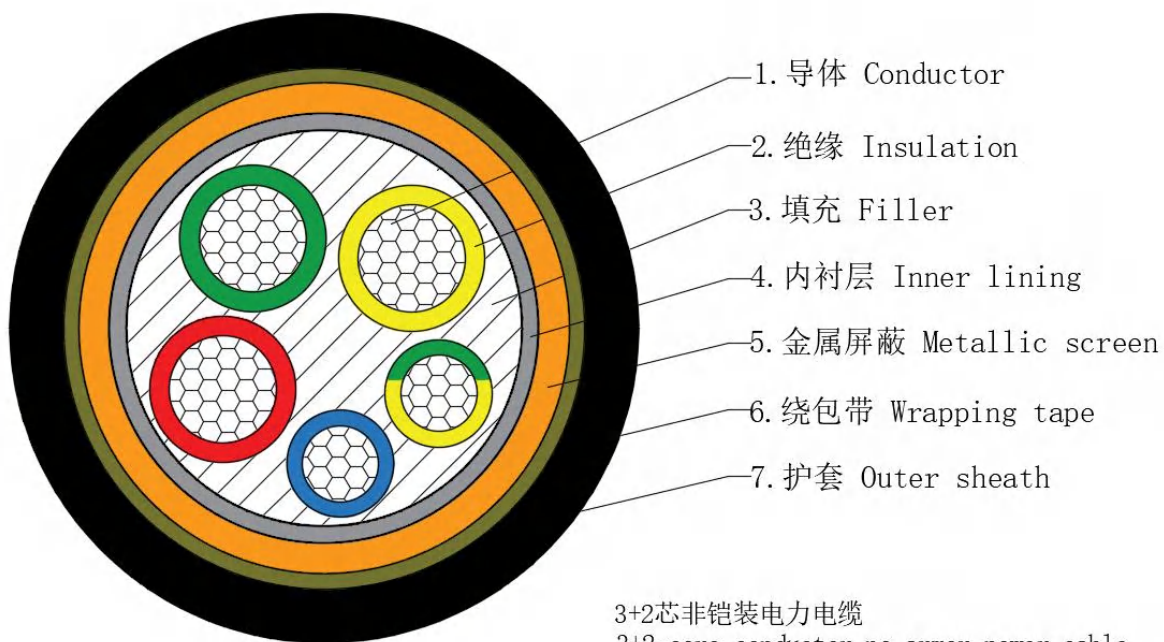


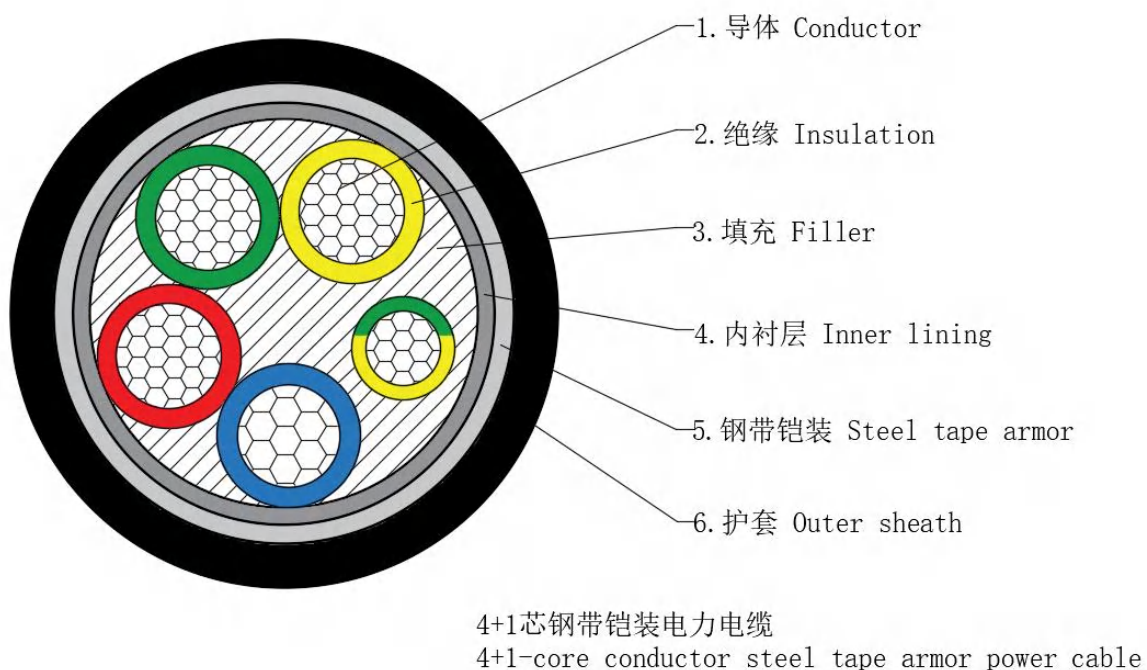
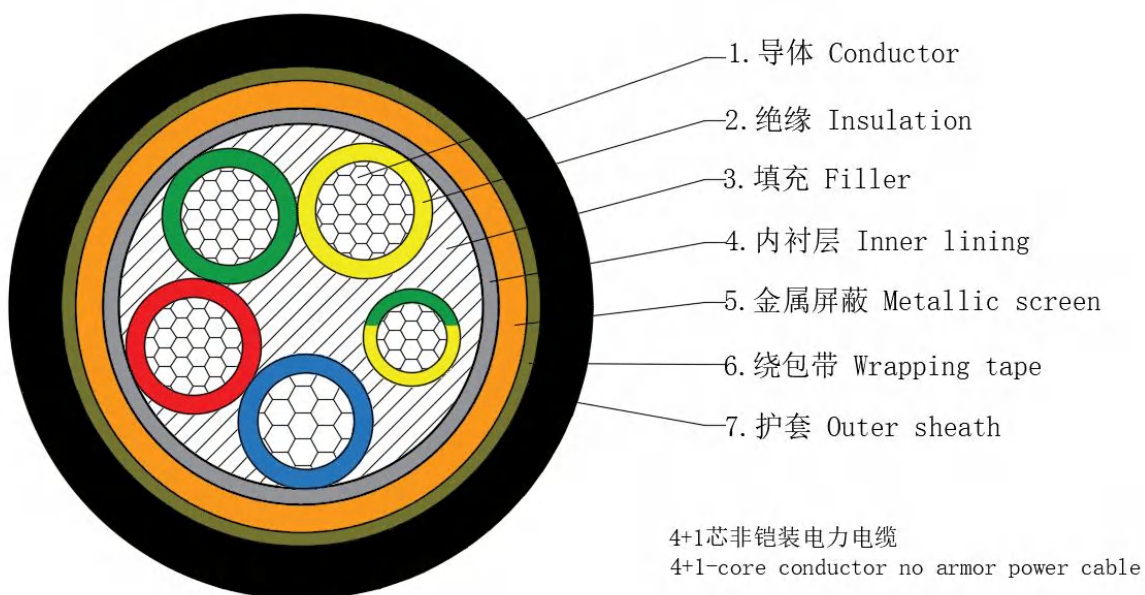
5芯非铠装电力电缆  
5-core conductor no armor power cable



5芯钢带铠装电力电缆  
5-core conductor steel tape armor power cable









### 导体最大直流/交流电阻: Conductor maximum DC/AC resistance:

| 导体标称截面<br>Nominal cross<br>section of<br>conductor<br>mm <sup>2</sup> | 20℃最大直流电阻 20℃ maximum DC<br>resistance<br>Ω/km |             | 90℃最大交流电阻 90℃ maximum AC<br>resistance<br>Ω/km |             |
|-----------------------------------------------------------------------|------------------------------------------------|-------------|------------------------------------------------|-------------|
|                                                                       | 铜 cooper                                       | 铝 aluminium | 铜 cooper                                       | 铝 aluminium |
| 10                                                                    | 1.83                                           | 3.08        | 2.33                                           | 3.9487      |
| 16                                                                    | 1.15                                           | 1.91        | 1.46                                           | 2.4487      |
| 25                                                                    | 0.727                                          | 1.2         | 0.927                                          | 1.5385      |
| 35                                                                    | 0.524                                          | 0.868       | 0.668                                          | 1.1130      |
| 50                                                                    | 0.387                                          | 0.641       | 0.493                                          | 0.8220      |
| 70                                                                    | 0.268                                          | 0.443       | 0.342                                          | 0.5681      |
| 95                                                                    | 0.193                                          | 0.32        | 0.246                                          | 0.4105      |
| 120                                                                   | 0.153                                          | 0.253       | 0.195                                          | 0.3247      |
| 150                                                                   | 0.124                                          | 0.206       | 0.158                                          | 0.2645      |
| 185                                                                   | 0.0991                                         | 0.164       | 0.1272                                         | 0.2108      |
| 240                                                                   | 0.0754                                         | 0.125       | 0.0972                                         | 0.1609      |
| 300                                                                   | 0.0601                                         | 0.100       | 0.0780                                         | 0.1290      |
| 400                                                                   | 0.047                                          | 0.0778      | 0.061                                          | 0.1010      |
| 500                                                                   | 0.0366                                         | 0.0605      | 0.0489                                         | 0.0789      |
| 630                                                                   | 0.0283                                         | 0.0469      | 0.0389                                         | 0.0619      |

### 绝缘标称厚度: Nominal insulation thickness

| 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 1.5 | 2.5 | 4   | 6   | 10  | 16  | 25  | 35  | 50  |
|--------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 标称厚度<br>nominal<br>thickness<br>mm                     | /   | /   | /   | /   | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 70  | 95  | 120 | 150 | 185 | 240 | 300 | 400 | 500 |
| 标称厚度<br>nominal<br>thickness<br>mm                     | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.2 |

### 交流耐压试验: AC voltage withstand test

成品电缆经受交流 50Hz、6500V/5min 的电压试验不击穿。

Finished cable tested by AC 50Hz, 6500V for 5min without breakdown



产品结构尺寸（仅供参考）：Product structure size (for reference only)

导体外径：Outer diameter of conductor：

| 标称截面<br>nominal cross<br>section<br>mm <sup>2</sup>                     | 1.5  | 2.5  | 4    | 6    | 10   | 16   | 25   | 35   | 50   |
|-------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
| 铜导体近似外径<br>cooper<br>conductor<br>approximate<br>outer diameter<br>mm   | 1.36 | 1.74 | 2.21 | 2.71 | 3.9  | 4.8  | 6.0  | 6.9  | 8.1  |
| 铝导体近似外径<br>Aluminum<br>conductor<br>approximate<br>outer diameter<br>mm | /    | /    | /    | /    | 3.9  | 4.8  | 6.0  | 6.9  | 8.1  |
| 标称截面<br>nominal cross<br>section<br>mm <sup>2</sup>                     | 70   | 95   | 120  | 150  | 185  | 240  | 300  | 400  | 500  |
| 铜导体近似外径<br>cooper<br>conductor<br>approximate<br>outer diameter<br>mm   | 9.2  | 10.8 | 12.2 | 13.5 | 15.1 | 17.4 | 19.4 | 21.9 | 26.4 |
| 铝导体近似外径<br>Al conductor<br>approximate<br>outer diameter<br>mm          | 9.7  | 11.4 | 12.1 | 13.3 | 15.0 | 17.2 | 19.2 | 21.8 | 26.4 |

| 芯数 Nos. of<br>cores | 标称截面<br>nominal cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |      |
|---------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------|------|
|                     |                                                     |                                                   |                                                 | YJV                                           | YJLV |
| 1                   | 10                                                  | 1.4                                               | 11.3                                            | 219                                           | 163  |
| 1                   | 16                                                  | 1.4                                               | 12.3                                            | 290                                           | 196  |
| 1                   | 25                                                  | 1.4                                               | 13.3                                            | 379                                           | 237  |
| 1                   | 35                                                  | 1.4                                               | 14.3                                            | 484                                           | 276  |
| 1                   | 50                                                  | 1.5                                               | 15.6                                            | 610                                           | 338  |



| 芯数 Nos. of cores | 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness of sheath<br>mm | 计算外径<br>Calculated outside diameter<br>mm | 电缆计算重量 Calculated weight of cable<br>kg/km |      |
|------------------|--------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|------|
|                  |                                                  |                                             |                                           | YJV                                        | YJLV |
| 1                | 70                                               | 1.5                                         | 17.1                                      | 818                                        | 420  |
| 1                | 95                                               | 1.6                                         | 19.0                                      | 1083                                       | 532  |
| 1                | 120                                              | 1.6                                         | 20.4                                      | 1313                                       | 622  |
| 1                | 150                                              | 1.7                                         | 22.0                                      | 1585                                       | 724  |
| 1                | 185                                              | 1.7                                         | 23.7                                      | 1951                                       | 856  |
| 1                | 240                                              | 1.8                                         | 26.0                                      | 2493                                       | 1060 |
| 1                | 300                                              | 1.9                                         | 28.2                                      | 3073                                       | 1267 |
| 1                | 400                                              | 2.0                                         | 30.9                                      | 3844                                       | 1561 |
| 1                | 500                                              | 2.1                                         | 35.6                                      | 4950                                       | 1932 |
| 2                | 10                                               | 1.8                                         | 20.0                                      | 496                                        | 376  |
| 2                | 16                                               | 1.8                                         | 22.0                                      | 653                                        | 460  |
| 2                | 25                                               | 1.8                                         | 24.0                                      | 849                                        | 562  |
| 2                | 35                                               | 1.8                                         | 26.0                                      | 1079                                       | 635  |
| 2                | 50                                               | 1.9                                         | 28.3                                      | 1352                                       | 780  |
| 2                | 70                                               | 2.0                                         | 31.5                                      | 1816                                       | 946  |
| 2                | 95                                               | 2.1                                         | 35.1                                      | 2390                                       | 1196 |
| 2                | 120                                              | 2.2                                         | 38.0                                      | 2907                                       | 1409 |
| 2                | 150                                              | 2.3                                         | 41.0                                      | 3494                                       | 1637 |
| 2                | 185                                              | 2.4                                         | 44.6                                      | 4303                                       | 1977 |
| 2                | 240                                              | 2.6                                         | 49.9                                      | 5525                                       | 2488 |
| 2                | 300                                              | 2.7                                         | 54.1                                      | 6773                                       | 2950 |
| 2                | 400                                              | 2.9                                         | 59.4                                      | 8459                                       | 3639 |
| 2                | 500                                              | 3.3                                         | 69.2                                      | 10988                                      | 4930 |
| 3                | 10                                               | 1.8                                         | 21.2                                      | 626                                        | 449  |
| 3                | 16                                               | 1.8                                         | 23.4                                      | 845                                        | 555  |
| 3                | 25                                               | 1.8                                         | 25.6                                      | 1119                                       | 683  |
| 3                | 35                                               | 1.9                                         | 27.9                                      | 1455                                       | 805  |
| 3                | 50                                               | 2.0                                         | 30.4                                      | 1837                                       | 992  |
| 3                | 70                                               | 2.1                                         | 33.9                                      | 2495                                       | 1229 |
| 3                | 95                                               | 2.2                                         | 37.7                                      | 3308                                       | 1570 |
| 3                | 120                                              | 2.3                                         | 40.9                                      | 4040                                       | 1862 |
| 3                | 150                                              | 2.4                                         | 44.1                                      | 4875                                       | 2191 |
| 3                | 185                                              | 2.5                                         | 48.5                                      | 6063                                       | 2655 |
| 3                | 240                                              | 2.7                                         | 53.6                                      | 7761                                       | 3306 |
| 3                | 300                                              | 2.8                                         | 58.1                                      | 9553                                       | 3948 |



| 芯数 Nos. of<br>cores | 标称截面<br>nominal cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |       |
|---------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-------|
|                     |                                                     |                                                   |                                                 | YJV                                           | YJLV  |
| 3                   | 400                                                 | 3.1                                               | 64.0                                            | 11991                                         | 4913  |
| 3                   | 500                                                 | 3.3                                               | 74.1                                            | 15500                                         | 6414  |
| 4                   | 10                                                  | 1.8                                               | 23.3                                            | 779                                           | 541   |
| 4                   | 16                                                  | 1.8                                               | 25.7                                            | 1063                                          | 675   |
| 4                   | 25                                                  | 1.9                                               | 28.3                                            | 1433                                          | 849   |
| 4                   | 35                                                  | 2.0                                               | 30.9                                            | 1871                                          | 1004  |
| 4                   | 50                                                  | 2.1                                               | 33.8                                            | 2369                                          | 1244  |
| 4                   | 70                                                  | 2.2                                               | 37.6                                            | 3230                                          | 1552  |
| 4                   | 95                                                  | 2.3                                               | 41.8                                            | 4297                                          | 2009  |
| 4                   | 120                                                 | 2.4                                               | 45.4                                            | 5256                                          | 2385  |
| 4                   | 150                                                 | 2.6                                               | 49.7                                            | 6403                                          | 2836  |
| 4                   | 185                                                 | 2.7                                               | 54.0                                            | 7927                                          | 3400  |
| 4                   | 240                                                 | 2.9                                               | 59.7                                            | 10159                                         | 4244  |
| 4                   | 300                                                 | 3.0                                               | 64.7                                            | 12519                                         | 5072  |
| 4                   | 400                                                 | 3.3                                               | 71.2                                            | 15722                                         | 6318  |
| 4                   | 500                                                 | 3.6                                               | 82.7                                            | 20363                                         | 8247  |
| 5                   | 10                                                  | 1.8                                               | 25.6                                            | 940                                           | 640   |
| 5                   | 16                                                  | 1.8                                               | 28.3                                            | 1290                                          | 805   |
| 5                   | 25                                                  | 2.0                                               | 31.3                                            | 1760                                          | 1029  |
| 5                   | 35                                                  | 2.1                                               | 34.2                                            | 2303                                          | 1221  |
| 5                   | 50                                                  | 2.2                                               | 37.3                                            | 2920                                          | 1511  |
| 5                   | 70                                                  | 2.3                                               | 41.5                                            | 3990                                          | 1889  |
| 5                   | 95                                                  | 2.5                                               | 47.1                                            | 5366                                          | 2503  |
| 5                   | 120                                                 | 2.6                                               | 51.0                                            | 6561                                          | 2973  |
| 5                   | 150                                                 | 2.7                                               | 55.0                                            | 7925                                          | 3466  |
| 5                   | 185                                                 | 2.9                                               | 59.9                                            | 9843                                          | 4181  |
| 5                   | 240                                                 | 3.1                                               | 66.2                                            | 12619                                         | 5219  |
| 5                   | 300                                                 | 3.3                                               | 71.9                                            | 15588                                         | 6275  |
| 5                   | 400                                                 | 3.6                                               | 79.2                                            | 19573                                         | 7814  |
| 5                   | 500                                                 | 3.9                                               | 91.9                                            | 25348                                         | 10202 |
| 3+1                 | 10/6                                                | 1.8                                               | 22.7                                            | 735                                           | /     |
| 3+1                 | 16/10                                               | 1.8                                               | 25.1                                            | 1005                                          | 650   |
| 3+1                 | 25/16                                               | 1.8                                               | 27.6                                            | 1351                                          | 800   |
| 3+1                 | 35/16                                               | 1.9                                               | 29.5                                            | 1678                                          | 934   |
| 3+1                 | 50/25                                               | 2.0                                               | 32.3                                            | 2150                                          | 1141  |



| 芯数 Nos. of cores | 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness of sheath<br>mm | 计算外径<br>Calculated outside diameter<br>mm | 电缆计算重量 Calculated weight of cable<br>kg/km |      |
|------------------|--------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|------|
|                  |                                                  |                                             |                                           | YJV                                        | YJLV |
| 3+1              | 70/35                                            | 2.1                                         | 35.8                                      | 2908                                       | 1453 |
| 3+1              | 95/50                                            | 2.3                                         | 39.9                                      | 3853                                       | 1856 |
| 3+1              | 120/70                                           | 2.4                                         | 43.5                                      | 4801                                       | 2250 |
| 3+1              | 150/70                                           | 2.5                                         | 46.8                                      | 5650                                       | 2597 |
| 3+1              | 185/95                                           | 2.6                                         | 51.1                                      | 7075                                       | 3154 |
| 3+1              | 240/120                                          | 2.8                                         | 56.3                                      | 9003                                       | 3914 |
| 3+1              | 300/150                                          | 2.9                                         | 60.9                                      | 11060                                      | 4677 |
| 4+1              | 10/6                                             | 1.8                                         | 25.0                                      | 895                                        | /    |
| 4+1              | 16/10                                            | 1.8                                         | 27.7                                      | 1232                                       | 777  |
| 4+1              | 25/16                                            | 1.9                                         | 30.6                                      | 1674                                       | 974  |
| 4+1              | 35/16                                            | 2.0                                         | 32.9                                      | 2107                                       | 1148 |
| 4+1              | 50/25                                            | 2.1                                         | 36.0                                      | 2697                                       | 1404 |
| 4+1              | 70/35                                            | 2.3                                         | 40.1                                      | 3680                                       | 1811 |
| 4+1              | 95/50                                            | 2.4                                         | 44.6                                      | 4869                                       | 2301 |
| 4+1              | 120/70                                           | 2.6                                         | 49.3                                      | 6100                                       | 2837 |
| 4+1              | 150/70                                           | 2.7                                         | 52.5                                      | 7187                                       | 3255 |
| 4+1              | 150/95                                           | 2.7                                         | 53.5                                      | 7475                                       | 3386 |
| 4+1              | 185/95                                           | 2.8                                         | 57.3                                      | 8984                                       | 3947 |
| 4+1              | 240/120                                          | 3.0                                         | 63.1                                      | 11455                                      | 4908 |
| 4+1              | 300/150                                          | 3.2                                         | 68.6                                      | 14117                                      | 5900 |
| 3+2              | 10/6                                             | 1.8                                         | 24.2                                      | 852                                        | /    |
| 3+2              | 16/10                                            | 1.8                                         | 27.0                                      | 1176                                       | 759  |
| 3+2              | 25/16                                            | 1.9                                         | 29.8                                      | 1605                                       | 956  |
| 3+2              | 35/16                                            | 2.0                                         | 31.6                                      | 1931                                       | 1088 |
| 3+2              | 50/25                                            | 2.1                                         | 34.7                                      | 2496                                       | 1338 |
| 3+2              | 70/35                                            | 2.2                                         | 38.3                                      | 3365                                       | 1695 |
| 3+2              | 95/50                                            | 2.3                                         | 42.5                                      | 4420                                       | 2137 |
| 3+2              | 120/70                                           | 2.5                                         | 47.3                                      | 5637                                       | 2673 |
| 3+2              | 150/70                                           | 2.6                                         | 49.7                                      | 6450                                       | 2985 |
| 3+2              | 185/95                                           | 2.7                                         | 54.5                                      | 8152                                       | 3661 |
| 3+2              | 240/120                                          | 2.9                                         | 59.9                                      | 10325                                      | 4524 |
| 3+2              | 300/150                                          | 3.1                                         | 65.0                                      | 12687                                      | 5425 |



