

# 耐高温(阻燃)电力电缆

## High Temperature Resistant (Flame Retardant) Power Cable

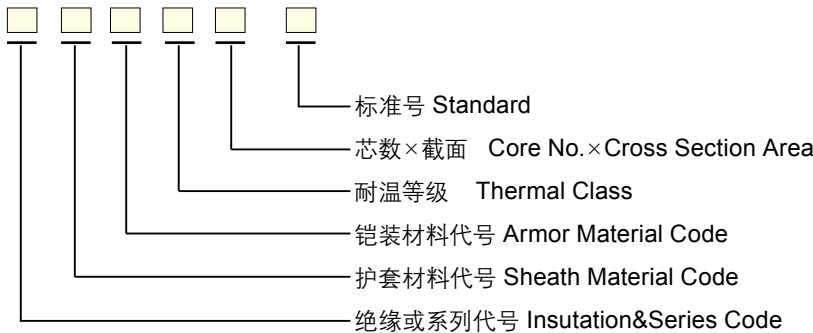
本产品适用于额定电压0.6/1kV及以下的高温范围和恶劣环境内, 作电气设备电能传输线。

一、生产执行标准 采用企业标准

### 二、使用特性

- 1、额定电压UO/U: 0.6/1kV。
- 2、电缆允许最高工作温度: 氟塑料绝缘及护套为200℃; 氟塑料绝缘耐热105聚氯乙烯护套为105℃; 氟塑料绝缘橡胶护套为180℃。
- 3、短路时(最长持续间不超过5S)电缆导体的最高温度不超过250℃。
- 4、电缆敷设温度应不低于-15℃。
- 5、电缆的弯曲半径如下: 单芯电缆: 其弯曲半径不小于电缆外径的20D。  
三芯电缆:其弯曲半径不小于电缆外径的15D。
- 6、氟塑料绝缘及护套型电力电缆具有优异的耐化学腐蚀性、耐高温及阻燃性。

### 型号说明



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

Executive standard: enterprise standard

### Performance in Usage

- 1: Rated voltage UO/U: 0.6/1kV
- 2: Max.working temperature allowed by cable is 200℃ for cable with fluoroplastic insulation and sheath, 105℃ for cable with fluoroplastic insulation, 105℃ heat resistant and PVC sheath, and 180℃ for cable with fluoroplastic insulation and silicon rubber sheath.
- 3: Max temperature of cable conductor is no more than 250℃ during short circuit (The longest lasting time is no more than 5s).
- 4: Temperature for installation is no less than -15℃.
- 5: Bending radius of cable as follows:  
It is no less than 20 times that of cable outer diameter for cable with single core  
It is no less than 15 times that of cable outer diameter for cable with 3 cores
- 6: Power cable with fluoroplastic insulation and sheath has good features of chemical corrosion resistance, high temperature resistance and flame retardance.

### Model Explantion

| 项目 Item                  | 代号 Code | 说明 Explanation                                   |
|--------------------------|---------|--------------------------------------------------|
| 绝缘或系列 Insutation&Series  | F       | 聚全氟乙丙烯绝缘 (F46) 电力电缆 F46 power cable              |
|                          | F       | 聚全氟乙丙烯护套 (F46) F46 sheathed                      |
| 护套 Sheath                | V       | 105℃ 聚氯乙烯护套 105℃ PVC sheathed                    |
| 铠装 Armoring              | 22      | 钢带铠装 steel tape armor                            |
| 耐温系数 Crade of heat proof | 200     | 最高工作温度 200 ℃ The Max. operating temperature 200℃ |
|                          | 105     | 最高工作温度 105 ℃ The Max. operating temperature 105℃ |

### 三、电缆的型号名称

### Type and Description

1、电缆的型号名称如表1

Type and Description in Table 1

Table 1

| 型 号<br>Type | 名 称<br>Description                                                                                                                                                                          |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FF          | 聚全氟乙丙烯绝缘护套耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation and sheath                                                                                      |
| FF22        | 聚全氟乙丙烯绝缘护套钢带铠装耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation and sheath, steel tape armoring                                                             |
| (ZR)-FG     | 聚全氟乙丙烯绝缘(阻燃)硅橡胶护套耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation ( flame retardant)and silicon rubber sheath                                              |
| (ZR)-FG22   | 聚全氟乙丙烯绝缘(阻燃)硅橡胶护套钢带铠装耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation ( flame retardant), silicon rubber sheath and steel tape armoring                    |
| (ZR)-FV     | 聚全氟乙丙烯绝缘(阻燃)耐热105聚氯乙烯护套耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation ( flame retardant), 105°C heat resistance and PVC sheath                           |
| (ZR)-FV22   | 聚全氟乙丙烯绝缘(阻燃)耐热105聚氯乙烯护套钢带铠装耐高温电力电缆<br>High temperature resistant power cable with F <sub>46</sub> insulation ( flame retardant), 105°C heat resistance , PVC sheath and steel tape armoring |

注：型号中“22”表示钢带铠装，如需钢丝铠装结构应将型号中的“22”改为“32”即可。

Note: 22 means steel tape armor “22” should be changed into “32” for cable with steel wire armor (if needed).

### 四、电缆规格

### Specification of Cable

电缆规格表示为芯数×导体标称截面mm<sup>2</sup>,其芯数及导体标称截面如表2

“core number \* nominal cross section” stands for cable specification. Please see the following table 2 for core number and nominal cross section

Table 2

| 型 号<br>Type             | 芯 数<br>Core number  | 标称截面 mm <sup>2</sup><br>Nominal cross section area |
|-------------------------|---------------------|----------------------------------------------------|
| FF, FF22                | 1                   | 1.5~185                                            |
| (ZR)-FV, FV22, FG, FG22 |                     | 1.5~300                                            |
| FF, FF22                | 2、3、4、5、<br>3+2、3+1 | 1.5~70                                             |
| (ZR)-FV, FV22, FG, FG22 |                     | 1.5~240                                            |

### 五、技术参数

### Technical Parameter

- 20℃导体直流电阻应符合GB/T3956标准规定。
- 电缆应经受3500V交流耐压试验5min绝缘不击穿。

- DC resistance of conductor at 20℃ shall meet the requirement of GB/T3956 standard.
- Cable shall bear AC voltage test of 3500V for 5min without puncture of insulation.

### 六、交货长度

### Delivery length

允许根据双方协议长度交货；长度计量误差不超过±0.5%。

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