

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及以下高温范围和恶劣环境下，作电气设备电能传输线。

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.

一、生产执行标准

TICW2-2009.

Executive standard

TICW2-2009.

二、使用特性

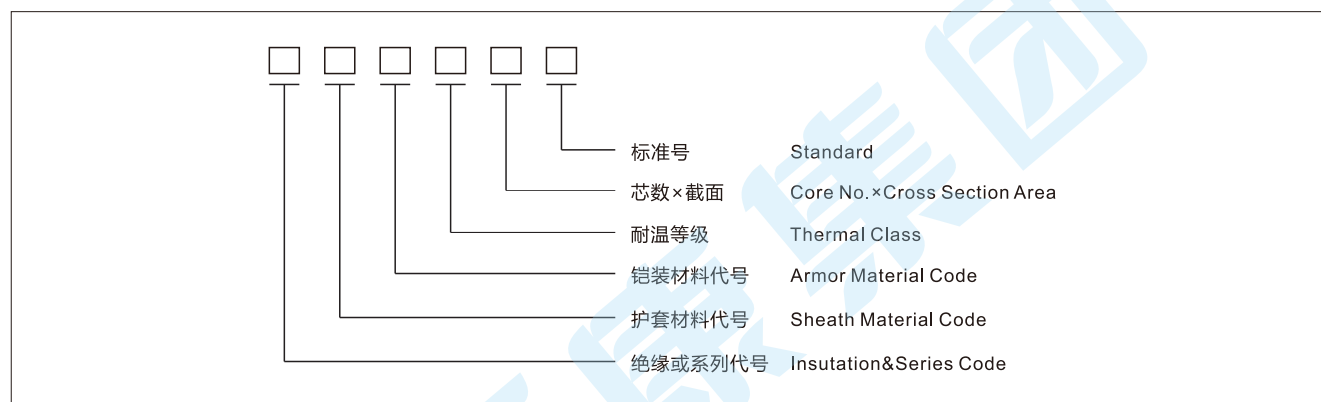
- 1、额定电压U₀/U: 0.6/1kV ;
- 2、电缆允许最高工作温度: 氟塑料绝缘为200°C ;
- 3、短路时(最长持续时间不超过5S)电缆导体的最高温度不超过250°C ;
- 4、电缆敷设温度应不低于-15°C ;
- 5、电缆的弯曲半径如下：单芯电缆，其弯曲半径不小于电缆外径的20D；三芯电缆，其弯曲半径不小于电缆外径的15D；
- 6、氟塑料绝缘及护套型电力电缆具有优异的耐化学腐蚀性、耐高温及阻燃性。

Operational performance

- 1.Rated voltage U₀/U: 0.6/1kV.
- 2.Max.working temperature allowed by cable is 200°C for cable with fluoroplastic insulation.
- 3.Max temperature of cable conductor is no more than 250°C during short circuit (The longest lasting time is no more than 5s).
- 4.Temperature for installation is no less than -15°C.
- 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.

三、型号说明

Model Explanation



项目 Item	代号 Code	说明 Explanation
绝缘 Insulation	F	聚全氟乙烯丙烯绝缘 (F46) 电力电缆 Polyfluoroethylene propylene insulation(F46)power cable
护套 Sheath	F	聚全氟乙烯丙烯绝缘 (F46) Polyfluoroethylene propylene insulation (F46)
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°C The Max.operating temperature 200°C

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

型号 Type	名称 Description
FF	聚全氟乙丙烯绝缘护套耐高温电力电缆 High temperature resistant power cable with F ₄₆ 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 High temperature resistant power cable with F ₄₆ 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 High temperature resistant power cable with F ₄₆ insulation (flame retardant) and silicon rubber sheath.
(ZR)-FG22(62)	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 High temperature resistant power cable with F ₄₆ insulation (flame retardant), silicon rubber sheath and steel tape armoring.

注：1、氟塑料和硅橡胶绝缘电缆不推荐采用铠装结构，如采用铠装结构，优先采用金属丝编织铠装，金属丝采用铜丝、镀锌钢丝等；
2、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；
3、型号中的“62”表示非磁性材料铠装。

Note: 1. Fluoroplastic and silicone rubber insulation cable don't recommend using armored structure. If armored structure is necessary, priority to metallic wire braiding and metallic wire use copper wire, galvanized steel wire etc.
2. "22" in cable type means steel tape armour, if steel wire armour is needed, just change "22" to "32".
3. "62" in cable type means non-magnetic material armour.

四、电缆规格

Specication of Cable

1、电缆规格表示为芯数×导体标称截面mm²，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.

型号 Type	芯数 Core number	标称截面 mm ² Nominal cross section area
FF、FF62、FG	1	1.5~185
FF、FF22	2、3、4、5、 3+2、3+1	1.5~70
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%.