| 芯数 Nos. of<br>cores | 标称截面<br>nominal cross<br>section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal<br>thickness of<br>sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量 Calculated<br>weight of cable<br>kg/km |                   |
|---------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-------------------|
|                     |                                                     |                                                   |                                                 | YJV62/<br>YJV22                               | YJLV62/<br>YJLV22 |
| 1                   | 10                                                  | 1.4                                               | 13.1                                            | 279                                           | 215               |
| 1                   | 16                                                  | 1.4                                               | 14.1                                            | 354                                           | 252               |
| 1                   | 25                                                  | 1.4                                               | 15.1                                            | 448                                           | 294               |
| 1                   | 35                                                  | 1.5                                               | 16.3                                            | 565                                           | 345               |
| 1                   | 50                                                  | 1.5                                               | 17.4                                            | 689                                           | 399               |
| 1                   | 70                                                  | 1.6                                               | 19.1                                            | 913                                           | 494               |
| 1                   | 95                                                  | 1.6                                               | 20.8                                            | 1178                                          | 603               |
| 1                   | 120                                                 | 1.7                                               | 22.4                                            | 1424                                          | 706               |
| 1                   | 150                                                 | 1.7                                               | 23.8                                            | 1694                                          | 809               |
| 1                   | 185                                                 | 1.8                                               | 25.6                                            | 2079                                          | 956               |
| 1                   | 240                                                 | 1.8                                               | 27.8                                            | 2621                                          | 1157              |
| 1                   | 300                                                 | 1.9                                               | 30.0                                            | 3212                                          | 1372              |
| 1                   | 400                                                 | 2.0                                               | 32.7                                            | 3996                                          | 1670              |
| 1                   | 500                                                 | 2.2                                               | 39.7                                            | 5532                                          | 2515              |
| 2                   | 10                                                  | 1.8                                               | 21.8                                            | 607                                           | 478               |
| 2                   | 16                                                  | 1.8                                               | 23.8                                            | 775                                           | 569               |
| 2                   | 25                                                  | 1.8                                               | 25.8                                            | 982                                           | 671               |
| 2                   | 35                                                  | 1.8                                               | 27.8                                            | 1222                                          | 781               |
| 2                   | 50                                                  | 1.9                                               | 30.2                                            | 1508                                          | 924               |
| 2                   | 70                                                  | 2.0                                               | 33.4                                            | 1989                                          | 1148              |
| 2                   | 95                                                  | 2.2                                               | 39.3                                            | 2989                                          | 1830              |
| 2                   | 120                                                 | 2.3                                               | 42.2                                            | 3554                                          | 2109              |
| 2                   | 150                                                 | 2.4                                               | 45.8                                            | 4190                                          | 2408              |
| 2                   | 185                                                 | 2.5                                               | 49.4                                            | 5058                                          | 2800              |
| 2                   | 240                                                 | 2.7                                               | 54.8                                            | 6368                                          | 3421              |
| 2                   | 300                                                 | 2.8                                               | 58.9                                            | 7686                                          | 3984              |
| 2                   | 400                                                 | 3.0                                               | 64.3                                            | 9461                                          | 4783              |
| 2                   | 500                                                 | 3.2                                               | 73.7                                            | 12114                                         | 6056              |
| 3                   | 10                                                  | 1.8                                               | 23.1                                            | 745                                           | 554               |
| 3                   | 16                                                  | 1.8                                               | 25.3                                            | 974                                           | 668               |
| 3                   | 25                                                  | 1.8                                               | 27.4                                            | 1260                                          | 797               |
| 3                   | 35                                                  | 1.9                                               | 29.8                                            | 1608                                          | 950               |
| 3                   | 50                                                  | 2.0                                               | 32.3                                            | 2005                                          | 1133              |
| 3                   | 70                                                  | 2.2                                               | 38.0                                            | 3074                                          | 1814              |
| 3                   | 95                                                  | 2.3                                               | 41.9                                            | 3950                                          | 2217              |
| 3                   | 120                                                 | 2.4                                               | 45.1                                            | 4734                                          | 2573              |
| 3                   | 150                                                 | 2.5                                               | 48.9                                            | 5621                                          | 2955              |



| 芯数 Nos. of cores | 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness of sheath<br>mm | 计算外径<br>Calculated outside diameter<br>mm | 电缆计算重量 Calculated weight of cable<br>kg/km |                   |
|------------------|--------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------|
|                  |                                                  |                                             |                                           | YJV62/<br>YJV22                            | YJLV62/<br>YJLV22 |
| 3                | 185                                              | 2.6                                         | 53.4                                      | 6882                                       | 3502              |
| 3                | 240                                              | 2.8                                         | 58.5                                      | 8666                                       | 4254              |
| 3                | 300                                              | 2.9                                         | 63.0                                      | 10532                                      | 4990              |
| 3                | 400                                              | 3.2                                         | 68.9                                      | 13069                                      | 6063              |
| 3                | 500                                              | 3.4                                         | 7685                                      | 16772                                      | 7685              |
| 4                | 10                                               | 1.8                                         | 25.2                                      | 908                                        | 655               |
| 4                | 16                                               | 1.8                                         | 27.6                                      | 1204                                       | 798               |
| 4                | 25                                               | 1.9                                         | 30.2                                      | 1588                                       | 972               |
| 4                | 35                                               | 2.0                                         | 32.8                                      | 2041                                       | 1164              |
| 4                | 50                                               | 2.2                                         | 37.9                                      | 2946                                       | 1784              |
| 4                | 70                                               | 2.3                                         | 41.8                                      | 3870                                       | 2193              |
| 4                | 95                                               | 2.4                                         | 46.7                                      | 5007                                       | 2699              |
| 4                | 120                                              | 2.5                                         | 50.2                                      | 6024                                       | 3145              |
| 4                | 150                                              | 2.7                                         | 54.6                                      | 7243                                       | 3690              |
| 4                | 185                                              | 2.8                                         | 58.9                                      | 8838                                       | 4333              |
| 4                | 240                                              | 3.0                                         | 64.5                                      | 11164                                      | 5285              |
| 4                | 300                                              | 3.2                                         | 69.7                                      | 13637                                      | 6251              |
| 4                | 400                                              | 3.4                                         | 76.2                                      | 16922                                      | 7586              |
| 4                | 500                                              | 3.7                                         | 88.8                                      | 22620                                      | 10503             |
| 5                | 10                                               | 1.8                                         | 27.4                                      | 1080                                       | 765               |
| 5                | 16                                               | 1.9                                         | 30.3                                      | 1458                                       | 951               |
| 5                | 25                                               | 2.0                                         | 33.2                                      | 1932                                       | 1162              |
| 5                | 35                                               | 2.2                                         | 38.4                                      | 2887                                       | 1790              |
| 5                | 50                                               | 2.3                                         | 41.5                                      | 3556                                       | 2104              |
| 5                | 70                                               | 2.4                                         | 46.3                                      | 4695                                       | 2601              |
| 5                | 95                                               | 2.6                                         | 51.9                                      | 6161                                       | 3276              |
| 5                | 120                                              | 2.7                                         | 55.9                                      | 7422                                       | 3824              |
| 5                | 150                                              | 2.9                                         | 60.0                                      | 8877                                       | 4438              |
| 5                | 185                                              | 3.0                                         | 64.8                                      | 10852                                      | 5222              |
| 5                | 240                                              | 3.2                                         | 71.1                                      | 13734                                      | 6387              |
| 5                | 300                                              | 3.4                                         | 76.8                                      | 16799                                      | 7569              |
| 5                | 400                                              | 3.7                                         | 85.3                                      | 21709                                      | 10040             |
| 5                | 500                                              | 4.0                                         | 98.1                                      | 27854                                      | 12708             |
| 3+1              | 10/6                                             | 1.8                                         | 24.5                                      | 841                                        | /                 |
| 3+1              | 16/10                                            | 1.8                                         | 27.0                                      | 1118                                       | 762               |
| 3+1              | 25/16                                            | 1.9                                         | 29.6                                      | 1481                                       | 931               |
| 3+1              | 35/16                                            | 2.0                                         | 31.6                                      | 1821                                       | 1076              |



| 芯数 Nos. of cores | 标称截面<br>nominal cross section<br>mm <sup>2</sup> | 护套标称厚度<br>Nominal thickness of sheath<br>mm | 计算外径<br>Calculated outside diameter<br>mm | 电缆计算重量 Calculated weight of cable<br>kg/km |                   |
|------------------|--------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------|
|                  |                                                  |                                             |                                           | YJV62/<br>YJV22                            | YJLV62/<br>YJLV22 |
| 3+1              | 50/25                                            | 2.1                                         | 34.4                                      | 2300                                       | 1292              |
| 3+1              | 70/35                                            | 2.2                                         | 40.0                                      | 3470                                       | 2014              |
| 3+1              | 95/50                                            | 2.4                                         | 44.7                                      | 4471                                       | 2473              |
| 3+1              | 120/70                                           | 2.5                                         | 48.3                                      | 5463                                       | 2912              |
| 3+1              | 150/70                                           | 2.6                                         | 51.7                                      | 6365                                       | 3313              |
| 3+1              | 185/95                                           | 2.7                                         | 56.0                                      | 7842                                       | 3921              |
| 3+1              | 240/120                                          | 2.9                                         | 61.2                                      | 9838                                       | 4749              |
| 3+1              | 300/150                                          | 3.0                                         | 65.8                                      | 11952                                      | 5570              |
| 4+1              | 10/6                                             | 1.8                                         | 26.9                                      | 1013                                       | /                 |
| 4+1              | 16/10                                            | 1.9                                         | 29.8                                      | 1370                                       | 915               |
| 4+1              | 25/16                                            | 2.0                                         | 32.7                                      | 1822                                       | 1122              |
| 4+1              | 35/16                                            | 2.1                                         | 35.0                                      | 2269                                       | 1309              |
| 4+1              | 50/25                                            | 2.2                                         | 40.2                                      | 3270                                       | 1976              |
| 4+1              | 70/35                                            | 2.4                                         | 44.9                                      | 4311                                       | 2442              |
| 4+1              | 95/50                                            | 2.5                                         | 49.4                                      | 5563                                       | 2995              |
| 4+1              | 120/70                                           | 2.7                                         | 54.2                                      | 6857                                       | 3594              |
| 4+1              | 150/70                                           | 2.8                                         | 57.4                                      | 7997                                       | 4064              |
| 4+1              | 150/95                                           | 2.8                                         | 58.3                                      | 8280                                       | 4191              |
| 4+1              | 185/95                                           | 2.9                                         | 62.2                                      | 9853                                       | 4816              |
| 4+1              | 240/120                                          | 3.1                                         | 68.0                                      | 12404                                      | 5857              |
| 4+1              | 300/150                                          | 3.3                                         | 73.5                                      | 15137                                      | 6921              |
| 3+2              | 10/6                                             | 1.8                                         | 26.3                                      | 958                                        | /                 |
| 3+2              | 16/10                                            | 1.9                                         | 29.2                                      | 1297                                       | 880               |
| 3+2              | 25/16                                            | 2.0                                         | 32.1                                      | 1730                                       | 1082              |
| 3+2              | 35/16                                            | 2.0                                         | 33.7                                      | 2053                                       | 1211              |
| 3+2              | 50/25                                            | 2.2                                         | 39.1                                      | 3032                                       | 1865              |
| 3+2              | 70/35                                            | 2.3                                         | 42.8                                      | 3937                                       | 2267              |
| 3+2              | 95/50                                            | 2.5                                         | 47.7                                      | 5059                                       | 2777              |
| 3+2              | 120/70                                           | 2.6                                         | 52.3                                      | 6308                                       | 3345              |
| 3+2              | 150/70                                           | 2.7                                         | 54.8                                      | 7163                                       | 3698              |
| 3+2              | 185/95                                           | 2.8                                         | 59.5                                      | 8907                                       | 4415              |
| 3+2              | 240/120                                          | 3.0                                         | 65.0                                      | 11136                                      | 5335              |
| 3+2              | 300/150                                          | 3.2                                         | 70.1                                      | 13546                                      | 6284              |



载流量(包含修正系数): Current carrying capacity (including correction factor)

铜芯电力电缆载流量 (A) copper core power cable Carrying capacity (A)

| 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored |            |            |            |                   |            | 钢带铠装型电缆 Steel tape armoured<br>type cable |            |               |            |                   |            |
|--------------------------------------------------------|-------------------|------------|------------|------------|-------------------|------------|-------------------------------------------|------------|---------------|------------|-------------------|------------|
|                                                        | 单芯 single<br>core |            | 二芯 2 cores |            | 三-五芯 3-5<br>cores |            | 单芯 single<br>core                         |            | 二芯 2<br>cores |            | 三-五芯 3-5<br>cores |            |
|                                                        | 空气<br>air         | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air         | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air     | 土壤<br>soil | 空气<br>air         | 土壤<br>soil |
| 10                                                     | 80                | 115        | 90         | 96         | 75                | 80         | 74                                        | 86         | 78            | 96         | 65                | 80         |
| 16                                                     | 105               | 150        | 114        | 126        | 95                | 105        | 103                                       | 119        | 108           | 132        | 90                | 110        |
| 25                                                     | 135               | 190        | 144        | 162        | 120               | 135        | 131                                       | 151        | 138           | 168        | 115               | 140        |
| 35                                                     | 165               | 230        | 174        | 198        | 145               | 165        | 165                                       | 178        | 174           | 198        | 145               | 165        |
| 50                                                     | 200               | 275        | 210        | 234        | 175               | 195        | 194                                       | 211        | 204           | 234        | 170               | 195        |
| 70                                                     | 250               | 335        | 258        | 288        | 215               | 240        | 239                                       | 259        | 252           | 288        | 210               | 240        |
| 95                                                     | 305               | 400        | 318        | 348        | 265               | 290        | 302                                       | 308        | 318           | 342        | 265               | 285        |
| 120                                                    | 355               | 465        | 366        | 390        | 305               | 325        | 342                                       | 351        | 360           | 390        | 300               | 325        |
| 150                                                    | 405               | 525        | 414        | 444        | 345               | 370        | 388                                       | 400        | 408           | 444        | 340               | 370        |
| 185                                                    | 465               | 600        | 480        | 498        | 400               | 415        | 445                                       | 448        | 468           | 498        | 390               | 415        |
| 240                                                    | 550               | 695        | 564        | 582        | 470               | 485        | 519                                       | 518        | 546           | 576        | 455               | 480        |
| 300                                                    | 635               | 785        | 642        | 648        | 535               | 540        | 593                                       | 589        | 624           | 654        | 520               | 545        |
| 400                                                    | 745               | 895        | 744        | 744        | 620               | 620        | 684                                       | 664        | 720           | 738        | 600               | 615        |
| 500                                                    | 855               | 1010       | 852        | 852        | 710               | 710        | 781                                       | 751        | 822           | 834        | 685               | 695        |
| 630                                                    | 980               | 1140       | 972        | 972        | 810               | 810        | 889                                       | 848        | 936           | 942        | 780               | 785        |

铝芯电力电缆载流量 (A) Aluminum core power cable Carrying capacity (A)

| 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored |            |            |            |                   |            | 钢带铠装型电缆 Steel tape armoured type<br>cable |            |               |            |                   |            |
|--------------------------------------------------------|-------------------|------------|------------|------------|-------------------|------------|-------------------------------------------|------------|---------------|------------|-------------------|------------|
|                                                        | 单芯 single<br>core |            | 二芯 2 cores |            | 三-五芯 3-5<br>cores |            | 单芯 single<br>core                         |            | 二芯 2<br>cores |            | 三-五芯 3-5<br>cores |            |
|                                                        | 空气<br>air         | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air         | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air     | 土壤<br>soil | 空气<br>air         | 土壤<br>soil |
| 10                                                     | 55                | 85         | 70         | 78         | 58                | 65         | 51                                        | 76         | 54            | 84         | 45                | 70         |
| 16                                                     | 80                | 110        | 88         | 102        | 73                | 85         | 74                                        | 92         | 78            | 102        | 65                | 85         |
| 25                                                     | 105               | 145        | 112        | 126        | 93                | 105        | 97                                        | 113        | 102           | 126        | 85                | 105        |
| 35                                                     | 130               | 175        | 132        | 150        | 110               | 125        | 125                                       | 135        | 132           | 150        | 110               | 125        |
| 50                                                     | 155               | 210        | 162        | 180        | 135               | 150        | 148                                       | 162        | 156           | 180        | 130               | 150        |
| 70                                                     | 195               | 260        | 204        | 222        | 170               | 185        | 188                                       | 200        | 198           | 222        | 165               | 185        |
| 95                                                     | 235               | 315        | 246        | 270        | 205               | 225        | 228                                       | 238        | 240           | 264        | 200               | 220        |
| 120                                                    | 275               | 360        | 282        | 306        | 235               | 255        | 268                                       | 275        | 282           | 306        | 235               | 255        |
| 150                                                    | 315               | 410        | 324        | 342        | 270               | 285        | 302                                       | 308        | 318           | 342        | 265               | 285        |



| 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored |         |            |         |                |         | 钢带铠装型电缆 Steel tape armoured type cable |         |            |         |                |         |
|--------------------------------------------------------|-------------------|---------|------------|---------|----------------|---------|----------------------------------------|---------|------------|---------|----------------|---------|
|                                                        | 单芯 single core    |         | 二芯 2 cores |         | 三-五芯 3-5 cores |         | 单芯 single core                         |         | 二芯 2 cores |         | 三-五芯 3-5 cores |         |
|                                                        | 空气 air            | 土壤 soil | 空气 air     | 土壤 soil | 空气 air         | 土壤 soil | 空气 air                                 | 土壤 soil | 空气 air     | 土壤 soil | 空气 air         | 土壤 soil |
| 185                                                    | 360               | 465     | 372        | 390     | 310            | 325     | 348                                    | 351     | 366        | 390     | 305            | 325     |
| 240                                                    | 430               | 540     | 438        | 456     | 365            | 380     | 405                                    | 405     | 426        | 450     | 355            | 375     |
| 300                                                    | 495               | 615     | 504        | 510     | 420            | 425     | 467                                    | 459     | 492        | 510     | 410            | 425     |
| 400                                                    | 585               | 705     | 594        | 588     | 495            | 490     | 542                                    | 524     | 570        | 582     | 475            | 485     |
| 500                                                    | 685               | 810     | 702        | 690     | 585            | 575     | 627                                    | 605     | 660        | 672     | 550            | 560     |
| 630                                                    | 800               | 920     | 834        | 822     | 695            | 685     | 730                                    | 702     | 768        | 780     | 640            | 650     |

注 note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0、埋地深度 700mm

air temperature 40℃; soil temperature 25℃, thermal resistance coefficient 1.0, and the buried depth 700mm

环境温度不同时的载流量修正系数表 Table of correction coefficient of carrying current at different ambient temperature

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 空气中环境温度℃ Ambient temperature in the air |      |      |      |      |      |      |      |
|------------------------------------------------------|-----------------------------------------|------|------|------|------|------|------|------|
|                                                      | 20                                      | 25   | 30   | 35   | 40   | 45   | 50   | 55   |
| 90                                                   | 1.23                                    | 1.17 | 1.12 | 1.06 | 1.00 | 0.94 | 0.87 | 0.81 |

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 土壤中环境温度℃ Ambient temperature in soil |      |      |      |      |      |      |  |
|------------------------------------------------------|--------------------------------------|------|------|------|------|------|------|--|
|                                                      | 10                                   | 15   | 20   | 25   | 30   | 35   | 40   |  |
| 90                                                   | 1.11                                 | 1.07 | 1.04 | 1.00 | 0.96 | 0.92 | 0.88 |  |

不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

| 热阻系数 thermal resistivity<br>$\rho_w = (K \cdot m/W)$ | 1.0 | 1.2  | 1.5  | 2.0  | 2.5  |
|------------------------------------------------------|-----|------|------|------|------|
| 校正系数 correction coefficient                          | 1   | 0.93 | 0.85 | 0.75 | 0.67 |



### 电缆安装时的最小弯曲半径： Minimum bending radius during cable installation:

| 项目 Item                                                                                       | 单芯电缆 single core cable |              | 三芯电缆 3 cores cable |              |
|-----------------------------------------------------------------------------------------------|------------------------|--------------|--------------------|--------------|
|                                                                                               | 无铠装 non-armored        | 有铠装 armoring | 无铠装 non-armored    | 有铠装 armoring |
| 安装时的电缆<br>最小弯曲半径 Minimum<br>bending radius during<br>installation                             | 20D                    | 15D          | 15D                | 12D          |
| 靠近连接盒和终端时<br>电缆最小弯曲半径<br>Minimum bending radius<br>close to the<br>connectors and<br>terminal | 15D                    | 12D          | 12D                | 10D          |
| 注 note: D 为电缆外径 D is the outer diameter of the cable                                          |                        |              |                    |              |



### 电缆装卸、运输、敷设要求: requirements during cable loading and unloading, transportation, laying:

1、确认收货前应对电缆外观进行检查, 确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象, 如有异常应及时联系我司, 否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirements.

2、电缆吊装、运输、敷设过程要妥善保护, 电缆本体及两端封帽要确保无破损, 防止雨水或其它有害气体、液体进入电缆内部, 导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于  $45^{\circ}$  的弯折, 防止光纤折断, 难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥, 避免长时间暴露于露天或潮湿地方, 低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下, 以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前, 应核对电缆型号、规格、额定电压是否正确, 检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中, 如因天气原因暂停敷设, 电缆要放置于安全、干燥处, 防止受到外力撞击, 如电缆封帽已去掉, 电缆端头应做好保护措施, 防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

6、敷设时遇有中间接头、终端接头以及弯道处, 应根据实际情况适当留有余量, 以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

7、电缆敷设过程中, 为了防止弯曲过度而损坏, 电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定: In the process of cable laying, in order to prevent excessive bending and



damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

8、按国家标准要求, 电缆敷设环境温度应不低于  $0^{\circ}\text{C}$ , 寒冷季节敷设电缆时, 敷设现场的温度低于  $0^{\circ}\text{C}$  时, 应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than  $0^{\circ}\text{C}$ . When laying cables in cold season, when the temperature of the laying site is lower than  $0^{\circ}\text{C}$ , the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放, 切不可反方向滚动, 以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时, 支架设地点应选好, 以敷设方便为准, 一般应在电缆起止点附近为宜, 应注意电缆轴的转动方向, 电缆引出端应在轴的上方, 见图二: When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:

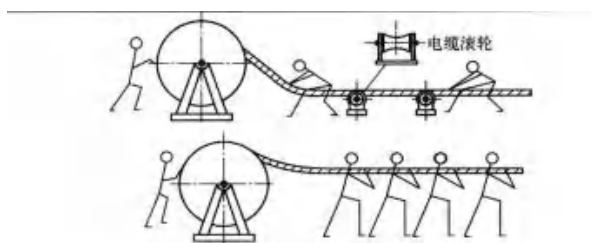


图 一 Figure 1

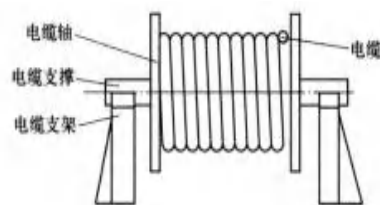


图 二 Figure 2

11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设 (符合国标 GB50618-2016)。The cable can be laid by manual pulling as shown in Figure 1 or mechanical pulling as shown in Figure 3 (in accordance with the national standard GB50618-2016).



