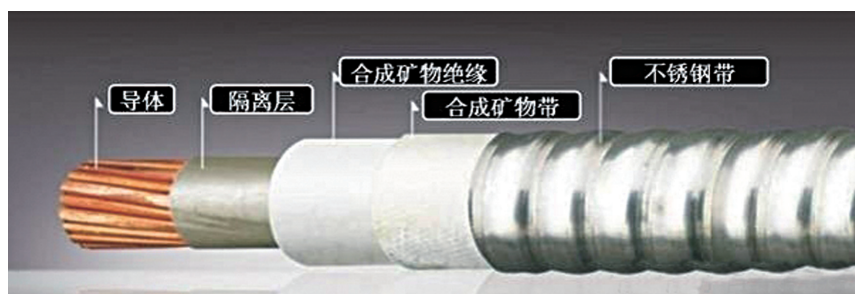


## 柔性防火电缆 Flexible fireproof cable



### ※产品简介 Brief product introduction

由于一般的电线电缆的绝缘使用的都是有机高分子材料，因此在火焰条件下极易碳化而失去绝缘作用。

柔性合成矿物绝缘防火电缆的绝缘采用合成矿物材料，在制造和施工使用时保持了电缆的柔软度。当火灾发生时，质变为坚硬的陶瓷状硬壳，以起到防火隔热的作用。并且其外护层采用制成螺纹状的非磁性不锈钢材料，保持了电缆原有的柔软弯曲度。增加了防火等级，在保证施工防刮损、使用防鼠咬的同时，更可以帮助使用中的电缆散热。

这些材料一般都具有 1400℃ 以上的较高熔点，因此即使在 1050℃ 高温条件下防火电缆也能正常发挥输电功能，且能通过 BS6387C/W/Z 试验，是一种真正意义上的防火电缆。

The general use of wire and cable insulation are organic polymer materials, therefore under fire conditions easily carbonation and lose the function of insulation.

Insulation used synthetic mineral materials of flexible synthetic mineral insulation fireproof cables, used in the manufacture and construction keep cable softness. When the fire occurs, qualitative hard ceramic crust, to play the role of fire insulation. And the outer protective layer non-magnetic stainless steel material whorled, flexible cable bending maintained the original. Increased fire rating, in ensuring the construction of anti scratch, using anti rat bite at the same time, can help the cable heat in use.

These materials generally have a high melting point above 1400 DEG C, so even at 1050 DEG C under the condition of high temperature fireproof cable can play a normal transmission function, and can pass the BS6387C/W/Z test, is a real sense of fireproof cable.

### ※RFTGB系列防火电缆特点 RFTGB series of fire retardant cable

#### Bs6387耐火性能 Bs6387 refractory performance

- RFTGB 系列防火电缆通过 BS6387 耐火标准三项考核：  
9500℃ 火焰下持续通电 180min 不击穿；
- 6500℃ 火焰下 15min 后承受 15min 的水喷淋不击穿；
- 9500℃ 火焰下承受 15min 的敲击振动而不击穿。

RFTGB series, fire retardant cable through BS6387 refractory three assessment criteria: , 9500℃ flame under continuous electricity 180 min not breakdown; Under 6500℃ flame, 15 min after 15 min under water spray not breakdown; , under the pounding of 15 min vibration under 9500℃ flame without breakdown.

#### 核心专利技术，柔性合成矿物绝缘材料

#### The core patented technology, flexible synthetic mineral insulating materials

· RFTGB 系列防火电缆采用以硅橡胶为基材加入氧化镁、氧化铝、瓷化粉等材料组合而成的核心技术，当遇火焰侵袭时。柔性合成矿物绝缘材料在燃烧反应的热作用下，温度达到、超过 650℃ 时会逐渐形成陶瓷状结晶，能保持其绝缘性、增强防火特性。从而使电缆在一定的燃烧时间内能够保持继续通电。

RFTGB series, fire retardant cable with silicone rubber as base material add magnesium oxide, alumina, porcelain powder materials such as combination of core technology, when in the flame. Flexible synthetic mineral insulating material under the effect of combustion reaction heat, the temperature reached more than 650℃, will gradually formed ceramic crystal, can maintain the insulation, fire protection features. To keep the cables in a certain burning time can continue to live.