图 三 Figure 3



### 三、额定电压 6-35kV 铜(铝)芯交联聚乙烯绝缘电力电缆 Rated voltage 6-35kV copper (aluminum) core crosslinked polyethylene insulated power cable

#### 依据标准: Standard

GB / T 12706.2 额定电压 1kV ( $U_m=1.2\text{kV}$ ) 到 35kV ( $U_m=40.5\text{kV}$ ) 挤包绝缘电力电缆及附件

第 2 部分: 额定电压 6kV ( $U_m=7.2\text{kV}$ ) 和 30kV ( $U_m=36\text{kV}$ ) 电缆

Rated voltage 1kV ( $U_m=1.2\text{kV}$ ) to 35kV ( $U_m=40.5\text{kV}$ ) extruded insulated power  
cables and accessories

Part 2: Cables with rated voltages of 6kV ( $U_m=7.2\text{kV}$ ) and 30kV ( $U_m=36\text{kV}$ )

GB / T 12706.3 额定电压 1kV ( $U_m=1.2\text{kV}$ ) 到 35kV ( $U_m=40.5\text{kV}$ ) 挤包绝缘电力电缆及附件

第 3 部分: 额定电压 35kV ( $U_m=40.5\text{kV}$ ) 电缆

Rated voltage 1kV ( $U_m=1.2\text{kV}$ ) to 35kV ( $U_m=40.5\text{kV}$ ) extruded insulated power  
cables and accessories

Part 3: Cables with a rated voltage of 35kV ( $U_m=40.5\text{kV}$ )

#### 适用范围: scope of applications

本产品适用于额定电压 6-35kV 电力输电配电, 交联聚乙烯电力电缆具有优良的电性能, 良好的耐热性能, 且具有重量轻、结构简单、使用方面, 耐化学腐蚀和敷设不受落差限制等优点。

This product is suitable for rated voltage 6-35kV power transmission and distribution, crosslinked polyethylene power cable has excellent electrical performance, good heat resistance, and has the advantages of light weight, simple structure, chemical corrosion resistance and laying is not limited by the drop.

#### 使用特性: operating characteristics

额定电压  $U_0/U$  为 3.6/6kV、6/6kV、6/10kV、8.7/15kV、12/20kV、18/20kV、18/30kV、26/35kV

The rated voltage  $U_0/U$  is 3.6/6kV, 6/6kV, 6/10kV, 8.7/15kV, 12/20kV, 18/20kV, 18/30kV, 26/35kV

最高系统电压  $U_m$  为 7.2kV、7.2kV、12kV、17.5kV、24kV、24kV、36kV、42kV

The maximum system voltage  $U_m$  is 7.2kV, 7.2kV, 12kV, 17.5kV, 24kV, 24kV, 36kV, 42kV

电缆导体的最高允许工作温度为 90℃

The maximum allowable operating temperature of the conductor is 90℃

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℃

The maximum short-circuit temperature of the conductor shall not exceed 250℃ (5s maximum duration)

电缆敷设时环境温度应不低于 0℃

The ambient temperature should not be lower than 0℃ when the cable is laid



## 型号规格: type and specification

| 型号 Type |        | 芯数<br>Nos. of<br>cores | 名称 Name                                                                                                                                               |
|---------|--------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| YJV     | YJLV   | 1、3                    | 铜(铝)芯交联聚乙烯绝缘聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated PVC sheathed power cable                                             |
| YJY     | YJLY   | 1、3                    | 铜(铝)芯交联聚乙烯绝缘聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulation polyethylene sheathed power cable                                    |
| YJV62   | YJLV62 | 1                      | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal tape armoured PVC sheathed power cable    |
| YJY63   | YJLY63 | 1                      | 铜(铝)芯交联聚乙烯绝缘非磁性金属带铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic metal armoured polyethylene sheathed power cable |
| YJV22   | YJLV22 | 3                      | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured PVC sheathed power cable                     |
| YJY23   | YJLY23 | 3                      | 铜(铝)芯交联聚乙烯绝缘钢带铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel tape armoured polyethylene sheathed power cable             |
| YJV72   | YJLV72 | 1                      | 铜(铝)芯交联聚乙烯绝缘非磁性金属丝铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic wire armored PVC sheathed power cable           |
| YJY73   | YJLY73 | 1                      | 铜(铝)芯交联聚乙烯绝缘非磁性金属丝铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated non-magnetic wire armored polyethylene sheathed power cable   |
| YJV32   | YJLV32 | 3                      | 铜(铝)芯交联聚乙烯绝缘钢丝铠装聚氯乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel wire armouring PVC sheathed power cable                    |
| YJY33   | YJLY33 | 3                      | 铜(铝)芯交联聚乙烯绝缘钢丝铠装聚乙烯护套电力电缆 Copper (aluminum) core crosslinked polyethylene insulated steel wire armouring polyethylene sheathed power cable            |

备注: note

可根据用户需求, 生产各类阻燃、低烟无卤、耐寒电力电缆; all kinds of flame-retardant, low-smoke halogen-free, cold-resistant power cables are available according to requirements.

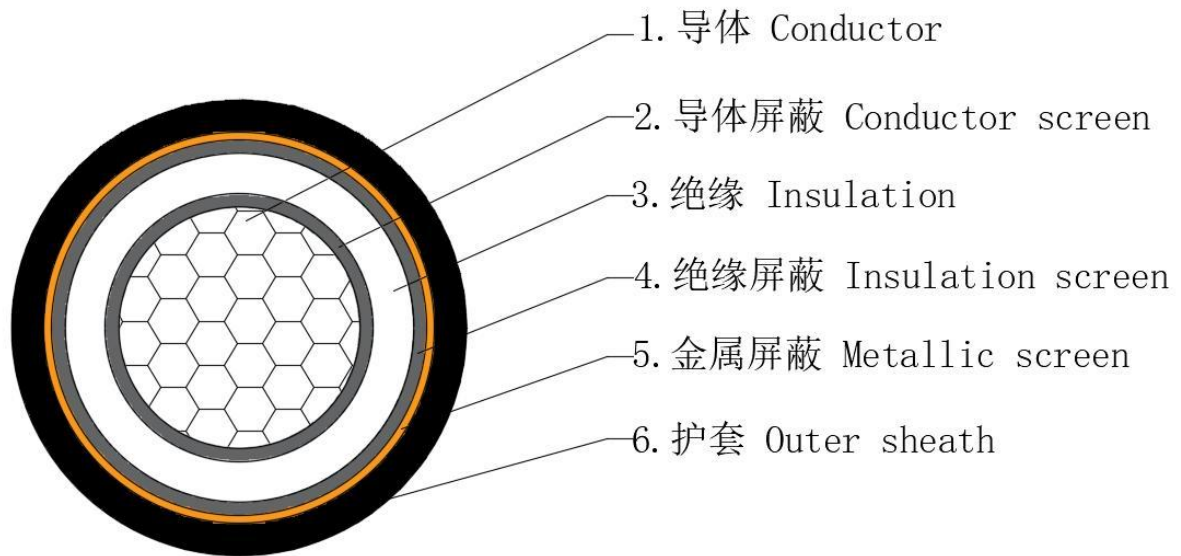
阻燃电缆可在型号中加阻燃特性符号, 如 Z, ZC, ZB, ZA; Flame retardant cable model has characteristic symbol, such as Z, ZC, ZB, ZA;

低烟无卤可在型号中加无卤低烟特性符号, 如 WD; Low-smoke halogen-free model has characteristic symbol, such as WD;

耐寒电缆可在型号中加耐寒特性符号, 如 HD。Cold resistance cable model has characteristic symbol, such as HD.

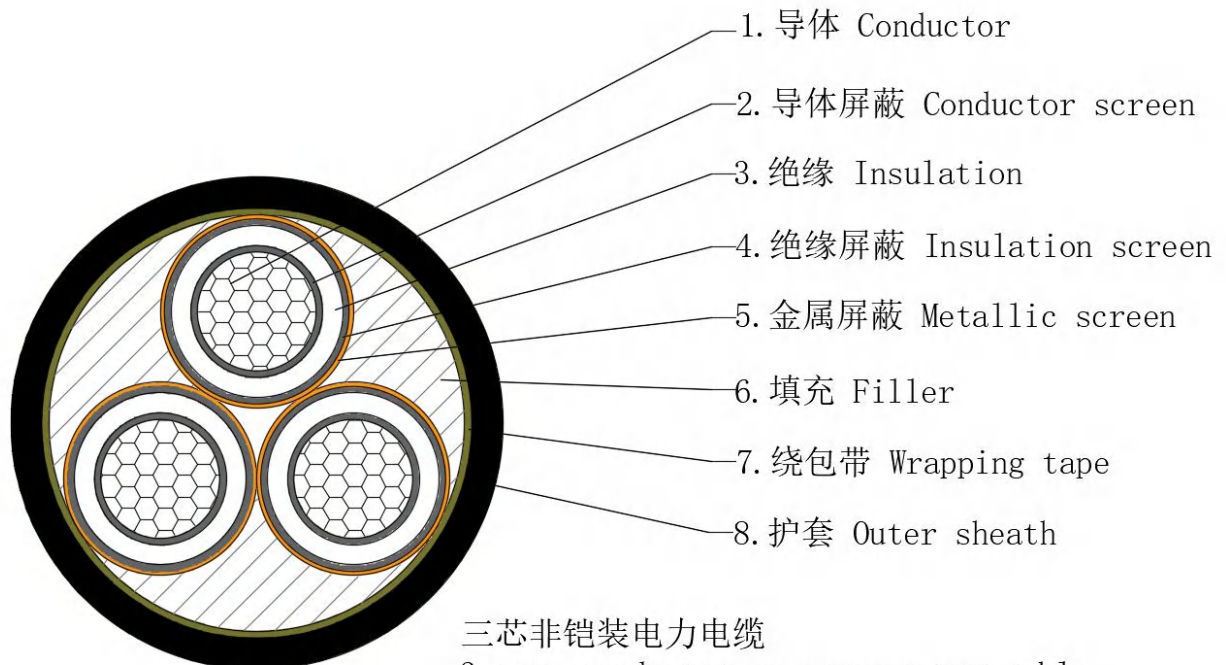


结构示意图: structural illustration



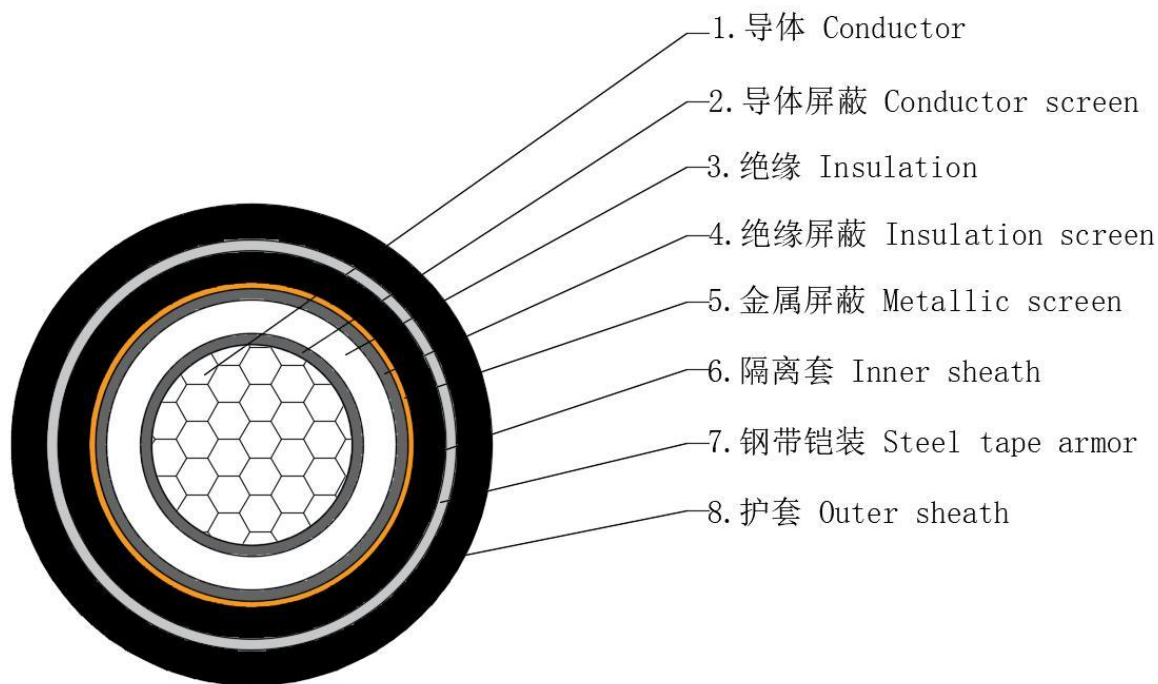
单芯非铠装电力电缆

1-core conductor no armor power cable



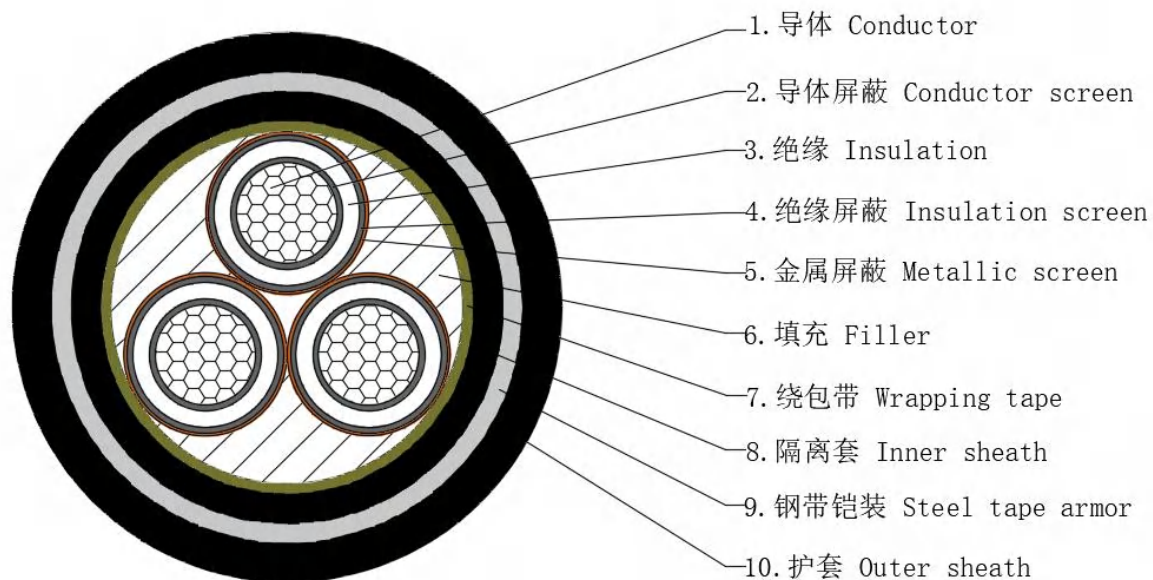
三芯非铠装电力电缆

3-core conductor no armor power cable



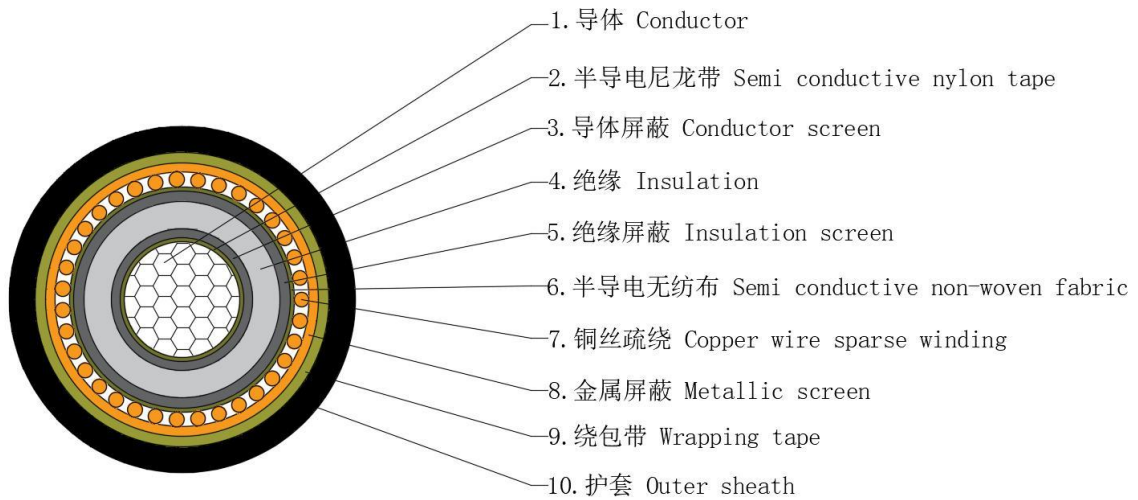
单芯钢带铠装电力电缆

1-core conductor steel tape armor power cable

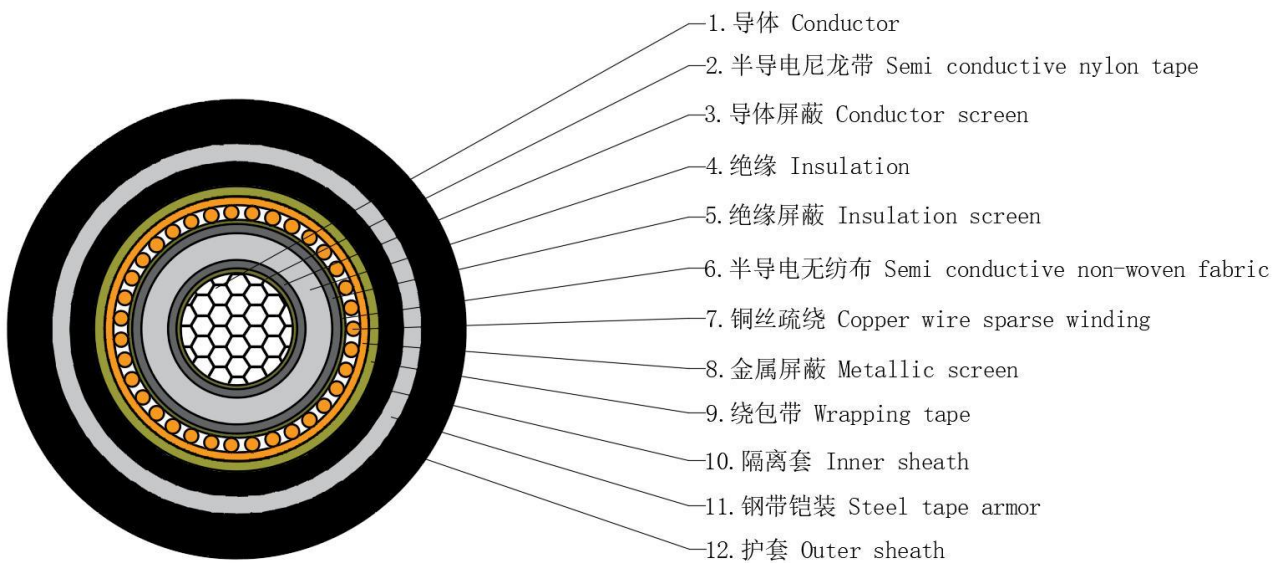


三芯钢带铠装电力电缆

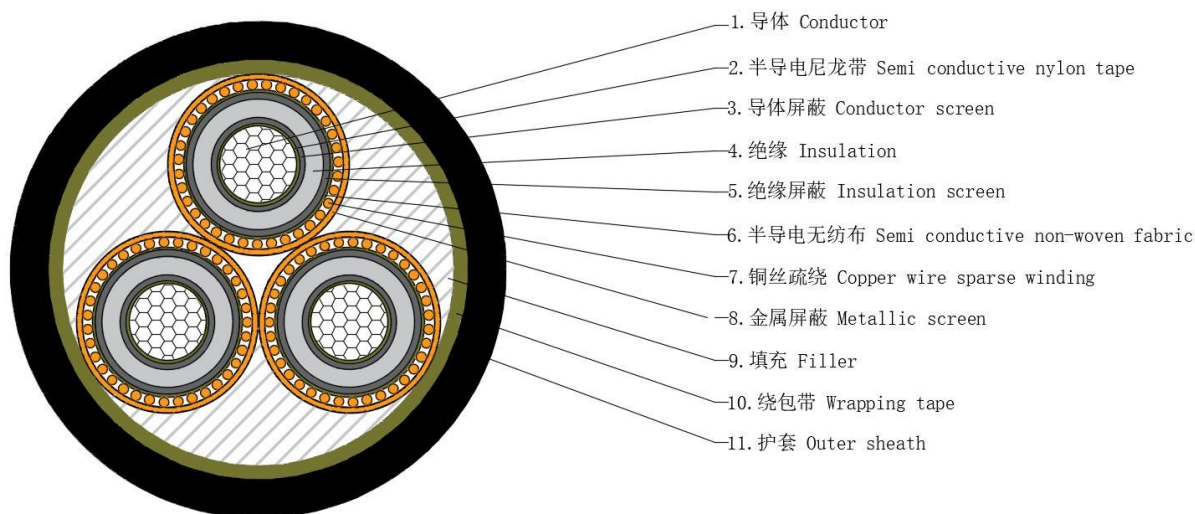
3-core conductor steel tape armor power cable



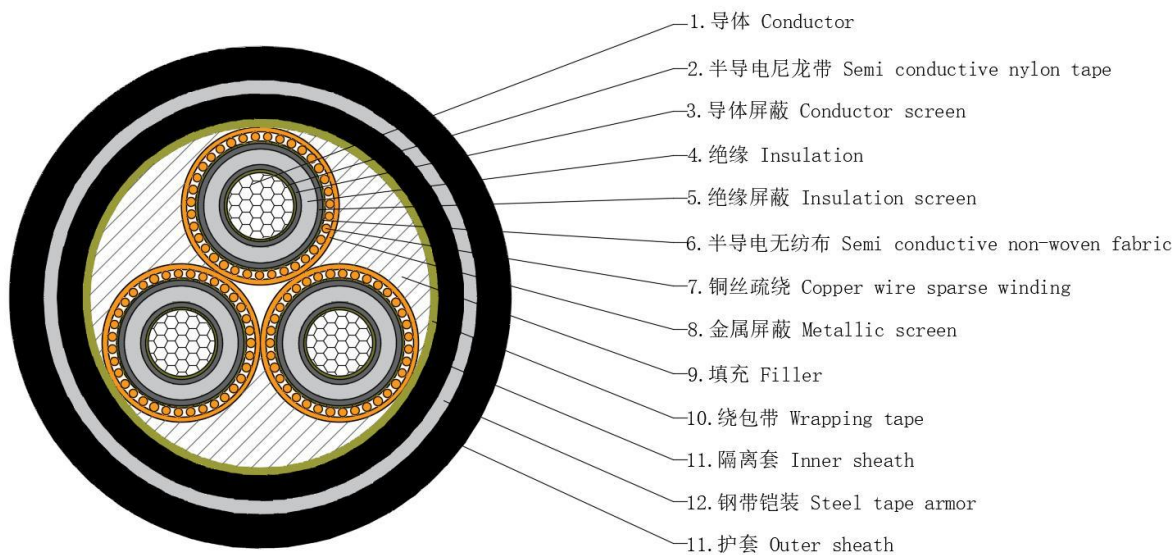
单芯非铠装电力电缆  
1-core conductor no armor power cable



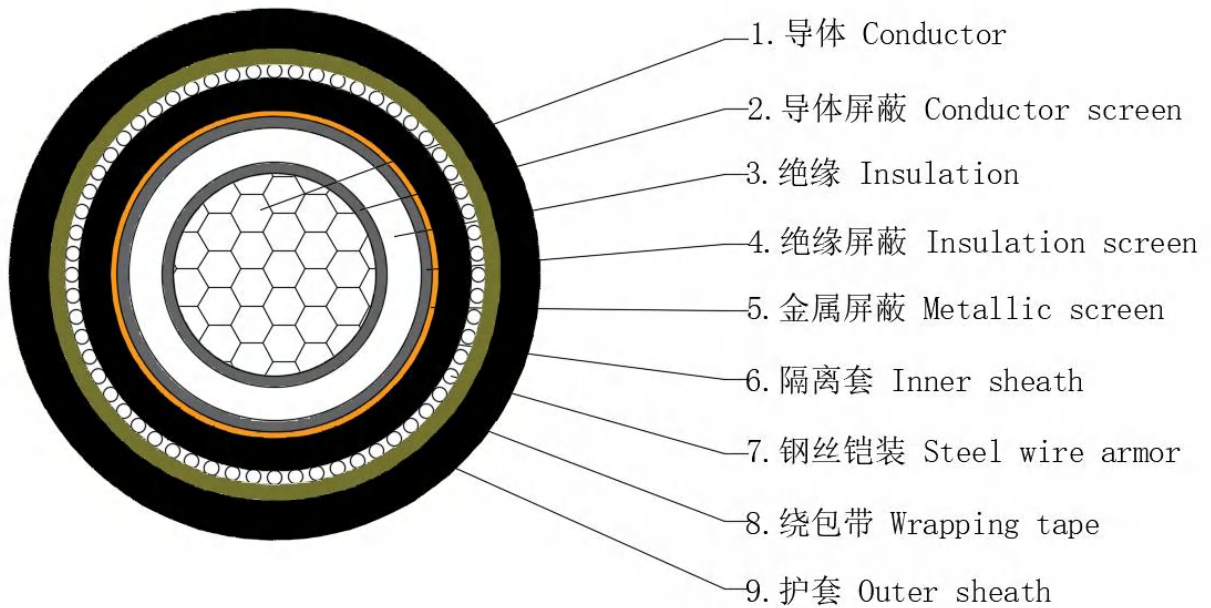
单芯钢带铠装电力电缆  
1-core conductor steel tape armor power cable



三芯非铠装电力电缆  
3-core conductor no armor power cable

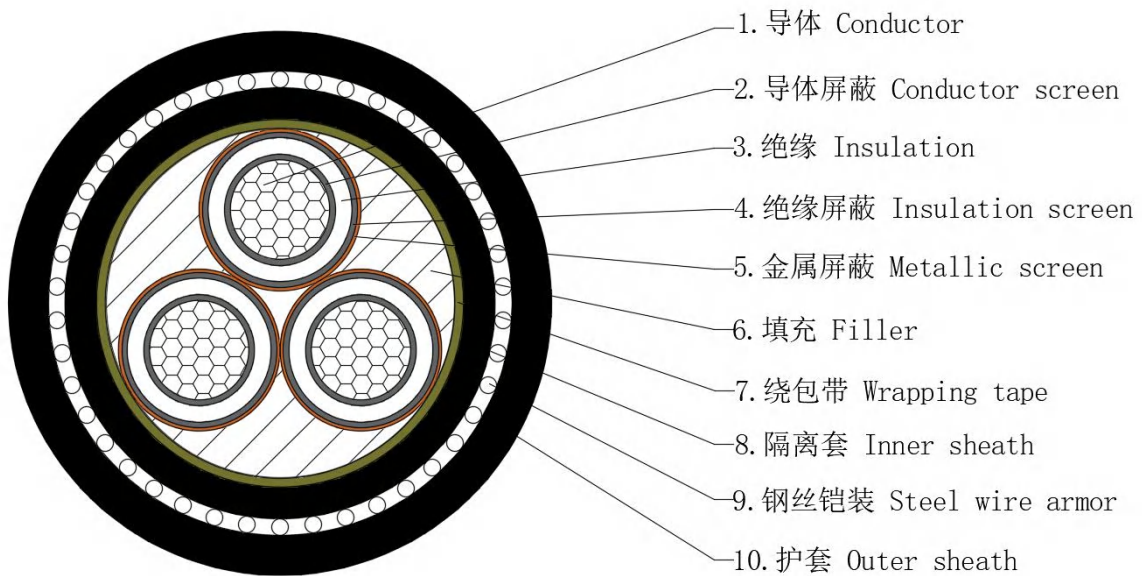


三芯钢带铠装电力电缆  
3-core conductor steel tape armor power cable



单芯钢丝铠装电力电缆

1-core conductor steel wire armor power cable



三芯钢丝铠装电力电缆

3-core conductor steel wire armor power cable


**导体最大直流/交流电阻: Conductor maximum DC/AC resistance:**

| 导体标称截面<br>Nominal cross<br>section of<br>conductor<br>mm <sup>2</sup> | 20℃最大直流电阻 20℃ maximum DC<br>resistance<br>Ω/km |             | 90℃最大交流电阻 90℃ maximum AC<br>resistance<br>Ω/km |             |
|-----------------------------------------------------------------------|------------------------------------------------|-------------|------------------------------------------------|-------------|
|                                                                       | 铜 cooper                                       | 铝 aluminium | 铜 cooper                                       | 铝 aluminium |
| 10                                                                    | 1.83                                           | 3.08        | 2.33                                           | 3.9487      |
| 16                                                                    | 1.15                                           | 1.91        | 1.46                                           | 2.4487      |
| 25                                                                    | 0.727                                          | 1.2         | 0.927                                          | 1.5385      |
| 35                                                                    | 0.524                                          | 0.868       | 0.668                                          | 1.1130      |
| 50                                                                    | 0.387                                          | 0.641       | 0.493                                          | 0.8220      |
| 70                                                                    | 0.268                                          | 0.443       | 0.342                                          | 0.5681      |
| 95                                                                    | 0.193                                          | 0.32        | 0.246                                          | 0.4105      |
| 120                                                                   | 0.153                                          | 0.253       | 0.195                                          | 0.3247      |
| 150                                                                   | 0.124                                          | 0.206       | 0.158                                          | 0.2645      |
| 185                                                                   | 0.0991                                         | 0.164       | 0.1272                                         | 0.2108      |
| 240                                                                   | 0.0754                                         | 0.125       | 0.0972                                         | 0.1609      |
| 300                                                                   | 0.0601                                         | 0.100       | 0.0780                                         | 0.1290      |
| 400                                                                   | 0.047                                          | 0.0778      | 0.061                                          | 0.1010      |
| 500                                                                   | 0.0366                                         | 0.0605      | 0.0489                                         | 0.0789      |
| 630                                                                   | 0.0283                                         | 0.0469      | 0.0389                                         | 0.0619      |

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

| 标称截面 Nominal<br>cross section of<br>conductor<br>mm <sup>2</sup> | 电压等级 voltage classes |                 |                      |         |                    |         |         |
|------------------------------------------------------------------|----------------------|-----------------|----------------------|---------|--------------------|---------|---------|
|                                                                  | 3.6/6kV              | 6/6kV<br>6/10kV | 8.7/10kV<br>8.7/15kV | 12/20kV | 18/20kV<br>18/30kV | 21/35kV | 26/35kV |
| 10                                                               | 2.5                  | —               | —                    | —       | —                  | —       | —       |
| 16                                                               | 2.5                  | 3.4             | —                    | —       | —                  | —       | —       |
| 25                                                               | 2.5                  | 3.4             | 4.5                  | —       | —                  | —       | —       |
| 35                                                               | 2.5                  | 3.4             | 4.5                  | 5.5     | —                  | —       | —       |
| 50                                                               | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 70                                                               | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 95                                                               | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 120                                                              | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 150                                                              | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 185                                                              | 2.5                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 240                                                              | 2.6                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 300                                                              | 2.8                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 400                                                              | 3.0                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 500                                                              | 3.2                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |
| 630                                                              | 3.2                  | 3.4             | 4.5                  | 5.5     | 8.0                | 9.3     | 10.5    |



### 耐压试验、局放试验: Voltage test, partial discharge test

| 试验项目 test item                                                | 额定电压 Rated voltage/kV |          |                   |       |       |       |       |
|---------------------------------------------------------------|-----------------------|----------|-------------------|-------|-------|-------|-------|
|                                                               | 3.6/6                 | 6/6、6/10 | 8.7/10、<br>8.7/15 | 12/20 | 18/30 | 21/35 | 26/35 |
| 工频交流电压试验 power frequency AC voltage test<br>kV/5min           | 12.5                  | 21       | 30.5              | 42    | 63    | 73.5  | 91    |
| 四小时工频交流电压试验 Four hours' power frequency AC voltage test<br>kV | /                     | 24       | 35                | 48    | 72    | 84    | 104   |
| 局部放电试验 partial discharge test pc                              | ≤5                    | ≤5       | ≤5                | ≤5    | ≤5    | ≤5    | ≤5    |
| U <sub>0</sub> /kV                                            | 额定电压 rated voltage/kV |          |                   |       |       |       |       |
|                                                               |                       | 6        | 10                | 15    | 20    | 30    | 35    |
| 冲击电压试验 impulse voltage test<br>kV                             |                       | 60       | 75                | 95    | 125   | 170   | 200   |