#### 生产工艺先进，结构柔，安装方便，无接头更安全

#### advanced production technology, flexible structure, convenient installation, no joint safer

· RFTGB 系列防火电缆采用成熟的绞线紧压技术，制造长度与普通电缆相同，在保证导体光洁、圆整的基础上，提高电缆柔性；弯曲半径仅为 7D，安装像普通电缆一样，无需专门的技术设备；可以根据客户要求的长度、芯数进行供货，安装方便无接头，

杜绝了安全隐患，提高了可靠性！

RFTGB series, fire retardant cable USES the mature of the winding compression technology, and the length of the cable is the same, on the basis of the guarantee conductor is bright and clean, roundness, and improve the flexible cable; Bending radius is only 7 d, like ordinary cable installation, no specialized technical equipment; Can supply according to customer request length, some conclusions, easy installation, without connectors to eliminate the safety hidden trouble, can improve the reliability.

## 规格范围广 wide range of specifications

· RFTGB 系列防火电缆单芯截面最大可以做到 630mm<sup>2</sup>，多芯结构中的单芯最大截面积可做到 300mm<sup>2</sup>，可以满足各种规格建筑电线电缆需求。

## 耐压等级高 High Voltage level

· RFTGB 系列防火电缆耐压等级为 1000 伏，符合现代建筑电气设计，大大延长了使用寿命，而 BTTZ 电缆耐压能力最多达 750 伏，很难承受变频与电感因素形成的冲击电压，很难符合现代设计的安全要求。

## 防水性能好 Good waterproof performance

· RFTGB 系列防火电缆绝缘耐火层为柔性矿物，防水性能好，非磁性不锈钢连续成型工艺，制成螺纹状外护层，中间无接头，杜绝了接头处进水的现象，即使将 RFTGB 系列防火电缆完全浸在水中，也可以正常运行。

## 机械强度高、防鼠咬 High mechanical strength, and rat bite

· RFTGB 系列防火电缆外护层采用非磁性不锈钢材料制成螺纹状，能保证施工防刮损和使用防鼠咬。

## 抗过载 Anti overload

· RFTGB 系列防火电缆绝缘层遇高温能迅速形成坚硬的壳体保护，在承载超载、超负荷、短路电流致导体熔断（1083℃）过程中，不短路、不起火，即使导体短路形成的铜液也不会流出，杜绝了因过载而出现的电气故障，更不会出现火情。

## 载流量 Load flow

· 与其他相同截面电缆相比，RFTGB 系列防火电缆采用不锈钢螺纹护套，更有利于热量的散发，比其他类型的电缆传输更高的电流。若额定电流相同，则线损要比其他电缆小 7%~10%。

## 耐腐蚀 Corrosion resistance

· RFTGB 系列防火电缆主要采用无机化合物材料，外护层采用不锈钢材料制作，对碱溶液及大部分有机酸和无机酸具有良好的耐腐蚀能力，一般敷设时无需附加保护措施。

· 即使使用环境为化学品腐蚀或工业污染严重的地方，可选用带有聚烯烃护套产品，仍然可以保证使用安全。

## 使用寿命长，节能环保 Long service life, energy saving and environmental protection

· RFTGB 系列防火电缆由无机物组成，具有极好的热、电稳定性，耐老化性要比有机（橡塑之类）材质高多倍。橡塑电缆一般使用寿命 15 到 20 年而无机绝缘电缆使用寿命 ≥ 50 年，

· 可适用于核电等领域，无污染、绿色环保。

RFTGB series, fire can do 630 was largest, single core cable section multiconductor structure of single core area biggest can do 300 was, can satisfy the requirements of all kinds of wire and cable.

RFTGB series, fire retardant cable resistance voltage is 1000 v, in line with the modern building electrical design, greatly extend the service life, and ability to withstand voltage BTTZ cable up to 750 v, it is hard to withstand voltage variable frequency and the impact of the inductive factors forming, it is difficult to meet safety requirements of modern design.