### 产品结构尺寸 (仅供参考): Product structure size (for reference only)

#### 导体外径: Outer diameter of conductor:

| 标称截面 nominal cross section<br>mm <sup>2</sup>                              | 1.5  | 2.5  | 4    | 6    | 10   | 16   | 25   | 35   | 50   |
|----------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
| 铜导体近似外径<br>cooper conductor<br>Approximate<br>outside diameter<br>mm       | 1.36 | 1.74 | 2.21 | 2.71 | 3.9  | 4.8  | 6.0  | 6.9  | 8.1  |
| 铝导体近似外径<br>Aluminium<br>conductor<br>Approximate<br>outside diameter<br>mm | /    | /    | /    | /    | 3.9  | 4.8  | 6.0  | 6.9  | 8.1  |
| 标称截面 nominal cross section<br>mm <sup>2</sup>                              | 70   | 95   | 120  | 150  | 185  | 240  | 300  | 400  | 500  |
| 铜导体近似外径<br>cooper conductor<br>Approximate<br>outside diameter<br>mm       | 9.2  | 10.8 | 12.2 | 13.5 | 15.1 | 17.4 | 19.4 | 21.9 | 26.4 |
| 铝导体近似外径<br>Aluminium<br>conductor<br>Approximate<br>outside diameter<br>mm | 9.7  | 11.4 | 12.1 | 13.3 | 15.0 | 17.2 | 19.2 | 21.8 | 26.4 |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |      |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|------|
|                               |                     |                                                        |                                                    |                                                 | YJV                                              | YJLV |
| 3.6/6                         | 1                   | 25                                                     | 1.5                                                | 17.2                                            | 495                                              | 323  |
| 3.6/6                         | 1                   | 35                                                     | 1.5                                                | 18.2                                            | 606                                              | 369  |
| 3.6/6                         | 1                   | 50                                                     | 1.6                                                | 19.4                                            | 741                                              | 431  |
| 3.6/6                         | 1                   | 70                                                     | 1.6                                                | 20.9                                            | 959                                              | 527  |
| 3.6/6                         | 1                   | 95                                                     | 1.7                                                | 22.8                                            | 1237                                             | 636  |
| 3.6/6                         | 1                   | 120                                                    | 1.7                                                | 24.2                                            | 1476                                             | 737  |
| 3.6/6                         | 1                   | 150                                                    | 1.8                                                | 25.8                                            | 1759                                             | 844  |
| 3.6/6                         | 1                   | 185                                                    | 1.8                                                | 27.5                                            | 2135                                             | 983  |
| 3.6/6                         | 1                   | 240                                                    | 1.9                                                | 30.1                                            | 2703                                             | 1214 |
| 3.6/6                         | 1                   | 300                                                    | 2.0                                                | 32.6                                            | 3319                                             | 1456 |
| 3.6/6                         | 1                   | 400                                                    | 2.1                                                | 35.7                                            | 4132                                             | 1784 |
| 3.6/6                         | 1                   | 500                                                    | 2.2                                                | 40.5                                            | 5289                                             | 2191 |
| 3.6/6                         | 3                   | 25                                                     | 2.1                                                | 34.3                                            | 1688                                             | 1124 |
| 3.6/6                         | 3                   | 35                                                     | 2.1                                                | 36.5                                            | 2024                                             | 1284 |
| 3.6/6                         | 3                   | 50                                                     | 2.2                                                | 39.0                                            | 2439                                             | 1488 |
| 3.6/6                         | 3                   | 70                                                     | 2.4                                                | 42.6                                            | 2897                                             | 1807 |
| 3.6/6                         | 3                   | 95                                                     | 2.5                                                | 46.5                                            | 4037                                             | 2171 |
| 3.6/6                         | 3                   | 120                                                    | 2.6                                                | 49.7                                            | 4826                                             | 2524 |
| 3.6/6                         | 3                   | 150                                                    | 2.7                                                | 52.9                                            | 5705                                             | 2916 |
| 3.6/6                         | 3                   | 185                                                    | 2.8                                                | 56.7                                            | 6945                                             | 3407 |
| 3.6/6                         | 3                   | 240                                                    | 3.0                                                | 62.3                                            | 8723                                             | 4160 |
| 3.6/6                         | 3                   | 300                                                    | 3.2                                                | 67.8                                            | 10644                                            | 4941 |
| 3.6/6                         | 3                   | 400                                                    | 3.4                                                | 74.3                                            | 13249                                            | 6137 |
| 3.6/6                         | 3                   | 500                                                    | 3.7                                                | 84.8                                            | 16914                                            | 7478 |
| 6/6、6/10                      | 1                   | 25                                                     | 1.6                                                | 19.0                                            | 559                                              | 380  |
| 6/6、6/10                      | 1                   | 35                                                     | 1.6                                                | 20.0                                            | 674                                              | 430  |
| 6/6、6/10                      | 1                   | 50                                                     | 1.7                                                | 21.1                                            | 804                                              | 494  |
| 6/6、6/10                      | 1                   | 70                                                     | 1.7                                                | 22.8                                            | 1035                                             | 596  |
| 6/6、6/10                      | 1                   | 95                                                     | 1.8                                                | 24.5                                            | 1309                                             | 710  |
| 6/6、6/10                      | 1                   | 120                                                    | 1.8                                                | 26.1                                            | 1563                                             | 815  |
| 6/6、6/10                      | 1                   | 150                                                    | 1.9                                                | 27.5                                            | 1838                                             | 927  |
| 6/6、6/10                      | 1                   | 185                                                    | 1.9                                                | 29.4                                            | 2232                                             | 1070 |
| 6/6、6/10                      | 1                   | 240                                                    | 2.0                                                | 31.8                                            | 2797                                             | 1299 |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |      |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|------|
|                               |                     |                                                        |                                                    |                                                 | YJV                                              | YJLV |
| 6/6、6/10                      | 1                   | 300                                                    | 2.1                                                | 33.8                                            | 3384                                             | 1524 |
| 6/6、6/10                      | 1                   | 400                                                    | 2.2                                                | 36.6                                            | 4194                                             | 1833 |
| 6/6、6/10                      | 1                   | 500                                                    | 2.3                                                | 40.8                                            | 5315                                             | 2217 |
| 6/6、6/10                      | 3                   | 25                                                     | 2.2                                                | 38.2                                            | 1873                                             | 1304 |
| 6/6、6/10                      | 3                   | 35                                                     | 2.3                                                | 40.5                                            | 2235                                             | 1472 |
| 6/6、6/10                      | 3                   | 50                                                     | 2.4                                                | 43.1                                            | 2663                                             | 1688 |
| 6/6、6/10                      | 3                   | 70                                                     | 2.5                                                | 46.5                                            | 3119                                             | 2024 |
| 6/6、6/10                      | 3                   | 95                                                     | 2.6                                                | 50.3                                            | 4276                                             | 2404 |
| 6/6、6/10                      | 3                   | 120                                                    | 2.7                                                | 53.5                                            | 5079                                             | 2770 |
| 6/6、6/10                      | 3                   | 150                                                    | 2.8                                                | 56.8                                            | 5972                                             | 3176 |
| 6/6、6/10                      | 3                   | 185                                                    | 2.9                                                | 60.6                                            | 7228                                             | 3683 |
| 6/6、6/10                      | 3                   | 240                                                    | 3.1                                                | 65.7                                            | 8999                                             | 4429 |
| 6/6、6/10                      | 3                   | 300                                                    | 3.3                                                | 70.4                                            | 10873                                            | 5158 |
| 6/6、6/10                      | 3                   | 400                                                    | 3.5                                                | 76.2                                            | 13425                                            | 6295 |
| 6/6、6/10                      | 3                   | 500                                                    | 3.7                                                | 85.6                                            | 16995                                            | 7900 |
| 8.7/10、8.7/15                 | 1                   | 25                                                     | 1.6                                                | 21.2                                            | 647                                              | 495  |
| 8.7/10、8.7/15                 | 1                   | 35                                                     | 1.7                                                | 22.4                                            | 775                                              | 541  |
| 8.7/10、8.7/15                 | 1                   | 50                                                     | 1.7                                                | 23.5                                            | 909                                              | 603  |
| 8.7/10、8.7/15                 | 1                   | 70                                                     | 1.8                                                | 25.2                                            | 1149                                             | 706  |
| 8.7/10、8.7/15                 | 1                   | 95                                                     | 1.8                                                | 26.9                                            | 1429                                             | 824  |
| 8.7/10、8.7/15                 | 1                   | 120                                                    | 1.9                                                | 28.4                                            | 1690                                             | 943  |
| 8.7/10、8.7/15                 | 1                   | 150                                                    | 1.9                                                | 29.8                                            | 1972                                             | 1060 |
| 8.7/10、8.7/15                 | 1                   | 185                                                    | 2.0                                                | 31.7                                            | 2374                                             | 1219 |
| 8.7/10、8.7/15                 | 1                   | 240                                                    | 2.1                                                | 34.1                                            | 2950                                             | 1458 |
| 8.7/10、8.7/15                 | 1                   | 300                                                    | 2.1                                                | 36.1                                            | 3545                                             | 1686 |
| 8.7/10、8.7/15                 | 1                   | 400                                                    | 2.2                                                | 38.8                                            | 4351                                             | 2002 |
| 8.7/10、8.7/15                 | 1                   | 500                                                    | 2.3                                                | 43.3                                            | 5508                                             | 2440 |
| 8.7/10、8.7/15                 | 1                   | 630                                                    | 2.4                                                | 47.4                                            | 6896                                             | 2942 |
| 8.7/10、8.7/15                 | 3                   | 25                                                     | 2.4                                                | 43.0                                            | 2155                                             | 1595 |
| 8.7/10、8.7/15                 | 3                   | 35                                                     | 2.5                                                | 45.4                                            | 2530                                             | 1796 |
| 8.7/10、8.7/15                 | 3                   | 50                                                     | 2.6                                                | 47.9                                            | 2991                                             | 2040 |
| 8.7/10、8.7/15                 | 3                   | 70                                                     | 2.7                                                | 51.4                                            | 3741                                             | 2403 |
| 8.7/10、8.7/15                 | 3                   | 95                                                     | 2.8                                                | 55.2                                            | 4654                                             | 2822 |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |       |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------|
|                               |                     |                                                        |                                                    |                                                 | YJV                                              | YJLV  |
| 8.7/10、8.7/15                 | 3                   | 120                                                    | 2.9                                                | 58.4                                            | 5466                                             | 3208  |
| 8.7/10、8.7/15                 | 3                   | 150                                                    | 3.0                                                | 61.6                                            | 6419                                             | 3663  |
| 8.7/10、8.7/15                 | 3                   | 185                                                    | 3.1                                                | 65.5                                            | 7667                                             | 4176  |
| 8.7/10、8.7/15                 | 3                   | 240                                                    | 3.3                                                | 70.6                                            | 9462                                             | 4955  |
| 8.7/10、8.7/15                 | 3                   | 300                                                    | 3.4                                                | 75.1                                            | 11416                                            | 5800  |
| 8.7/10、8.7/15                 | 3                   | 400                                                    | 3.7                                                | 81.0                                            | 14026                                            | 6927  |
| 8.7/10、8.7/15                 | 3                   | 500                                                    | 3.8                                                | 90.3                                            | 17602                                            | 8529  |
| 8.7/10、8.7/15                 | 3                   | 630                                                    | 4.1                                                | 99.3                                            | 22129                                            | 10459 |
| 12/20                         | 1                   | 35                                                     | 1.7                                                | 24.3                                            | 854                                              | 610   |
| 12/20                         | 1                   | 50                                                     | 1.8                                                | 25.6                                            | 1003                                             | 684   |
| 12/20                         | 1                   | 70                                                     | 1.8                                                | 27.1                                            | 1237                                             | 800   |
| 12/20                         | 1                   | 95                                                     | 1.9                                                | 28.9                                            | 1535                                             | 926   |
| 12/20                         | 1                   | 120                                                    | 2.0                                                | 30.3                                            | 1788                                             | 1042  |
| 12/20                         | 1                   | 150                                                    | 2.0                                                | 32.8                                            | 2114                                             | 1165  |
| 12/20                         | 1                   | 185                                                    | 2.1                                                | 34.5                                            | 2509                                             | 1321  |
| 12/20                         | 1                   | 240                                                    | 2.1                                                | 36.9                                            | 3094                                             | 1569  |
| 12/20                         | 1                   | 300                                                    | 2.2                                                | 39.1                                            | 3713                                             | 1811  |
| 12/20                         | 1                   | 400                                                    | 2.3                                                | 41.8                                            | 4531                                             | 2142  |
| 12/20                         | 1                   | 500                                                    | 2.4                                                | 46.1                                            | 5705                                             | 2550  |
| 12/20                         | 3                   | 35                                                     | 2.6                                                | 49.7                                            | 2790                                             | 2053  |
| 12/20                         | 3                   | 50                                                     | 2.7                                                | 52.2                                            | 3263                                             | 2253  |
| 12/20                         | 3                   | 70                                                     | 2.8                                                | 55.6                                            | 4029                                             | 2694  |
| 12/20                         | 3                   | 95                                                     | 2.9                                                | 59.5                                            | 4961                                             | 3126  |
| 12/20                         | 3                   | 120                                                    | 3.0                                                | 62.7                                            | 5788                                             | 3548  |
| 12/20                         | 3                   | 150                                                    | 3.1                                                | 65.9                                            | 6757                                             | 3993  |
| 12/20                         | 3                   | 185                                                    | 3.3                                                | 69.9                                            | 8053                                             | 4516  |
| 12/20                         | 3                   | 240                                                    | 3.4                                                | 74.9                                            | 9843                                             | 5316  |
| 12/20                         | 3                   | 300                                                    | 3.6                                                | 79.6                                            | 11851                                            | 6244  |
| 12/20                         | 3                   | 400                                                    | 3.8                                                | 85.3                                            | 14458                                            | 7355  |
| 12/20                         | 3                   | 500                                                    | 4.0                                                | 94.8                                            | 18118                                            | 8835  |
| 18/20、18/30                   | 1                   | 50                                                     | 2.0                                                | 30.7                                            | 1263                                             | 925   |
| 18/20、18/30                   | 1                   | 70                                                     | 2.0                                                | 32.2                                            | 1508                                             | 1056  |
| 18/20、18/30                   | 1                   | 95                                                     | 2.1                                                | 34.0                                            | 1822                                             | 1197  |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |       |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------|
|                               |                     |                                                        |                                                    |                                                 | YJV                                              | YJLV  |
| 18/20、18/30                   | 1                   | 120                                                    | 2.1                                                | 35.4                                            | 2087                                             | 1323  |
| 18/20、18/30                   | 1                   | 150                                                    | 2.2                                                | 37.0                                            | 2400                                             | 1457  |
| 18/20、18/30                   | 1                   | 185                                                    | 2.2                                                | 38.7                                            | 2808                                             | 1628  |
| 18/20、18/30                   | 1                   | 240                                                    | 2.3                                                | 41.1                                            | 3411                                             | 1895  |
| 18/20、18/30                   | 1                   | 300                                                    | 2.4                                                | 43.3                                            | 4047                                             | 2156  |
| 18/20、18/30                   | 1                   | 400                                                    | 2.5                                                | 46.0                                            | 4886                                             | 2510  |
| 18/20、18/30                   | 1                   | 500                                                    | 2.6                                                | 50.3                                            | 6093                                             | 2944  |
| 18/20、18/30                   | 3                   | 50                                                     | 3.1                                                | 63.2                                            | 4155                                             | 3070  |
| 18/20、18/30                   | 3                   | 70                                                     | 3.2                                                | 66.6                                            | 4961                                             | 3508  |
| 18/20、18/30                   | 3                   | 95                                                     | 3.3                                                | 70.5                                            | 5975                                             | 3987  |
| 18/20、18/30                   | 3                   | 120                                                    | 3.4                                                | 73.7                                            | 6854                                             | 4444  |
| 18/20、18/30                   | 3                   | 150                                                    | 3.5                                                | 76.9                                            | 7828                                             | 4928  |
| 18/20、18/30                   | 3                   | 185                                                    | 3.6                                                | 80.7                                            | 9221                                             | 5497  |
| 18/20、18/30                   | 3                   | 240                                                    | 3.8                                                | 85.9                                            | 11185                                            | 6363  |
| 18/20、18/30                   | 3                   | 300                                                    | 4.0                                                | 90.4                                            | 13185                                            | 7350  |
| 18/20、18/30                   | 3                   | 400                                                    | 4.2                                                | 96.3                                            | 15910                                            | 8536  |
| 18/20、18/30                   | 3                   | 500                                                    | 4.4                                                | 105.8                                           | 19690                                            | 10103 |
| 21/35                         | 1                   | 50                                                     | 2.1                                                | 33.3                                            | 1414                                             | 1080  |
| 21/35                         | 1                   | 70                                                     | 2.1                                                | 34.8                                            | 1666                                             | 1220  |
| 21/35                         | 1                   | 95                                                     | 2.2                                                | 36.7                                            | 1988                                             | 1368  |
| 21/35                         | 1                   | 120                                                    | 2.2                                                | 38.1                                            | 2259                                             | 1501  |
| 21/35                         | 1                   | 150                                                    | 2.3                                                | 39.7                                            | 2579                                             | 1642  |
| 21/35                         | 1                   | 185                                                    | 2.3                                                | 41.4                                            | 2994                                             | 1820  |
| 21/35                         | 1                   | 240                                                    | 2.4                                                | 43.8                                            | 3608                                             | 2099  |
| 21/35                         | 1                   | 300                                                    | 2.5                                                | 45.9                                            | 4253                                             | 2370  |
| 21/35                         | 1                   | 400                                                    | 2.6                                                | 48.6                                            | 5103                                             | 2737  |
| 21/35                         | 1                   | 500                                                    | 2.7                                                | 55.2                                            | 6555                                             | 3537  |
| 21/35                         | 1                   | 630                                                    | 2.8                                                | 59.2                                            | 8000                                             | 4103  |
| 21/35                         | 3                   | 50                                                     | 3.3                                                | 68.9                                            | 4834                                             | 3918  |
| 21/35                         | 3                   | 70                                                     | 3.4                                                | 72.3                                            | 5752                                             | 4459  |
| 21/35                         | 3                   | 95                                                     | 3.5                                                | 76.2                                            | 6863                                             | 5015  |
| 21/35                         | 3                   | 120                                                    | 3.6                                                | 79.4                                            | 7782                                             | 5523  |
| 21/35                         | 3                   | 150                                                    | 3.7                                                | 82.6                                            | 8861                                             | 6041  |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |       |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------|
|                               |                     |                                                        |                                                    |                                                 | YJV                                              | YJLV  |
| 21/35                         | 3                   | 185                                                    | 3.8                                                | 86.4                                            | 10249                                            | 6690  |
| 21/35                         | 3                   | 240                                                    | 4.0                                                | 91.5                                            | 12210                                            | 7653  |
| 21/35                         | 3                   | 300                                                    | 4.2                                                | 96.0                                            | 14192                                            | 8623  |
| 21/35                         | 3                   | 400                                                    | 4.4                                                | 102.0                                           | 16869                                            | 9898  |
| 21/35                         | 3                   | 500                                                    | 4.6                                                | 116.2                                           | 21749                                            | 12866 |
| 21/35                         | 3                   | 630                                                    | 4.9                                                | 125.0                                           | 26427                                            | 14960 |
| 26/35                         | 1                   | 50                                                     | 2.1                                                | 35.6                                            | 1414                                             | 1222  |
| 26/35                         | 1                   | 70                                                     | 2.2                                                | 37.3                                            | 1666                                             | 1368  |
| 26/35                         | 1                   | 95                                                     | 2.3                                                | 39.0                                            | 1988                                             | 1523  |
| 26/35                         | 1                   | 120                                                    | 2.3                                                | 40.6                                            | 2259                                             | 1661  |
| 26/35                         | 1                   | 150                                                    | 2.4                                                | 42.0                                            | 2579                                             | 1808  |
| 26/35                         | 1                   | 185                                                    | 2.4                                                | 43.8                                            | 2994                                             | 1993  |
| 26/35                         | 1                   | 240                                                    | 2.5                                                | 46.2                                            | 3608                                             | 2281  |
| 26/35                         | 1                   | 300                                                    | 2.6                                                | 48.2                                            | 4253                                             | 2561  |
| 26/35                         | 1                   | 400                                                    | 2.7                                                | 51.1                                            | 5103                                             | 2939  |
| 26/35                         | 1                   | 500                                                    | 2.7                                                | 57.6                                            | 6555                                             | 3733  |
| 26/35                         | 1                   | 630                                                    | 2.8                                                | 61.7                                            | 8000                                             | 4312  |
| 26/35                         | 3                   | 50                                                     | 3.5                                                | 74.2                                            | 5309                                             | 4369  |
| 26/35                         | 3                   | 70                                                     | 3.6                                                | 77.6                                            | 6249                                             | 4933  |
| 26/35                         | 3                   | 95                                                     | 3.7                                                | 81.5                                            | 7383                                             | 5512  |
| 26/35                         | 3                   | 120                                                    | 3.8                                                | 84.7                                            | 8321                                             | 6037  |
| 26/35                         | 3                   | 150                                                    | 3.9                                                | 87.9                                            | 9419                                             | 6573  |
| 26/35                         | 3                   | 185                                                    | 4.0                                                | 91.7                                            | 10831                                            | 7244  |
| 26/35                         | 3                   | 240                                                    | 4.2                                                | 96.8                                            | 12824                                            | 8239  |
| 26/35                         | 3                   | 300                                                    | 4.3                                                | 101.3                                           | 14832                                            | 9237  |
| 26/35                         | 3                   | 400                                                    | 4.6                                                | 107.3                                           | 17548                                            | 10548 |
| 26/35                         | 3                   | 500                                                    | 4.8                                                | 121.5                                           | 22663                                            | 13754 |
| 26/35                         | 3                   | 630                                                    | 5.1                                                | 130.5                                           | 27466                                            | 15966 |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV62/YJ<br>V22                                  | YJLV62/<br>YJLV22 |
| 3.6/6                         | 1                   | 25                                                     | 1.8                                                | 20.7                                            | 736                                              | 540               |
| 3.6/6                         | 1                   | 35                                                     | 1.8                                                | 21.7                                            | 861                                              | 584               |
| 3.6/6                         | 1                   | 50                                                     | 1.8                                                | 22.8                                            | 1002                                             | 659               |
| 3.6/6                         | 1                   | 70                                                     | 1.8                                                | 24.3                                            | 1239                                             | 777               |
| 3.6/6                         | 1                   | 95                                                     | 1.8                                                | 26.0                                            | 1529                                             | 905               |
| 3.6/6                         | 1                   | 120                                                    | 1.8                                                | 27.4                                            | 1786                                             | 1022              |
| 3.6/6                         | 1                   | 150                                                    | 1.9                                                | 28.9                                            | 2087                                             | 1146              |
| 3.6/6                         | 1                   | 185                                                    | 1.9                                                | 30.6                                            | 2485                                             | 1304              |
| 3.6/6                         | 1                   | 240                                                    | 2.0                                                | 33.2                                            | 3083                                             | 1555              |
| 3.6/6                         | 1                   | 300                                                    | 2.2                                                | 37.1                                            | 4087                                             | 2179              |
| 3.6/6                         | 1                   | 400                                                    | 2.3                                                | 40.2                                            | 4968                                             | 2589              |
| 3.6/6                         | 1                   | 500                                                    | 2.4                                                | 45.2                                            | 6265                                             | 3089              |
| 3.6/6                         | 3                   | 25                                                     | 2.2                                                | 38.6                                            | 2479                                             | 1881              |
| 3.6/6                         | 3                   | 35                                                     | 2.3                                                | 41.2                                            | 2903                                             | 2093              |
| 3.6/6                         | 3                   | 50                                                     | 2.4                                                | 43.7                                            | 3377                                             | 2363              |
| 3.6/6                         | 3                   | 70                                                     | 2.5                                                | 47.3                                            | 4191                                             | 2782              |
| 3.6/6                         | 3                   | 95                                                     | 2.6                                                | 51.2                                            | 5152                                             | 3246              |
| 3.6/6                         | 3                   | 120                                                    | 2.8                                                | 54.7                                            | 6066                                             | 3680              |
| 3.6/6                         | 3                   | 150                                                    | 2.8                                                | 58.1                                            | 7051                                             | 4159              |
| 3.6/6                         | 3                   | 185                                                    | 3.0                                                | 62.0                                            | 8389                                             | 4754              |
| 3.6/6                         | 3                   | 240                                                    | 3.2                                                | 67.7                                            | 10339                                            | 5671              |
| 3.6/6                         | 3                   | 300                                                    | 3.3                                                | 73.4                                            | 12435                                            | 6622              |
| 3.6/6                         | 3                   | 400                                                    | 3.6                                                | 81.7                                            | 16097                                            | 8835              |
| 3.6/6                         | 3                   | 500                                                    | 3.8                                                | 92.1                                            | 20191                                            | 10505             |
| 6/6、6/10                      | 1                   | 25                                                     | 1.8                                                | 22.4                                            | 815                                              | 614               |
| 6/6、6/10                      | 1                   | 35                                                     | 1.8                                                | 23.4                                            | 942                                              | 664               |
| 6/6、6/10                      | 1                   | 50                                                     | 1.8                                                | 24.5                                            | 1086                                             | 742               |
| 6/6、6/10                      | 1                   | 70                                                     | 1.8                                                | 26.0                                            | 1328                                             | 866               |
| 6/6、6/10                      | 1                   | 95                                                     | 1.9                                                | 27.8                                            | 1634                                             | 999               |
| 6/6、6/10                      | 1                   | 120                                                    | 1.9                                                | 29.2                                            | 1895                                             | 1120              |
| 6/6、6/10                      | 1                   | 150                                                    | 2.0                                                | 30.8                                            | 2201                                             | 1248              |
| 6/6、6/10                      | 1                   | 185                                                    | 2.0                                                | 32.5                                            | 2604                                             | 1411              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV62/YJ<br>V22                                  | YJLV62/<br>YJLV22 |
| 6/6、6/10                      | 1                   | 240                                                    | 2.1                                                | 36.1                                            | 3530                                             | 1995              |
| 6/6、6/10                      | 1                   | 300                                                    | 2.2                                                | 38.3                                            | 4178                                             | 2277              |
| 6/6、6/10                      | 1                   | 400                                                    | 2.3                                                | 41.1                                            | 5053                                             | 2658              |
| 6/6、6/10                      | 1                   | 500                                                    | 2.4                                                | 45.5                                            | 6300                                             | 3124              |
| 6/6、6/10                      | 3                   | 25                                                     | 2.4                                                | 42.9                                            | 2789                                             | 2158              |
| 6/6、6/10                      | 3                   | 35                                                     | 2.5                                                | 45.0                                            | 3185                                             | 2380              |
| 6/6、6/10                      | 3                   | 50                                                     | 2.6                                                | 48.0                                            | 3715                                             | 2662              |
| 6/6、6/10                      | 3                   | 70                                                     | 2.7                                                | 51.6                                            | 4548                                             | 3101              |
| 6/6、6/10                      | 3                   | 95                                                     | 2.8                                                | 55.4                                            | 5529                                             | 3584              |
| 6/6、6/10                      | 3                   | 120                                                    | 2.9                                                | 58.8                                            | 6438                                             | 4033              |
| 6/6、6/10                      | 3                   | 150                                                    | 3.0                                                | 62.0                                            | 7412                                             | 4527              |
| 6/6、6/10                      | 3                   | 185                                                    | 3.1                                                | 66.0                                            | 8797                                             | 5141              |
| 6/6、6/10                      | 3                   | 240                                                    | 3.3                                                | 71.3                                            | 10733                                            | 6042              |
| 6/6、6/10                      | 3                   | 300                                                    | 3.5                                                | 76.2                                            | 12765                                            | 6918              |
| 6/6、6/10                      | 3                   | 400                                                    | 3.8                                                | 83.3                                            | 16301                                            | 9065              |
| 6/6、6/10                      | 3                   | 500                                                    | 4.0                                                | 93.0                                            | 20303                                            | 11099             |
| 8.7/10、8.7/15                 | 1                   | 35                                                     | 1.8                                                | 25.5                                            | 1062                                             | 869               |
| 8.7/10、8.7/15                 | 1                   | 50                                                     | 1.8                                                | 26.6                                            | 1210                                             | 947               |
| 8.7/10、8.7/15                 | 1                   | 70                                                     | 1.9                                                | 28.3                                            | 1469                                             | 1087              |
| 8.7/10、8.7/15                 | 1                   | 95                                                     | 1.9                                                | 30.0                                            | 1771                                             | 1230              |
| 8.7/10、8.7/15                 | 1                   | 120                                                    | 2.0                                                | 31.6                                            | 2051                                             | 1372              |
| 8.7/10、8.7/15                 | 1                   | 150                                                    | 2.0                                                | 33.0                                            | 2350                                             | 1510              |
| 8.7/10、8.7/15                 | 1                   | 185                                                    | 2.1                                                | 36.1                                            | 3106                                             | 2026              |
| 8.7/10、8.7/15                 | 1                   | 240                                                    | 2.2                                                | 38.4                                            | 3733                                             | 2327              |
| 8.7/10、8.7/15                 | 1                   | 300                                                    | 2.3                                                | 40.6                                            | 4390                                             | 2627              |
| 8.7/10、8.7/15                 | 1                   | 400                                                    | 2.4                                                | 43.5                                            | 5278                                             | 3039              |
| 8.7/10、8.7/15                 | 1                   | 500                                                    | 2.5                                                | 48.2                                            | 6571                                             | 3607              |
| 8.7/10、8.7/15                 | 1                   | 630                                                    | 2.6                                                | 52.2                                            | 8056                                             | 4208              |
| 8.7/10、8.7/15                 | 3                   | 25                                                     | 2.6                                                | 47.1                                            | 3145                                             | 2727              |
| 8.7/10、8.7/15                 | 3                   | 35                                                     | 2.6                                                | 49.5                                            | 3573                                             | 2987              |
| 8.7/10、8.7/15                 | 3                   | 50                                                     | 2.7                                                | 52.2                                            | 4117                                             | 3331              |
| 8.7/10、8.7/15                 | 3                   | 70                                                     | 2.9                                                | 56.0                                            | 4997                                             | 3833              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV62/YJ<br>V22                                  | YJLV62/<br>YJLV22 |
| 8.7/10、8.7/15                 | 3                   | 95                                                     | 3.0                                                | 60.8                                            | 5710                                             | 4380              |
| 8.7/10、8.7/15                 | 3                   | 120                                                    | 3.1                                                | 63.2                                            | 6925                                             | 4896              |
| 8.7/10、8.7/15                 | 3                   | 150                                                    | 3.2                                                | 66.6                                            | 7990                                             | 5440              |
| 8.7/10、8.7/15                 | 3                   | 185                                                    | 3.3                                                | 70.5                                            | 9338                                             | 6109              |
| 8.7/10、8.7/15                 | 3                   | 240                                                    | 3.5                                                | 75.8                                            | 11298                                            | 7096              |
| 8.7/10、8.7/15                 | 3                   | 300                                                    | 3.7                                                | 81.8                                            | 14219                                            | 8958              |
| 8.7/10、8.7/15                 | 3                   | 400                                                    | 3.9                                                | 87.8                                            | 17051                                            | 10342             |
| 8.7/10、8.7/15                 | 3                   | 500                                                    | 4.1                                                | 97.4                                            | 21066                                            | 11928             |
| 8.7/10、8.7/15                 | 3                   | 630                                                    | 4.4                                                | 106.7                                           | 26035                                            | 14281             |
| 12/20                         | 1                   | 35                                                     | 1.9                                                | 27.6                                            | 1177                                             | 963               |
| 12/20                         | 1                   | 50                                                     | 1.9                                                | 28.7                                            | 1329                                             | 1045              |
| 12/20                         | 1                   | 70                                                     | 2.0                                                | 30.4                                            | 1594                                             | 1184              |
| 12/20                         | 1                   | 95                                                     | 2.0                                                | 32.1                                            | 1901                                             | 1336              |
| 12/20                         | 1                   | 120                                                    | 2.1                                                | 33.7                                            | 2186                                             | 1480              |
| 12/20                         | 1                   | 150                                                    | 2.2                                                | 37.2                                            | 2871                                             | 1952              |
| 12/20                         | 1                   | 185                                                    | 2.2                                                | 39.0                                            | 3321                                             | 2166              |
| 12/20                         | 1                   | 240                                                    | 2.3                                                | 41.4                                            | 3958                                             | 2462              |
| 12/20                         | 1                   | 300                                                    | 2.4                                                | 43.8                                            | 4646                                             | 2776              |
| 12/20                         | 1                   | 400                                                    | 2.5                                                | 46.5                                            | 5525                                             | 3171              |
| 12/20                         | 1                   | 500                                                    | 2.6                                                | 51.0                                            | 6834                                             | 3755              |
| 12/20                         | 3                   | 35                                                     | 2.8                                                | 54.7                                            | 4018                                             | 3222              |
| 12/20                         | 3                   | 50                                                     | 2.9                                                | 57.5                                            | 4580                                             | 3544              |
| 12/20                         | 3                   | 70                                                     | 3.0                                                | 60.9                                            | 5431                                             | 4042              |
| 12/20                         | 3                   | 95                                                     | 3.1                                                | 64.9                                            | 6490                                             | 4583              |
| 12/20                         | 3                   | 120                                                    | 3.3                                                | 68.3                                            | 7430                                             | 5091              |
| 12/20                         | 3                   | 150                                                    | 3.4                                                | 71.5                                            | 8482                                             | 5629              |
| 12/20                         | 3                   | 185                                                    | 3.5                                                | 75.7                                            | 9918                                             | 6264              |
| 12/20                         | 3                   | 240                                                    | 3.7                                                | 82.2                                            | 12692                                            | 8031              |
| 12/20                         | 3                   | 300                                                    | 3.9                                                | 86.9                                            | 14879                                            | 9141              |
| 12/20                         | 3                   | 400                                                    | 4.1                                                | 93.0                                            | 17786                                            | 10542             |
| 12/20                         | 3                   | 500                                                    | 4.3                                                | 102.7                                           | 21861                                            | 12327             |
| 18/20、18/30                   | 1                   | 50                                                     | 2.1                                                | 33.8                                            | 1650                                             | 1603              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV62/YJ<br>V22                                  | YJLV62/<br>YJLV22 |
| 18/20、18/30                   | 1                   | 70                                                     | 2.2                                                | 36.7                                            | 2266                                             | 1774              |
| 18/20、18/30                   | 1                   | 95                                                     | 2.2                                                | 38.4                                            | 2605                                             | 1952              |
| 18/20、18/30                   | 1                   | 120                                                    | 2.3                                                | 40.0                                            | 2918                                             | 2107              |
| 18/20、18/30                   | 1                   | 150                                                    | 2.3                                                | 41.5                                            | 3268                                             | 2273              |
| 18/20、18/30                   | 1                   | 185                                                    | 2.4                                                | 43.4                                            | 3733                                             | 2480              |
| 18/20、18/30                   | 1                   | 240                                                    | 2.5                                                | 45.8                                            | 4390                                             | 2833              |
| 18/20、18/30                   | 1                   | 300                                                    | 2.5                                                | 48.0                                            | 5077                                             | 3153              |
| 18/20、18/30                   | 1                   | 400                                                    | 2.7                                                | 50.7                                            | 5976                                             | 3583              |
| 18/20、18/30                   | 1                   | 500                                                    | 2.8                                                | 55.2                                            | 7321                                             | 4105              |
| 18/20、18/30                   | 3                   | 50                                                     | 3.3                                                | 68.8                                            | 5799                                             | 4619              |
| 18/20、18/30                   | 3                   | 70                                                     | 3.4                                                | 72.2                                            | 6693                                             | 5171              |
| 18/20、18/30                   | 3                   | 95                                                     | 3.5                                                | 76.3                                            | 7842                                             | 6520              |
| 18/20、18/30                   | 3                   | 120                                                    | 3.7                                                | 81.0                                            | 9644                                             | 7080              |
| 18/20、18/30                   | 3                   | 150                                                    | 3.8                                                | 84.2                                            | 10736                                            | 7715              |
| 18/20、18/30                   | 3                   | 185                                                    | 3.9                                                | 88.3                                            | 12315                                            | 8442              |
| 18/20、18/30                   | 3                   | 240                                                    | 4.1                                                | 93.6                                            | 14514                                            | 9536              |
| 18/20、18/30                   | 3                   | 300                                                    | 4.2                                                | 98.2                                            | 16736                                            | 10736             |
| 18/20、18/30                   | 3                   | 400                                                    | 4.5                                                | 104.4                                           | 19738                                            | 12202             |
| 18/20、18/30                   | 3                   | 500                                                    | 4.7                                                | 114.0                                           | 23946                                            | 14083             |
| 21/35                         | 1                   | 50                                                     | 2.2                                                | 37.7                                            | 2180                                             | 1818              |
| 21/35                         | 1                   | 70                                                     | 2.3                                                | 39.3                                            | 2483                                             | 1997              |
| 21/35                         | 1                   | 95                                                     | 2.3                                                | 41.2                                            | 2848                                             | 2183              |
| 21/35                         | 1                   | 120                                                    | 2.4                                                | 42.8                                            | 3170                                             | 2344              |
| 21/35                         | 1                   | 150                                                    | 2.4                                                | 44.2                                            | 3506                                             | 2516              |
| 21/35                         | 1                   | 185                                                    | 2.5                                                | 46.3                                            | 4002                                             | 2732              |
| 21/35                         | 1                   | 240                                                    | 2.6                                                | 48.6                                            | 4670                                             | 3110              |
| 21/35                         | 1                   | 300                                                    | 2.6                                                | 50.6                                            | 5343                                             | 3441              |
| 21/35                         | 1                   | 400                                                    | 2.8                                                | 53.5                                            | 6279                                             | 3886              |
| 21/35                         | 1                   | 500                                                    | 2.9                                                | 60.4                                            | 7959                                             | 4822              |
| 21/35                         | 1                   | 630                                                    | 3.0                                                | 64.5                                            | 9505                                             | 5490              |
| 21/35                         | 3                   | 50                                                     | 3.5                                                | 74.7                                            | 6654                                             | 5646              |
| 21/35                         | 3                   | 70                                                     | 3.7                                                | 79.5                                            | 8451                                             | 7083              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV62/YJ<br>V22                                  | YJLV62/<br>YJLV22 |
| 21/35                         | 3                   | 95                                                     | 3.8                                                | 83.5                                            | 9738                                             | 7797              |
| 21/35                         | 3                   | 120                                                    | 3.9                                                | 86.9                                            | 10816                                            | 8431              |
| 21/35                         | 3                   | 150                                                    | 4.0                                                | 90.3                                            | 12058                                            | 9082              |
| 21/35                         | 3                   | 185                                                    | 4.1                                                | 94.1                                            | 13593                                            | 9893              |
| 21/35                         | 3                   | 240                                                    | 4.3                                                | 99.4                                            | 15795                                            | 11089             |
| 21/35                         | 3                   | 300                                                    | 4.4                                                | 104.1                                           | 18002                                            | 12299             |
| 21/35                         | 3                   | 400                                                    | 4.7                                                | 110.2                                           | 20962                                            | 13836             |
| 21/35                         | 3                   | 500                                                    | 4.9                                                | 126.1                                           | 26745                                            | 17571             |
| 21/35                         | 3                   | 630                                                    | 5.2                                                | 135.2                                           | 31925                                            | 20130             |
| 26/35                         | 1                   | 50                                                     | 2.3                                                | 40.3                                            | 2404                                             | 2009              |
| 26/35                         | 1                   | 70                                                     | 2.4                                                | 42.0                                            | 2714                                             | 2195              |
| 26/35                         | 1                   | 95                                                     | 2.4                                                | 43.7                                            | 3068                                             | 2388              |
| 26/35                         | 1                   | 120                                                    | 2.5                                                | 45.3                                            | 3395                                             | 2555              |
| 26/35                         | 1                   | 150                                                    | 2.5                                                | 46.8                                            | 3759                                             | 2732              |
| 26/35                         | 1                   | 185                                                    | 2.6                                                | 48.7                                            | 4242                                             | 2955              |
| 26/35                         | 1                   | 240                                                    | 2.6                                                | 50.9                                            | 4897                                             | 3356              |
| 26/35                         | 1                   | 300                                                    | 2.7                                                | 53.3                                            | 5626                                             | 3697              |
| 26/35                         | 1                   | 400                                                    | 2.8                                                | 56.0                                            | 6548                                             | 4154              |
| 26/35                         | 1                   | 500                                                    | 3.0                                                | 62.9                                            | 8244                                             | 5070              |
| 26/35                         | 1                   | 630                                                    | 3.1                                                | 67.1                                            | 9838                                             | 5752              |
| 26/35                         | 3                   | 50                                                     | 3.7                                                | 81.3                                            | 8069                                             | 7047              |
| 26/35                         | 3                   | 70                                                     | 3.8                                                | 84.9                                            | 9173                                             | 7774              |
| 26/35                         | 3                   | 95                                                     | 4.0                                                | 89.0                                            | 10488                                            | 8513              |
| 26/35                         | 3                   | 120                                                    | 4.1                                                | 92.4                                            | 11590                                            | 9166              |
| 26/35                         | 3                   | 150                                                    | 4.2                                                | 95.7                                            | 12855                                            | 9839              |
| 26/35                         | 3                   | 185                                                    | 4.3                                                | 99.6                                            | 14415                                            | 10675             |
| 26/35                         | 3                   | 240                                                    | 4.5                                                | 104.9                                           | 16654                                            | 11907             |
| 26/35                         | 3                   | 300                                                    | 4.6                                                | 109.6                                           | 18892                                            | 13150             |
| 26/35                         | 3                   | 400                                                    | 4.9                                                | 115.7                                           | 21895                                            | 14728             |
| 26/35                         | 3                   | 500                                                    | 5.1                                                | 132.2                                           | 28130                                            | 18957             |
| 26/35                         | 3                   | 630                                                    | 5.4                                                | 141.2                                           | 33334                                            | 21540             |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV72/Y<br>JV32                                  | YJLV72/<br>YJLV32 |
| 3.6/6                         | 1                   | 25                                                     | 1.8                                                | 41.4                                            | 844                                              | 694               |
| 3.6/6                         | 1                   | 35                                                     | 1.8                                                | 44.9                                            | 975                                              | 760               |
| 3.6/6                         | 1                   | 50                                                     | 1.8                                                | 47.5                                            | 1120                                             | 836               |
| 3.6/6                         | 1                   | 70                                                     | 1.8                                                | 51.1                                            | 1366                                             | 954               |
| 3.6/6                         | 1                   | 95                                                     | 1.9                                                | 54.9                                            | 1676                                             | 1107              |
| 3.6/6                         | 1                   | 120                                                    | 1.9                                                | 58.5                                            | 1942                                             | 1232              |
| 3.6/6                         | 1                   | 150                                                    | 2.0                                                | 61.9                                            | 2249                                             | 1372              |
| 3.6/6                         | 1                   | 185                                                    | 2.1                                                | 65.7                                            | 2753                                             | 1640              |
| 3.6/6                         | 1                   | 240                                                    | 2.1                                                | 71.5                                            | 3362                                             | 1908              |
| 3.6/6                         | 1                   | 300                                                    | 2.2                                                | 78.4                                            | 4034                                             | 2206              |
| 3.6/6                         | 1                   | 400                                                    | 2.4                                                | 85.6                                            | 4926                                             | 2615              |
| 3.6/6                         | 1                   | 500                                                    | 2.5                                                | 96.0                                            | 6361                                             | 3324              |
| 3.6/6                         | 3                   | 25                                                     | 2.3                                                | 41.4                                            | 3281                                             | 2828              |
| 3.6/6                         | 3                   | 35                                                     | 2.4                                                | 44.9                                            | 4140                                             | 3494              |
| 3.6/6                         | 3                   | 50                                                     | 2.5                                                | 47.5                                            | 4697                                             | 3839              |
| 3.6/6                         | 3                   | 70                                                     | 2.6                                                | 51.1                                            | 5615                                             | 4374              |
| 3.6/6                         | 3                   | 95                                                     | 2.7                                                | 54.9                                            | 6676                                             | 4964              |
| 3.6/6                         | 3                   | 120                                                    | 2.9                                                | 58.5                                            | 7700                                             | 5561              |
| 3.6/6                         | 3                   | 150                                                    | 3.0                                                | 61.9                                            | 8793                                             | 6152              |
| 3.6/6                         | 3                   | 185                                                    | 3.1                                                | 65.7                                            | 10271                                            | 6918              |
| 3.6/6                         | 3                   | 240                                                    | 3.3                                                | 71.5                                            | 12375                                            | 7995              |
| 3.6/6                         | 3                   | 300                                                    | 3.5                                                | 78.4                                            | 15520                                            | 10014             |
| 3.6/6                         | 3                   | 400                                                    | 3.8                                                | 85.6                                            | 18747                                            | 11783             |
| 3.6/6                         | 3                   | 500                                                    | 4.0                                                | 96.0                                            | 23144                                            | 13993             |
| 6/6、6/10                      | 1                   | 25                                                     | 1.8                                                | 25.4                                            | 928                                              | 779               |
| 6/6、6/10                      | 1                   | 35                                                     | 1.8                                                | 26.4                                            | 1061                                             | 848               |
| 6/6、6/10                      | 1                   | 50                                                     | 1.8                                                | 27.5                                            | 1209                                             | 926               |
| 6/6、6/10                      | 1                   | 70                                                     | 1.9                                                | 29.1                                            | 1470                                             | 1061              |
| 6/6、6/10                      | 1                   | 95                                                     | 1.9                                                | 30.8                                            | 1771                                             | 1207              |
| 6/6、6/10                      | 1                   | 120                                                    | 2.0                                                | 33.2                                            | 2131                                             | 1426              |
| 6/6、6/10                      | 1                   | 150                                                    | 2.1                                                | 34.8                                            | 2448                                             | 1578              |
| 6/6、6/10                      | 1                   | 185                                                    | 2.1                                                | 36.5                                            | 2867                                             | 1763              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV72/Y<br>JV32                                  | YJLV72/<br>YJLV32 |
| 6/6、6/10                      | 1                   | 240                                                    | 2.2                                                | 38.9                                            | 3476                                             | 2033              |
| 6/6、6/10                      | 1                   | 300                                                    | 2.3                                                | 41.1                                            | 4119                                             | 2305              |
| 6/6、6/10                      | 1                   | 400                                                    | 2.4                                                | 44.9                                            | 5132                                             | 2837              |
| 6/6、6/10                      | 1                   | 500                                                    | 2.5                                                | 49.3                                            | 6382                                             | 3366              |
| 6/6、6/10                      | 3                   | 25                                                     | 2.5                                                | 46.7                                            | 4082                                             | 3629              |
| 6/6、6/10                      | 3                   | 35                                                     | 2.6                                                | 49.0                                            | 4544                                             | 3898              |
| 6/6、6/10                      | 3                   | 50                                                     | 2.7                                                | 51.7                                            | 5133                                             | 4276              |
| 6/6、6/10                      | 3                   | 70                                                     | 2.8                                                | 55.3                                            | 6111                                             | 4870              |
| 6/6、6/10                      | 3                   | 95                                                     | 2.9                                                | 59.2                                            | 7192                                             | 5479              |
| 6/6、6/10                      | 3                   | 120                                                    | 3.0                                                | 62.6                                            | 8209                                             | 6070              |
| 6/6、6/10                      | 3                   | 150                                                    | 3.1                                                | 65.8                                            | 9293                                             | 6652              |
| 6/6、6/10                      | 3                   | 185                                                    | 3.2                                                | 69.8                                            | 10776                                            | 7423              |
| 6/6、6/10                      | 3                   | 240                                                    | 3.4                                                | 76.4                                            | 13720                                            | 9341              |
| 6/6、6/10                      | 3                   | 300                                                    | 3.6                                                | 81.3                                            | 15998                                            | 10492             |
| 6/6、6/10                      | 3                   | 400                                                    | 3.8                                                | 87.2                                            | 18972                                            | 12007             |
| 6/6、6/10                      | 3                   | 500                                                    | 4.1                                                | 97.0                                            | 23338                                            | 14187             |
| 8.7/10、8.7/15                 | 1                   | 35                                                     | 1.9                                                | 28.7                                            | 1202                                             | 988               |
| 8.7/10、8.7/15                 | 1                   | 50                                                     | 1.9                                                | 29.8                                            | 1356                                             | 1071              |
| 8.7/10、8.7/15                 | 1                   | 70                                                     | 2.0                                                | 31.5                                            | 1625                                             | 1213              |
| 8.7/10、8.7/15                 | 1                   | 95                                                     | 2.1                                                | 34.2                                            | 2030                                             | 1460              |
| 8.7/10、8.7/15                 | 1                   | 120                                                    | 2.1                                                | 35.6                                            | 2316                                             | 1604              |
| 8.7/10、8.7/15                 | 1                   | 150                                                    | 2.1                                                | 37.0                                            | 2625                                             | 1747              |
| 8.7/10、8.7/15                 | 1                   | 185                                                    | 2.2                                                | 38.8                                            | 3060                                             | 1945              |
| 8.7/10、8.7/15                 | 1                   | 240                                                    | 2.3                                                | 41.2                                            | 3691                                             | 2235              |
| 8.7/10、8.7/15                 | 1                   | 300                                                    | 2.3                                                | 43.2                                            | 4328                                             | 2497              |
| 8.7/10、8.7/15                 | 1                   | 400                                                    | 2.5                                                | 47.3                                            | 5368                                             | 3051              |
| 8.7/10、8.7/15                 | 1                   | 500                                                    | 2.6                                                | 51.9                                            | 6678                                             | 3635              |
| 8.7/10、8.7/15                 | 1                   | 630                                                    | 2.7                                                | 56.0                                            | 8176                                             | 4263              |
| 8.7/10、8.7/15                 | 3                   | 25                                                     | 2.6                                                | 51.5                                            | 4597                                             | 4145              |
| 8.7/10、8.7/15                 | 3                   | 35                                                     | 2.7                                                | 53.9                                            | 5110                                             | 4467              |
| 8.7/10、8.7/15                 | 3                   | 50                                                     | 2.8                                                | 56.6                                            | 5732                                             | 4879              |
| 8.7/10、8.7/15                 | 3                   | 70                                                     | 2.9                                                | 60.2                                            | 6692                                             | 5457              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV72/Y<br>JV32                                  | YJLV72/<br>YJLV32 |
| 8.7/10、8.7/15                 | 3                   | 95                                                     | 3.1                                                | 64.4                                            | 7902                                             | 6186              |
| 8.7/10、8.7/15                 | 3                   | 120                                                    | 3.2                                                | 67.6                                            | 8891                                             | 6763              |
| 8.7/10、8.7/15                 | 3                   | 150                                                    | 3.3                                                | 72.3                                            | 10879                                            | 8252              |
| 8.7/10、8.7/15                 | 3                   | 185                                                    | 3.4                                                | 76.2                                            | 12355                                            | 9019              |
| 8.7/10、8.7/15                 | 3                   | 240                                                    | 3.6                                                | 81.4                                            | 14549                                            | 10191             |
| 8.7/10、8.7/15                 | 3                   | 300                                                    | 3.8                                                | 86.3                                            | 16872                                            | 11393             |
| 8.7/10、8.7/15                 | 3                   | 400                                                    | 4.0                                                | 94.4                                            | 20368                                            | 13388             |
| 8.7/10、8.7/15                 | 3                   | 500                                                    | 4.2                                                | 101.9                                           | 24290                                            | 15184             |
| 8.7/10、8.7/15                 | 3                   | 630                                                    | 4.5                                                | 111.2                                           | 29526                                            | 17819             |
| 12/20                         | 1                   | 35                                                     | 1.9                                                | 30.6                                            | 1315                                             | 1102              |
| 12/20                         | 1                   | 50                                                     | 2.0                                                | 31.9                                            | 1485                                             | 1202              |
| 12/20                         | 1                   | 70                                                     | 2.1                                                | 34.4                                            | 1843                                             | 1434              |
| 12/20                         | 1                   | 95                                                     | 2.1                                                | 36.1                                            | 2158                                             | 1593              |
| 12/20                         | 1                   | 120                                                    | 2.2                                                | 37.6                                            | 2455                                             | 1748              |
| 12/20                         | 1                   | 150                                                    | 2.2                                                | 39.0                                            | 2776                                             | 1904              |
| 12/20                         | 1                   | 185                                                    | 2.3                                                | 40.9                                            | 3216                                             | 2109              |
| 12/20                         | 1                   | 240                                                    | 2.3                                                | 43.1                                            | 3834                                             | 2388              |
| 12/20                         | 1                   | 300                                                    | 2.5                                                | 46.7                                            | 4677                                             | 2859              |
| 12/20                         | 1                   | 400                                                    | 2.6                                                | 49.3                                            | 5556                                             | 3256              |
| 12/20                         | 1                   | 500                                                    | 2.7                                                | 53.9                                            | 6861                                             | 3840              |
| 12/20                         | 3                   | 35                                                     | 2.9                                                | 58.5                                            | 5648                                             | 5005              |
| 12/20                         | 3                   | 50                                                     | 3.0                                                | 61.2                                            | 6287                                             | 5434              |
| 12/20                         | 3                   | 70                                                     | 3.1                                                | 64.7                                            | 7243                                             | 6008              |
| 12/20                         | 3                   | 95                                                     | 3.2                                                | 68.7                                            | 8435                                             | 6731              |
| 12/20                         | 3                   | 120                                                    | 3.4                                                | 73.6                                            | 10352                                            | 8224              |
| 12/20                         | 3                   | 150                                                    | 3.5                                                | 76.8                                            | 11543                                            | 8916              |
| 12/20                         | 3                   | 185                                                    | 3.6                                                | 80.8                                            | 13071                                            | 9735              |
| 12/20                         | 3                   | 240                                                    | 3.8                                                | 86.1                                            | 15297                                            | 10939             |
| 12/20                         | 3                   | 300                                                    | 3.9                                                | 90.8                                            | 17673                                            | 12194             |
| 12/20                         | 3                   | 400                                                    | 4.2                                                | 96.9                                            | 20741                                            | 13811             |
| 12/20                         | 3                   | 500                                                    | 4.4                                                | 106.5                                           | 25157                                            | 16052             |
| 18/20、18/30                   | 1                   | 50                                                     | 2.2                                                | 37.8                                            | 2045                                             | 1643              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV72/Y<br>JV32                                  | YJLV72/<br>YJLV32 |
| 18/20、18/30                   | 1                   | 70                                                     | 2.2                                                | 39.3                                            | 2373                                             | 1789              |
| 18/20、18/30                   | 1                   | 95                                                     | 2.3                                                | 41.2                                            | 2799                                             | 1988              |
| 18/20、18/30                   | 1                   | 120                                                    | 2.3                                                | 42.6                                            | 3156                                             | 2139              |
| 18/20、18/30                   | 1                   | 150                                                    | 2.4                                                | 45.3                                            | 3723                                             | 2468              |
| 18/20、18/30                   | 1                   | 185                                                    | 2.5                                                | 47.2                                            | 4289                                             | 2700              |
| 18/20、18/30                   | 1                   | 240                                                    | 2.6                                                | 49.6                                            | 5105                                             | 3025              |
| 18/20、18/30                   | 1                   | 300                                                    | 2.6                                                | 51.8                                            | 5955                                             | 3346              |
| 18/20、18/30                   | 1                   | 400                                                    | 2.8                                                | 54.6                                            | 7108                                             | 3790              |
| 18/20、18/30                   | 1                   | 500                                                    | 2.8                                                | 59.0                                            | 8703                                             | 4389              |
| 18/20、18/30                   | 3                   | 50                                                     | 3.4                                                | 73.9                                            | 8696                                             | 7843              |
| 18/20、18/30                   | 3                   | 70                                                     | 3.5                                                | 77.3                                            | 9725                                             | 8490              |
| 18/20、18/30                   | 3                   | 95                                                     | 3.7                                                | 81.5                                            | 11096                                            | 9392              |
| 18/20、18/30                   | 3                   | 120                                                    | 3.8                                                | 84.9                                            | 12233                                            | 10105             |
| 18/20、18/30                   | 3                   | 150                                                    | 3.9                                                | 88.1                                            | 13432                                            | 10804             |
| 18/20、18/30                   | 3                   | 185                                                    | 4.0                                                | 92.1                                            | 15157                                            | 11821             |
| 18/20、18/30                   | 3                   | 240                                                    | 4.2                                                | 97.4                                            | 17474                                            | 13116             |
| 18/20、18/30                   | 3                   | 300                                                    | 4.3                                                | 102.1                                           | 19885                                            | 14406             |
| 18/20、18/30                   | 3                   | 400                                                    | 4.6                                                | 108.2                                           | 23047                                            | 16118             |
| 18/20、18/30                   | 3                   | 500                                                    | 4.8                                                | 117.9                                           | 27597                                            | 18491             |
| 21/35                         | 1                   | 50                                                     | 2.3                                                | 40.4                                            | 2123                                             | 1839              |
| 21/35                         | 1                   | 70                                                     | 2.3                                                | 41.9                                            | 2411                                             | 2001              |
| 21/35                         | 1                   | 95                                                     | 2.4                                                | 45.0                                            | 2926                                             | 2361              |
| 21/35                         | 1                   | 120                                                    | 2.5                                                | 46.6                                            | 3254                                             | 2548              |
| 21/35                         | 1                   | 150                                                    | 2.5                                                | 48.0                                            | 3581                                             | 2709              |
| 21/35                         | 1                   | 185                                                    | 2.6                                                | 50.0                                            | 4089                                             | 2982              |
| 21/35                         | 1                   | 240                                                    | 2.7                                                | 52.4                                            | 4751                                             | 3305              |
| 21/35                         | 1                   | 300                                                    | 2.7                                                | 54.4                                            | 5433                                             | 3615              |
| 21/35                         | 1                   | 400                                                    | 2.8                                                | 57.3                                            | 6369                                             | 4070              |
| 21/35                         | 1                   | 500                                                    | 3                                                  | 64.2                                            | 8057                                             | 5036              |
| 21/35                         | 1                   | 630                                                    | 3.1                                                | 68.3                                            | 9610                                             | 5725              |
| 21/35                         | 3                   | 50                                                     | 3.6                                                | 79.8                                            | 9779                                             | 8926              |
| 21/35                         | 3                   | 70                                                     | 3.7                                                | 83.4                                            | 11018                                            | 9783              |



| 电压等级<br>voltage classes<br>kV | 芯数 Nos.<br>of cores | 标称截面<br>nominal<br>cross<br>section<br>mm <sup>2</sup> | 护套标称厚<br>度 Nominal<br>thickness<br>of sheath<br>mm | 计算外径<br>Calculated<br>outside<br>diameter<br>mm | 电缆计算重量<br>Calculated weight<br>of cable<br>kg/km |                   |
|-------------------------------|---------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------|
|                               |                     |                                                        |                                                    |                                                 | YJV72/Y<br>JV32                                  | YJLV72/<br>YJLV32 |
| 21/35                         | 3                   | 95                                                     | 3.9                                                | 87.4                                            | 12397                                            | 10693             |
| 21/35                         | 3                   | 120                                                    | 4                                                  | 90.8                                            | 13578                                            | 11450             |
| 21/35                         | 3                   | 150                                                    | 4.1                                                | 94.2                                            | 14921                                            | 12294             |
| 21/35                         | 3                   | 185                                                    | 4.2                                                | 98.0                                            | 16607                                            | 13271             |
| 21/35                         | 3                   | 240                                                    | 4.4                                                | 103.3                                           | 18989                                            | 14632             |
| 21/35                         | 3                   | 300                                                    | 4.5                                                | 108.0                                           | 21323                                            | 15844             |
| 21/35                         | 3                   | 400                                                    | 4.8                                                | 114.1                                           | 24506                                            | 17576             |
| 21/35                         | 3                   | 500                                                    | 5                                                  | 128.5                                           | 30476                                            | 21371             |
| 21/35                         | 3                   | 630                                                    | 5.2                                                | 137.7                                           | 35960                                            | 24252             |
| 26/35                         | 1                   | 50                                                     | 2.4                                                | 44.1                                            | 2483                                             | 2172              |
| 26/35                         | 1                   | 70                                                     | 2.5                                                | 45.8                                            | 2798                                             | 2355              |
| 26/35                         | 1                   | 95                                                     | 2.5                                                | 47.5                                            | 3151                                             | 2547              |
| 26/35                         | 1                   | 120                                                    | 2.6                                                | 49.0                                            | 3472                                             | 2723              |
| 26/35                         | 1                   | 150                                                    | 2.6                                                | 50.6                                            | 3838                                             | 2918              |
| 26/35                         | 1                   | 185                                                    | 2.7                                                | 52.5                                            | 4322                                             | 3162              |
| 26/35                         | 1                   | 240                                                    | 2.7                                                | 54.7                                            | 4983                                             | 3477              |
| 26/35                         | 1                   | 300                                                    | 2.8                                                | 57.1                                            | 5719                                             | 3834              |
| 26/35                         | 1                   | 400                                                    | 2.9                                                | 59.7                                            | 6645                                             | 4270              |
| 26/35                         | 1                   | 500                                                    | 3.1                                                | 66.6                                            | 8348                                             | 5238              |
| 26/35                         | 1                   | 630                                                    | 3.2                                                | 70.9                                            | 9946                                             | 5960              |
| 26/35                         | 3                   | 50                                                     | 3.8                                                | 85.2                                            | 10660                                            | 9807              |
| 26/35                         | 3                   | 70                                                     | 3.9                                                | 88.8                                            | 11924                                            | 10689             |
| 26/35                         | 3                   | 95                                                     | 4.1                                                | 92.9                                            | 13330                                            | 11626             |
| 26/35                         | 3                   | 120                                                    | 4.2                                                | 96.2                                            | 14534                                            | 12406             |
| 26/35                         | 3                   | 150                                                    | 4.3                                                | 99.6                                            | 15901                                            | 13273             |
| 26/35                         | 3                   | 185                                                    | 4.4                                                | 103.5                                           | 17612                                            | 14276             |
| 26/35                         | 3                   | 240                                                    | 4.6                                                | 108.8                                           | 20031                                            | 15673             |
| 26/35                         | 3                   | 300                                                    | 4.7                                                | 113.5                                           | 22395                                            | 16916             |
| 26/35                         | 3                   | 400                                                    | 5                                                  | 119.6                                           | 25621                                            | 18692             |
| 26/35                         | 3                   | 500                                                    | 5.2                                                | 134.3                                           | 31913                                            | 22807             |
| 26/35                         | 3                   | 630                                                    | 5.5                                                | 143.5                                           | 37479                                            | 25771             |


**导体短路电流：Conductor short-circuit current**

| 截面 nominal<br>cross section | 铜芯 cooper conductor I<br>kA |       |       | 铝芯 aluminum conductor I<br>kA |       |       |
|-----------------------------|-----------------------------|-------|-------|-------------------------------|-------|-------|
|                             | t=1s                        | t=3s  | t=5s  | t=1s                          | t=3s  | t=5s  |
| 25                          | 3.58                        | 2.07  | 1.60  | 2.36                          | 1.36  | 1.06  |
| 35                          | 5.01                        | 2.89  | 2.24  | 3.31                          | 1.91  | 1.48  |
| 50                          | 7.15                        | 4.13  | 3.20  | 4.72                          | 2.73  | 2.11  |
| 70                          | 10.02                       | 5.78  | 4.48  | 6.61                          | 3.82  | 2.96  |
| 95                          | 13.59                       | 7.85  | 6.08  | 8.98                          | 5.18  | 4.01  |
| 120                         | 17.17                       | 9.91  | 7.68  | 11.34                         | 6.55  | 5.07  |
| 150                         | 21.46                       | 12.39 | 9.60  | 14.17                         | 8.18  | 6.34  |
| 185                         | 26.47                       | 15.28 | 11.84 | 17.48                         | 10.09 | 7.82  |
| 240                         | 34.34                       | 19.83 | 15.36 | 22.68                         | 13.09 | 10.14 |
| 300                         | 42.93                       | 24.78 | 19.20 | 28.35                         | 16.37 | 12.68 |
| 400                         | 57.23                       | 33.04 | 25.60 | 37.79                         | 21.82 | 16.90 |
| 500                         | 71.54                       | 41.30 | 31.99 | 47.24                         | 27.28 | 21.13 |
| 630                         | 90.14                       | 52.04 | 40.31 | 59.52                         | 34.37 | 26.62 |



载流量(包含修正系数): Current carrying capacity (including correction factor)

铜芯电力电缆载流量 (A) copper core power cable carrying capacity (A)

| 电缆型号 Type of cable                               | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape<br>armoured type cable |            |            |            |
|--------------------------------------------------|--------------------------------------------------------|-------------------------|------------|------------|------------|-------------------------------------------|------------|------------|------------|
|                                                  |                                                        | 单芯 single<br>core       |            | 三芯 3 cores |            | 单芯 single<br>core                         |            | 三芯 3 cores |            |
|                                                  |                                                        | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJV-3.6/6 kV<br>YJV62-3.6/6 kV<br>YJV22-3.6/6 kV | 25                                                     | 135                     | 190        | 120        | 135        | 135                                       | 190        | 115        | 140        |
|                                                  | 35                                                     | 165                     | 230        | 145        | 165        | 165                                       | 230        | 145        | 165        |
|                                                  | 50                                                     | 200                     | 275        | 175        | 195        | 200                                       | 275        | 170        | 195        |
|                                                  | 70                                                     | 250                     | 335        | 215        | 240        | 250                                       | 335        | 210        | 240        |
|                                                  | 95                                                     | 305                     | 400        | 265        | 290        | 305                                       | 400        | 265        | 285        |
|                                                  | 120                                                    | 355                     | 465        | 305        | 325        | 355                                       | 465        | 300        | 325        |
|                                                  | 150                                                    | 405                     | 525        | 345        | 370        | 405                                       | 525        | 340        | 370        |
|                                                  | 185                                                    | 465                     | 600        | 400        | 415        | 465                                       | 600        | 390        | 415        |
|                                                  | 240                                                    | 550                     | 695        | 470        | 485        | 550                                       | 695        | 455        | 480        |
|                                                  | 300                                                    | 635                     | 785        | 535        | 540        | 635                                       | 785        | 520        | 545        |
|                                                  | 400                                                    | 745                     | 895        | 620        | 620        | 745                                       | 895        | 600        | 615        |
|                                                  | 500                                                    | 855                     | 1010       | 710        | 710        | 855                                       | 1010       | 685        | 695        |
|                                                  | 630                                                    | 980                     | 1140       | 810        | 810        | 980                                       | 1140       | 780        | 785        |
|                                                  | 800                                                    | 1130                    | 1270       | 935        | 935        | 1130                                      | 1270       | 900        | 900        |

| 电缆型号 Type of cable                            | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape<br>armoured type cable |            |            |            |
|-----------------------------------------------|--------------------------------------------------------|-------------------------|------------|------------|------------|-------------------------------------------|------------|------------|------------|
|                                               |                                                        | 单芯 single<br>core       |            | 三芯 3 cores |            | 单芯 single<br>core                         |            | 三芯 3 cores |            |
|                                               |                                                        | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJV-6/10 kV<br>YJV62-6/10 kV<br>YJV22-6/10 kV | 25                                                     | 140                     | 190        | 120        | 135        | 140                                       | 190        | 115        | 140        |
|                                               | 35                                                     | 175                     | 225        | 145        | 165        | 175                                       | 225        | 145        | 165        |
|                                               | 50                                                     | 205                     | 270        | 175        | 190        | 205                                       | 270        | 170        | 195        |
|                                               | 70                                                     | 260                     | 335        | 220        | 240        | 260                                       | 335        | 210        | 240        |
|                                               | 95                                                     | 315                     | 405        | 265        | 285        | 315                                       | 405        | 265        | 285        |
|                                               | 120                                                    | 365                     | 460        | 305        | 320        | 365                                       | 460        | 300        | 325        |
|                                               | 150                                                    | 415                     | 520        | 350        | 365        | 415                                       | 520        | 340        | 370        |
|                                               | 185                                                    | 475                     | 585        | 395        | 410        | 475                                       | 585        | 390        | 415        |
|                                               | 240                                                    | 565                     | 690        | 470        | 480        | 565                                       | 690        | 455        | 480        |
|                                               | 300                                                    | 645                     | 775        | 535        | 540        | 645                                       | 775        | 520        | 545        |
|                                               | 400                                                    | 750                     | 890        | 610        | 610        | 750                                       | 890        | 600        | 615        |
|                                               | 500                                                    | 865                     | 1010       | 700        | 695        | 865                                       | 1010       | 685        | 695        |
|                                               | 630                                                    | 990                     | 1130       | 800        | 795        | 990                                       | 1130       | 780        | 785        |
|                                               | 800                                                    | 1140                    | 1270       | 930        | 920        | 1140                                      | 1270       | 900        | 900        |



| 电缆型号 Type of cable                                  | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape armoured type cable |            |            |            |
|-----------------------------------------------------|--------------------------------------------------------|-------------------------|------------|------------|------------|----------------------------------------|------------|------------|------------|
|                                                     |                                                        | 单芯 single core          |            | 三芯 3 cores |            | 单芯 single core                         |            | 三芯 3 cores |            |
|                                                     |                                                        | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                              | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJV-8.7/15 kV<br>YJV62-8.7/15 kV<br>YJV22-8.7/15 kV | 25                                                     | 140                     | 190        | 120        | 135        | 140                                    | 190        | 125        | 135        |
|                                                     | 35                                                     | 175                     | 225        | 145        | 165        | 175                                    | 225        | 150        | 165        |
|                                                     | 50                                                     | 205                     | 270        | 175        | 190        | 205                                    | 270        | 180        | 190        |
|                                                     | 70                                                     | 260                     | 335        | 220        | 240        | 260                                    | 335        | 220        | 240        |
|                                                     | 95                                                     | 315                     | 405        | 265        | 285        | 315                                    | 405        | 265        | 285        |
|                                                     | 120                                                    | 365                     | 460        | 305        | 320        | 365                                    | 460        | 310        | 320        |
|                                                     | 150                                                    | 415                     | 520        | 350        | 365        | 415                                    | 520        | 350        | 365        |
|                                                     | 185                                                    | 475                     | 585        | 395        | 410        | 475                                    | 585        | 400        | 410        |
|                                                     | 240                                                    | 565                     | 690        | 470        | 480        | 565                                    | 690        | 465        | 480        |
|                                                     | 300                                                    | 645                     | 775        | 535        | 540        | 645                                    | 775        | 535        | 540        |
|                                                     | 400                                                    | 750                     | 890        | 610        | 610        | 750                                    | 890        | 615        | 610        |
|                                                     | 500                                                    | 865                     | 1010       | 700        | 695        | 865                                    | 1010       | 705        | 695        |
|                                                     | 630                                                    | 990                     | 1130       | 800        | 795        | 990                                    | 1130       | 805        | 795        |
|                                                     | 800                                                    | 1140                    | 1270       | 930        | 920        | 1140                                   | 1270       | 935        | 920        |

| 电缆型号 Type of cable                                                                                   | 标称截面<br>Steel tape<br>armoured<br>type cable<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape armoured type cable |            |            |            |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------|------------|------------|------------|----------------------------------------|------------|------------|------------|
|                                                                                                      |                                                                 | 单芯 single core          |            | 三芯 3 cores |            | 单芯 single core                         |            | 三芯 3 cores |            |
|                                                                                                      |                                                                 | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                              | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJV-12/20 kV<br>YJV62-12/20 kV<br>YJV22-12/20 kV<br>YJV-18/20 kV<br>YJV62-18/20 kV<br>YJV22-18/20 kV | 25                                                              | 145                     | 185        | 120        | 135        | 145                                    | 185        | 125        | 135        |
|                                                                                                      | 35                                                              | 175                     | 225        | 150        | 160        | 175                                    | 225        | 150        | 160        |
|                                                                                                      | 50                                                              | 210                     | 270        | 175        | 190        | 210                                    | 270        | 180        | 190        |
|                                                                                                      | 70                                                              | 260                     | 330        | 220        | 235        | 260                                    | 330        | 220        | 235        |
|                                                                                                      | 95                                                              | 320                     | 400        | 265        | 285        | 320                                    | 400        | 265        | 285        |
|                                                                                                      | 120                                                             | 370                     | 460        | 305        | 320        | 370                                    | 460        | 310        | 320        |
|                                                                                                      | 150                                                             | 420                     | 520        | 350        | 365        | 420                                    | 520        | 350        | 365        |
|                                                                                                      | 185                                                             | 480                     | 585        | 395        | 410        | 480                                    | 585        | 400        | 410        |
|                                                                                                      | 240                                                             | 565                     | 680        | 465        | 475        | 565                                    | 680        | 465        | 475        |
|                                                                                                      | 300                                                             | 650                     | 775        | 530        | 535        | 650                                    | 775        | 535        | 535        |
|                                                                                                      | 400                                                             | 755                     | 885        | 615        | 605        | 755                                    | 885        | 615        | 605        |
|                                                                                                      | 500                                                             | 865                     | 1000       | 705        | 695        | 865                                    | 1000       | 700        | 690        |
|                                                                                                      | 630                                                             | 1000                    | 1140       | 810        | 800        | 1000                                   | 1140       | 805        | 795        |
|                                                                                                      | 800                                                             | 1140                    | 1270       | 945        | 935        | 1140                                   | 1270       | 935        | 925        |



| 电缆型号 Type of cable                                                                                   | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |         |            |         | 钢带铠装型电缆 Steel tape armoured type cable |         |            |         |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------|---------|------------|---------|----------------------------------------|---------|------------|---------|
|                                                                                                      |                                                        | 单芯 single core          |         | 三芯 3 cores |         | 单芯 single core                         |         | 三芯 3 cores |         |
|                                                                                                      |                                                        | 空气 air                  | 土壤 soil | 空气 air     | 土壤 soil | 空气 air                                 | 土壤 soil | 空气 air     | 土壤 soil |
| YJV-21/35 kV<br>YJV62-21/35 kV<br>YJV22-21/35 kV<br>YJV-26/35 kV<br>YJV62-26/35 kV<br>YJV22-26/35 kV | 25                                                     | 150                     | 185     | 125        | 135     | 150                                    | 185     | 125        | 135     |
|                                                                                                      | 35                                                     | 180                     | 220     | 150        | 160     | 180                                    | 220     | 150        | 160     |
|                                                                                                      | 50                                                     | 215                     | 260     | 180        | 190     | 215                                    | 260     | 180        | 190     |
|                                                                                                      | 70                                                     | 270                     | 320     | 220        | 230     | 270                                    | 320     | 220        | 230     |
|                                                                                                      | 95                                                     | 330                     | 390     | 265        | 275     | 330                                    | 390     | 265        | 275     |
|                                                                                                      | 120                                                    | 380                     | 445     | 305        | 315     | 380                                    | 445     | 310        | 315     |
|                                                                                                      | 150                                                    | 430                     | 500     | 345        | 355     | 430                                    | 500     | 350        | 355     |
|                                                                                                      | 185                                                    | 490                     | 570     | 390        | 400     | 490                                    | 570     | 400        | 400     |
|                                                                                                      | 240                                                    | 575                     | 665     | 455        | 460     | 575                                    | 665     | 465        | 460     |
|                                                                                                      | 300                                                    | 660                     | 750     | 525        | 520     | 660                                    | 750     | 535        | 520     |
|                                                                                                      | 400                                                    | 765                     | 865     | 600        | 590     | 765                                    | 865     | 615        | 590     |
|                                                                                                      | 500                                                    | 875                     | 980     | 690        | 680     | 875                                    | 980     | 700        | 675     |
|                                                                                                      | 630                                                    | 1010                    | 1110    | 795        | 785     | 1010                                   | 1110    | 805        | 780     |
|                                                                                                      | 800                                                    | 1150                    | 1250    | 930        | 920     | 1150                                   | 1250    | 935        | 910     |

注 note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0 Ambient temperature in air 40℃; The ambient temperature in soil 25℃ and the thermal resistance coefficient is 1.0



铝芯电力电缆载流量 (A) Aluminum Core Power Cable Capacity (A)

| 电缆型号 Type of cable                                  | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape armoured type cable |            |            |            |
|-----------------------------------------------------|--------------------------------------------------------|-------------------------|------------|------------|------------|----------------------------------------|------------|------------|------------|
|                                                     |                                                        | 单芯 single core          |            | 三芯 3 cores |            | 单芯 single core                         |            | 三芯 3 cores |            |
|                                                     |                                                        | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                              | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJLV-3.6/6 kV<br>YJLV62-3.6/6 kV<br>YJLV22-3.6/6 kV | 25                                                     | 105                     | 145        | 93         | 105        | 105                                    | 145        | 85         | 105        |
|                                                     | 35                                                     | 130                     | 175        | 110        | 125        | 130                                    | 175        | 110        | 125        |
|                                                     | 50                                                     | 155                     | 210        | 135        | 150        | 155                                    | 210        | 130        | 150        |
|                                                     | 70                                                     | 195                     | 260        | 170        | 185        | 195                                    | 260        | 165        | 185        |
|                                                     | 95                                                     | 235                     | 315        | 205        | 225        | 235                                    | 315        | 200        | 220        |
|                                                     | 120                                                    | 275                     | 360        | 235        | 255        | 275                                    | 360        | 235        | 255        |
|                                                     | 150                                                    | 315                     | 410        | 270        | 285        | 315                                    | 410        | 265        | 285        |
|                                                     | 185                                                    | 360                     | 465        | 310        | 325        | 360                                    | 465        | 305        | 325        |
|                                                     | 240                                                    | 430                     | 540        | 365        | 380        | 430                                    | 540        | 355        | 375        |
|                                                     | 300                                                    | 495                     | 615        | 420        | 425        | 495                                    | 615        | 410        | 425        |
|                                                     | 400                                                    | 585                     | 705        | 495        | 490        | 585                                    | 705        | 475        | 485        |
|                                                     | 500                                                    | 685                     | 810        | 585        | 575        | 685                                    | 810        | 550        | 560        |
|                                                     | 630                                                    | 800                     | 920        | 695        | 685        | 800                                    | 920        | 640        | 650        |
|                                                     | 800                                                    | 930                     | 1050       | 820        | 810        | 930                                    | 1050       | 760        | 765        |

| 电缆型号 Type of cable                               | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored cable |            |            |            | 钢带铠装型电缆 Steel tape armoured type cable |            |            |            |
|--------------------------------------------------|--------------------------------------------------------|-------------------------|------------|------------|------------|----------------------------------------|------------|------------|------------|
|                                                  |                                                        | 单芯 single core          |            | 三芯 3 cores |            | 单芯 single core                         |            | 三芯 3 cores |            |
|                                                  |                                                        | 空气<br>air               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                              | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJLV-6/10 kV<br>YJLV62-6/10 kV<br>YJLV22-6/10 kV | 25                                                     | 110                     | 145        | 95         | 105        | 110                                    | 145        | 85         | 105        |
|                                                  | 35                                                     | 135                     | 175        | 115        | 125        | 135                                    | 175        | 110        | 125        |
|                                                  | 50                                                     | 160                     | 210        | 135        | 150        | 160                                    | 210        | 130        | 150        |
|                                                  | 70                                                     | 200                     | 260        | 170        | 185        | 200                                    | 260        | 165        | 185        |
|                                                  | 95                                                     | 245                     | 315        | 205        | 220        | 245                                    | 315        | 200        | 220        |
|                                                  | 120                                                    | 285                     | 360        | 235        | 250        | 285                                    | 360        | 235        | 255        |
|                                                  | 150                                                    | 320                     | 405        | 270        | 280        | 320                                    | 405        | 265        | 285        |
|                                                  | 185                                                    | 370                     | 455        | 310        | 320        | 370                                    | 455        | 305        | 325        |
|                                                  | 240                                                    | 440                     | 535        | 370        | 375        | 440                                    | 535        | 355        | 375        |
|                                                  | 300                                                    | 505                     | 605        | 420        | 425        | 505                                    | 605        | 410        | 425        |
|                                                  | 400                                                    | 590                     | 705        | 485        | 485        | 590                                    | 705        | 475        | 485        |
|                                                  | 500                                                    | 690                     | 805        | 575        | 570        | 690                                    | 805        | 550        | 560        |
|                                                  | 630                                                    | 800                     | 920        | 675        | 670        | 800                                    | 920        | 640        | 650        |
|                                                  | 800                                                    | 940                     | 1050       | 805        | 795        | 940                                    | 1050       | 760        | 765        |



| 电缆型号 Type of cable                                     | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored<br>cable |            |            |            | 钢带铠装型电缆 Steel tape<br>armoured type cable |            |            |            |
|--------------------------------------------------------|--------------------------------------------------------|----------------------------|------------|------------|------------|-------------------------------------------|------------|------------|------------|
|                                                        |                                                        | 单芯 single<br>core          |            | 三芯 3 cores |            | 单芯 single<br>core                         |            | 三芯 3 cores |            |
|                                                        |                                                        | 空气<br>air                  | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJLV-8.7/15 kV<br>YJLV62-8.7/15 kV<br>YJLV22-8.7/15 kV | 25                                                     | 110                        | 145        | 95         | 105        | 110                                       | 145        | 90         | 105        |
|                                                        | 35                                                     | 135                        | 175        | 115        | 125        | 135                                       | 175        | 115        | 125        |
|                                                        | 50                                                     | 160                        | 210        | 135        | 150        | 160                                       | 210        | 140        | 150        |
|                                                        | 70                                                     | 200                        | 260        | 170        | 185        | 200                                       | 260        | 170        | 185        |
|                                                        | 95                                                     | 245                        | 315        | 205        | 220        | 245                                       | 315        | 205        | 220        |
|                                                        | 120                                                    | 285                        | 360        | 235        | 250        | 285                                       | 360        | 240        | 250        |
|                                                        | 150                                                    | 320                        | 405        | 270        | 280        | 320                                       | 405        | 270        | 280        |
|                                                        | 185                                                    | 370                        | 455        | 310        | 320        | 370                                       | 455        | 310        | 320        |
|                                                        | 240                                                    | 440                        | 535        | 370        | 375        | 440                                       | 535        | 360        | 375        |
|                                                        | 300                                                    | 505                        | 605        | 420        | 425        | 505                                       | 605        | 420        | 425        |
|                                                        | 400                                                    | 590                        | 705        | 485        | 485        | 590                                       | 705        | 485        | 485        |
|                                                        | 500                                                    | 690                        | 805        | 575        | 570        | 690                                       | 805        | 565        | 570        |
|                                                        | 630                                                    | 800                        | 920        | 675        | 670        | 800                                       | 920        | 665        | 670        |
|                                                        | 800                                                    | 940                        | 1050       | 805        | 795        | 940                                       | 1050       | 795        | 795        |

| 电缆型号 Type of cable                                | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 Steel tape armoured<br>type cable |            |            |            | 钢带铠装型电缆 Steel tape<br>armoured type cable |            |            |            |
|---------------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------|------------|------------|-------------------------------------------|------------|------------|------------|
|                                                   |                                                        | 单芯 single<br>core                       |            | 三芯 3 cores |            | 单芯 single<br>core                         |            | 三芯 3 cores |            |
|                                                   |                                                        | 空气<br>air                               | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air  | 土壤<br>soil |
| YJLV-18/20 kV<br>YJLV62-18/20kV<br>YJLV22-18/20kV | 25                                                     | 110                                     | 145        | 96         | 105        | 110                                       | 145        | 90         | 105        |
|                                                   | 35                                                     | 135                                     | 175        | 115        | 125        | 135                                       | 175        | 115        | 125        |
|                                                   | 50                                                     | 160                                     | 210        | 135        | 150        | 160                                       | 210        | 140        | 150        |
|                                                   | 70                                                     | 200                                     | 255        | 170        | 185        | 200                                       | 255        | 170        | 185        |
|                                                   | 95                                                     | 245                                     | 310        | 205        | 220        | 245                                       | 310        | 205        | 220        |
|                                                   | 120                                                    | 285                                     | 345        | 235        | 250        | 285                                       | 345        | 240        | 250        |
|                                                   | 150                                                    | 325                                     | 400        | 270        | 285        | 325                                       | 400        | 270        | 285        |
|                                                   | 185                                                    | 375                                     | 455        | 310        | 320        | 375                                       | 455        | 310        | 320        |
|                                                   | 240                                                    | 440                                     | 530        | 365        | 370        | 440                                       | 530        | 360        | 370        |
|                                                   | 300                                                    | 510                                     | 605        | 415        | 420        | 510                                       | 605        | 420        | 420        |
|                                                   | 400                                                    | 595                                     | 700        | 485        | 480        | 595                                       | 700        | 485        | 480        |
|                                                   | 500                                                    | 690                                     | 795        | 575        | 570        | 690                                       | 795        | 565        | 560        |
|                                                   | 630                                                    | 810                                     | 920        | 680        | 675        | 810                                       | 920        | 665        | 665        |
|                                                   | 800                                                    | 940                                     | 1040       | 815        | 810        | 940                                       | 1040       | 795        | 795        |



| 电缆型号 Type of cable                                                                                     | 标称截面<br>nominal<br>Cross<br>section<br>mm <sup>2</sup> | 非铠型电缆 non-armored<br>cable |            |            |            | 钢带铠装型电缆 Steel tape armoured<br>type cable |            |            |         |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|------------|------------|------------|-------------------------------------------|------------|------------|---------|
|                                                                                                        |                                                        | 单芯 single<br>core          |            | 三芯 3 cores |            | 单芯 single<br>core                         |            | 三芯 3 cores |         |
|                                                                                                        |                                                        | 空气<br>air                  | 土壤<br>soil | 空气<br>air  | 土壤<br>soil | 空气<br>air                                 | 土壤<br>soil | 空气<br>air  | 土壤 soil |
| YJLV-21/35 kV<br>YJLV62-21/35kV<br>YJLV22-21/35kV<br>YJLV-26/35 kV<br>YJLV62-26/35kV<br>YJLV22-26/35kV | 25                                                     | 115                        | 140        | 98         | 105        | 115                                       | 140        | 90         | 105     |
|                                                                                                        | 35                                                     | 140                        | 170        | 115        | 125        | 140                                       | 170        | 115        | 125     |
|                                                                                                        | 50                                                     | 170                        | 200        | 140        | 145        | 170                                       | 200        | 140        | 145     |
|                                                                                                        | 70                                                     | 210                        | 250        | 170        | 180        | 210                                       | 250        | 170        | 180     |
|                                                                                                        | 95                                                     | 255                        | 300        | 205        | 215        | 255                                       | 300        | 205        | 215     |
|                                                                                                        | 120                                                    | 295                        | 345        | 235        | 245        | 295                                       | 345        | 240        | 245     |
|                                                                                                        | 150                                                    | 330                        | 395        | 270        | 275        | 330                                       | 395        | 270        | 275     |
|                                                                                                        | 185                                                    | 380                        | 440        | 305        | 310        | 380                                       | 440        | 310        | 310     |
|                                                                                                        | 240                                                    | 450                        | 515        | 355        | 360        | 450                                       | 515        | 360        | 360     |
|                                                                                                        | 300                                                    | 515                        | 585        | 410        | 410        | 515                                       | 585        | 420        | 410     |
|                                                                                                        | 400                                                    | 600                        | 680        | 470        | 465        | 600                                       | 680        | 485        | 465     |
|                                                                                                        | 500                                                    | 695                        | 775        | 560        | 555        | 695                                       | 775        | 565        | 535     |
|                                                                                                        | 630                                                    | 810                        | 895        | 665        | 660        | 810                                       | 895        | 665        | 625     |
|                                                                                                        | 800                                                    | 940                        | 1020       | 800        | 795        | 940                                       | 1020       | 795        | 750     |

注 note: 空气中环境温度 40℃; 土壤中环境温度 25℃、热阻系数 1.0 Ambient temperature in the air 40℃; The ambient temperature in the soil is 25℃ and the thermal resistance coefficient is 1.0

环境温度不同时的载流量修正系数表 Table of correction coefficient of carrying current at different ambient temperature

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 空气中环境温度℃ Ambient temperature in the air |      |      |      |      |      |      |      |
|------------------------------------------------------|-----------------------------------------|------|------|------|------|------|------|------|
|                                                      | 20                                      | 25   | 30   | 35   | 40   | 45   | 50   | 55   |
| 90                                                   | 1.23                                    | 1.17 | 1.12 | 1.06 | 1.00 | 0.94 | 0.87 | 0.81 |

| 导体工作温度<br>Conductor<br>operating<br>temperature<br>℃ | 土壤中环境温度℃ Ambient temperature in soil |      |      |      |      |      |      |  |
|------------------------------------------------------|--------------------------------------|------|------|------|------|------|------|--|
|                                                      | 10                                   | 15   | 20   | 25   | 30   | 35   | 40   |  |
| 90                                                   | 1.11                                 | 1.07 | 1.04 | 1.00 | 0.96 | 0.92 | 0.88 |  |



不同土壤热阻系数的载流量修正系数 Current-carrying correction coefficients of different soil thermal resistance coefficients

|                                                            |     |      |      |      |      |
|------------------------------------------------------------|-----|------|------|------|------|
| 热阻系数<br>thermal<br>resistivity<br>$\rho_w = (K \cdot m/W)$ | 1.0 | 1.2  | 1.5  | 2.0  | 2.5  |
| 校正系数<br>correction<br>coefficient                          | 1   | 0.93 | 0.85 | 0.75 | 0.67 |

电容: capacitance

| 导体标称截面<br>Nominal cross<br>section of<br>conductor $mm^2$ | 额定电压 Rated Voltage<br>kV                 |          |                  |       |       |       |       |
|-----------------------------------------------------------|------------------------------------------|----------|------------------|-------|-------|-------|-------|
|                                                           | 3.6/6                                    | 6/6 6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/30 | 21/35 | 26/35 |
|                                                           | 每相电容 Capacitance per phase<br>$\mu F/km$ |          |                  |       |       |       |       |
| 25                                                        | 0.274                                    | 0.217    | 0.177            | 0.155 | 0.126 | 0.116 | 0.108 |
| 35                                                        | 0.301                                    | 0.237    | 0.193            | 0.168 | 0.135 | 0.124 | 0.115 |
| 50                                                        | 0.340                                    | 0.266    | 0.215            | 0.186 | 0.148 | 0.135 | 0.125 |
| 70                                                        | 0.384                                    | 0.298    | 0.240            | 0.207 | 0.163 | 0.148 | 0.137 |
| 95                                                        | 0.431                                    | 0.333    | 0.266            | 0.229 | 0.178 | 0.161 | 0.149 |
| 120                                                       | 0.475                                    | 0.366    | 0.291            | 0.249 | 0.193 | 0.173 | 0.160 |
| 150                                                       | 0.517                                    | 0.396    | 0.315            | 0.268 | 0.206 | 0.185 | 0.170 |
| 185                                                       | 0.567                                    | 0.433    | 0.343            | 0.291 | 0.222 | 0.199 | 0.183 |
| 240                                                       | 0.615                                    | 0.485    | 0.382            | 0.324 | 0.245 | 0.219 | 0.200 |
| 300                                                       | 0.631                                    | 0.531    | 0.416            | 0.352 | 0.264 | 0.236 | 0.215 |
| 400                                                       | 0.662                                    | 0.591    | 0.462            | 0.390 | 0.291 | 0.258 | 0.235 |
| 500                                                       | 0.695                                    | 0.658    | 0.513            | 0.431 | 0.319 | 0.283 | 0.257 |
| 630                                                       | 0.782                                    | 0.740    | 0.575            | 0.482 | 0.355 | 0.314 | 0.285 |
| 800                                                       | 0.881                                    | 0.833    | 0.645            | 0.540 | 0.391 | 0.345 | 0.312 |



## 单芯电缆电感: Single core cable inductance

| 导体标称截面<br>Nominal cross<br>section of<br>conductor<br>mm <sup>2</sup> | 额定电压 Rated Voltage<br>kV          |          |                  |       |       |       |       |
|-----------------------------------------------------------------------|-----------------------------------|----------|------------------|-------|-------|-------|-------|
|                                                                       | 3.6/6                             | 6/6 6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/30 | 21/35 | 26/35 |
|                                                                       | 电感 electrical inductance<br>mH/km |          |                  |       |       |       |       |
| 25                                                                    | 0.577                             | 0.593    | 0.612            | --    | --    | --    | --    |
| 35                                                                    | 0.559                             | 0.574    | 0.592            | 0.607 | --    | --    | --    |
| 50                                                                    | 0.534                             | 0.549    | 0.566            | 0.581 | 0.614 | 0.635 | 0.649 |
| 70                                                                    | 0.514                             | 0.527    | 0.544            | 0.559 | 0.596 | 0.610 | 0.623 |
| 95                                                                    | 0.497                             | 0.511    | 0.525            | 0.539 | 0.575 | 0.589 | 0.601 |
| 120                                                                   | 0.482                             | 0.495    | 0.511            | 0.524 | 0.558 | 0.572 | 0.583 |
| 150                                                                   | 0.473                             | 0.485    | 0.499            | 0.523 | 0.545 | 0.557 | 0.569 |
| 185                                                                   | 0.461                             | 0.473    | 0.494            | 0.510 | 0.531 | 0.544 | 0.554 |
| 240                                                                   | 0.449                             | 0.466    | 0.479            | 0.494 | 0.514 | 0.526 | 0.535 |
| 300                                                                   | 0.450                             | 0.456    | 0.468            | 0.483 | 0.501 | 0.512 | 0.522 |
| 400                                                                   | 0.440                             | 0.445    | 0.456            | 0.469 | 0.486 | 0.497 | 0.506 |
| 500                                                                   | 0.438                             | 0.440    | 0.451            | 0.463 | 0.479 | 0.497 | 0.504 |
| 630                                                                   | 0.429                             | 0.431    | 0.440            | 0.452 | 0.467 | 0.483 | 0.491 |
| 800                                                                   | 0.421                             | 0.422    | 0.432            | 0.442 | 0.456 | 0.471 | 0.478 |

## 三芯电缆电感: three cores cable electrical inductance

| 导体标称截面<br>Nominal cross<br>section of<br>conductor<br>mm <sup>2</sup> | 额定电压 rated voltage<br>kV          |          |                  |       |       |       |       |
|-----------------------------------------------------------------------|-----------------------------------|----------|------------------|-------|-------|-------|-------|
|                                                                       | 3.6/6                             | 6/6 6/10 | 8.7/10<br>8.7/15 | 12/20 | 18/30 | 21/35 | 26/35 |
|                                                                       | 电感 electrical inductance<br>mH/km |          |                  |       |       |       |       |
| 25                                                                    | 0.356                             | 0.380    | 0.405            | 0.426 | 0.473 | 0.492 | 0.508 |
| 35                                                                    | 0.341                             | 0.363    | 0.387            | 0.407 | 0.452 | 0.471 | 0.487 |
| 50                                                                    | 0.323                             | 0.344    | 0.366            | 0.385 | 0.428 | 0.445 | 0.460 |
| 70                                                                    | 0.308                             | 0.327    | 0.348            | 0.365 | 0.405 | 0.422 | 0.436 |
| 95                                                                    | 0.295                             | 0.312    | 0.332            | 0.348 | 0.386 | 0.401 | 0.415 |
| 120                                                                   | 0.285                             | 0.301    | 0.319            | 0.335 | 0.370 | 0.386 | 0.399 |
| 150                                                                   | 0.278                             | 0.293    | 0.310            | 0.324 | 0.358 | 0.373 | 0.386 |
| 185                                                                   | 0.270                             | 0.284    | 0.300            | 0.314 | 0.346 | 0.360 | 0.372 |
| 240                                                                   | 0.263                             | 0.274    | 0.289            | 0.301 | 0.331 | 0.344 | 0.356 |
| 300                                                                   | 0.259                             | 0.267    | 0.281            | 0.292 | 0.321 | 0.333 | 0.344 |
| 400                                                                   | 0.255                             | 0.259    | 0.272            | 0.283 | 0.309 | 0.320 | 0.330 |
| 500                                                                   | 0.250                             | 0.253    | 0.264            | 0.274 | 0.298 | 0.309 | 0.318 |
| 630                                                                   | 0.244                             | 0.246    | 0.256            | 0.265 | 0.287 | 0.297 | 0.306 |
| 800                                                                   | 0.239                             | 0.240    | 0.250            | 0.258 | 0.279 | 0.288 | 0.296 |



电缆安装时的最小弯曲半径: Minimum bending radius during cable installation:

|                                                                                                            | 单芯电缆 single core cable |                 | 三芯电缆 three-core cable |                 |
|------------------------------------------------------------------------------------------------------------|------------------------|-----------------|-----------------------|-----------------|
|                                                                                                            | 无铠装<br>non-armored     | 有铠装<br>armoring | 无铠装<br>non-armored    | 有铠装<br>armoring |
| 安装时的电缆最小弯曲半径<br>Minimum bending radius of the cable during installation                                    | 20D                    | 15D             | 15D                   | 12D             |
| 靠近连接盒和终端时<br>电缆最小弯曲半径 Near<br>the connection box and<br>terminal<br>Minimum bending radius<br>of the cable | 15D                    | 12D             | 12D                   | 10D             |
| 注 note: D 为电缆外径 D is the outer diameter of the cable                                                       |                        |                 |                       |                 |

**电缆装卸、运输、敷设要求: Cable loading and unloading, transportation, laying requirements**

1、确认收货前应对电缆外观进行检查,确认电缆本体、两端封帽无擦伤、撞伤、压伤等破损现象,如有异常应及时联系我司,否则视为交付产品的外观质量符合要求。Before accepting the goods, the appearance of the cable should be checked to ensure that the cable body and the sealing caps at both ends are free from any damage such as scratches, bumps, or crush. If any abnormality occurs, please contact us in time. Otherwise, the appearance quality of the delivered products shall be deemed to meet the requirements.

2、电缆吊装、运输、敷设过程要妥善保管,电缆本体及两端封帽要确保无破损,防止雨水或其它有害气体、液体进入电缆内部,导致电缆电性能受到影响。光电复合电缆两端预留长度的光缆单元不能被单独施加外力、不能发生大于 45° 的弯折,防止光纤折断,难以接续。Cable shall be properly protected while hoisting, transportation, and in laying process, the cable and caps at both ends have to remain in good condition to prevent rain or other harmful gases, liquids into the cable, to affect cable electrical performance. The optical fiber power composite cable units with the reserved length at both ends cannot be applied by external forces alone or bend more than 45 degrees to prevent the optical fiber from being broken and difficult to connect.

3、电缆长时间存放处应干燥,避免长时间暴露于露天或潮湿地方,低烟无卤阻燃电缆(WDZ)、柔性防火电缆等产品不得长期处于露天环境下,以免因长期暴晒导致电缆护套颜色变化及护套机械性能收到影响。Cable should be stored in dry place, avoid long-term exposure to open air or humid places, low-smoke halogen-free flame retardant cable (WDZ), flexible fireproof cable should not be in open environment for a long time, so as to avoid cable sheath color fading and mechanical properties been affected.

4、电缆敷设前,应对电缆型号、规格、额定电压是否正确,检验合格后方可允许敷设。Before laying the cable, model/type, specification and rated voltage of the cable should be check and confirmed.

5、安装敷设过程中,如因天气原因暂停敷设,电缆要放置于安全、干燥处,防止受到外力撞击,如电缆封帽已去掉,电缆端头应做好保护措施,防止湿气或雨水进入电缆内部。During the installation and laying, if suspended due to weather reasons, the cable should be placed in a safe and dry place to prevent external impact, if the cable cap has been removed, the cable end should take protective measures to prevent moisture or rain from entering the cable.

6、敷设时遇有中直接头、终端接头以及弯道处,应根据实际情况适当留有余量,以作为如后期电缆发生故障后备用。During laying, when comes to joints, couplings, ends or bended area, some cables should be reserved in case of maintenance in the future

7、电缆敷设过程中,为了防止弯曲过度而损坏,电缆的弯曲半径应符合国标 GB/T31840-2015 标准规定规定: In the process of cable laying, in order to prevent excessive bending and



damage, the bending radius of the cable should comply with the National Standard GB/T31840-2015

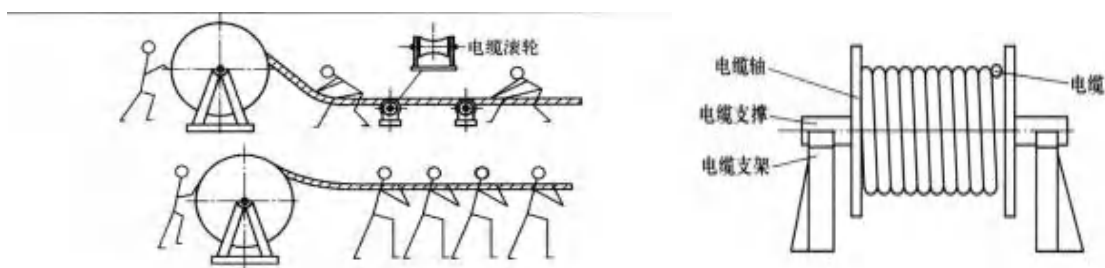
8、按国家标准要求, 电缆敷设环境温度应不低于  $0^{\circ}\text{C}$ , 寒冷季节敷设电缆时, 敷设现场的温度低于  $0^{\circ}\text{C}$  时, 应将电缆进行预先加热处理。敷设时间最好选择在环境温度较高时进行。According to the requirements of national standards, the ambient temperature of cable laying should not be lower than  $0^{\circ}\text{C}$ . When laying cables in cold season, when the temperature of the laying site is lower than  $0^{\circ}\text{C}$ , the cables should be pre-heated. It is recommend to laying in hot season

9、电缆施放时应按照电缆轴上箭头指示或图一所示电缆放线方向施放, 切不可反方向滚动, 以免因电缆松弛造成压线现象。The cable should be laid according to the direction of arrow shown on cable shaft or as shown in picture 1. Do not roll to the opposite direction to avoid compression caused by cable loosen.

10、电缆支架方式敷设时, 支架设地点应选好, 以敷设方便为准, 一般应在电缆起止点附近为宜, 应注意电缆轴的转动方向, 电缆引出端应在轴的上方, 见图二: When laying the cable support, the installation location should be selected, and the ease installation shall prevail. Generally, it should be near the starting and ending point of the cable. Attention should be paid to the rotation direction of the cable shaft, and the cable leading end should be above the shaft, as shown in picture 2:

图 一 Figure 1

图 二 Figure 2



11、电缆可采用图一所示人力拉引或图三机械牵引方法敷设 (符合国标 GB50618-2016)。The cable can be laid by manual pulling as shown in Figure 1 or mechanical pulling as shown in Figure 3 (in accordance with the national standard GB50618-2016).

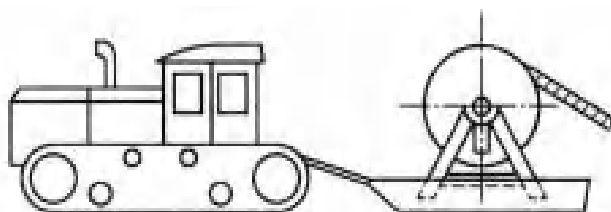


图 三 Figure 3