RFTGB series fireproof cable insulating refractory layer is a flexible mineral, good waterproof performance, forming process of continuous non magnetic stainless steel, made of thread shaped outer protective layer, the middle without joints, prevent joint water phenomenon, even if the RFTGB series fireproof cable is completely immersed in the water, also can be in normal operation.

RFTGB series fireproof cable outer sheath non-magnetic stainless steel material thread shape, can guarantee the construction of anti scratch and when using anti rat bite.

RFTGB series fire retardant cable insulation layer when the temperature can quickly form shell protection hard, on the bearing overload, overload, short circuit current caused by conductor fuse (1083 DEG C) process, not short, not fire, even if the liquid copper conductor short circuit formation does not flow out, put an end to the electrical fault caused by overload, nor will there be a fire.

And the same with the other section cable compared, RFTGB series fireproof cable adopts stainless steel thread sheath, emit more conducive to heat, electric current is higher than other types of cable transmission. If the rated current of the same, then the loss than other cable 7%~10%.

RFTGB series fireproof cable mainly adopts the material of inorganic compounds, the outer protective layer is made of stainless steel material, has good corrosion resistance ability of the alkali solution and most organic and inorganic acid, without the need for additional protection measures generally laying.

And even if the use of the environment to chemical corrosion or industrial polluted place, can choose with polyolefin sheath products, can still guarantee the use safety.

RFTGB series fireproof cable by inorganic material, has excellent thermal, electrical stability, aging resistance than organic (rubber like material of high times). Rubber and plastic cable general service life of 15 to 20 years and mineral insulated cable service life more than 50 years,

And can be applied to nuclear power and other fields, no pollution, green environmental protection.

## ※应用领域——更广阔的应用空间

### Application Field---Broader Application Space

柔性合成矿物绝缘防火电缆的设计体现了矿物绝缘技术的优势，该电缆不仅可用于高密度电流系统等方面，还广泛应用于消防报警及紧急救生防火系统。

Design of flexible synthetic mineral insulation fireproof cable reflects mineral insulation technology advantages, the cable can be used not only in high density electric system etc., are widely used in fire alarm and emergency rescue of fire protection system.

### 高层建筑 High rise building

高层建筑内的紧急线路和消防报警提示线路是火灾中最重要的线路，必须保持完整以延长并确定救灾时间。

Emergency line in high-rise buildings and fire alarm cue circuit is the most important in the line of fire, must maintain the integrity and determine the time to extend relief.

### 军事科学 Military Science

其独特的小尺寸和柔韧性可满足军事设备里狭窄的电缆空间，并能在线路的密封性、防辐射、防爆方面提供独特的解决方案。

Its unique small size and flexibility of the cable can meet the narrow space of military equipment, and provide unique solutions in line sealing, anti radiation, anti explosion.

### 石油化工 Petroleum and chemical industry

该电缆可耐 1050℃ 的高温，在火灾环境下能确保所有能源、控制阀的控制线路和紧急设备线路的完整，以防止灾情扩大。

The cable can be high temperature of 1050 DEG C, can ensure that all energy, control valve control circuit and the circuit integrity of emergency equipment in the fire environment, in order to prevent the disaster to expand.

### 电力、冶金应用 Military Science

柔性合成矿物绝缘电缆由化合物组成，可避免持续高温环境下普通电缆的老化、脆化和过早损坏，确保系统的完整。

Composed by the compound flexible synthetic mineral insulated cable, can avoid the common cable continued under the environment of high temperature aging, embrittlement and premature failure, to ensure system integrity.

### 商场、剧院、宾馆 Shopping malls, theaters, hotels

在普通照明、应急照明、动力系统、安全系统、主干线等方面均可应用。

Can be used in general lighting, emergency lighting, power system, security system, the main trunk line etc..

### 机场应用 Airport application

可应用于消防泵输送电路、紧急设备、普通照明、应急照明、消防报警系统、动力系统、CCTV 系统等。

Can be used in fire pump delivery circuit, emergency equipment, general lighting, emergency lighting, fire alarm system, power system, CCTV system etc..

### 古建筑 Ancient Architectural Buildings;j

火灾保护对古建筑而言是首要考虑的，柔性合成矿物绝缘电缆可在火灾前、火灾中、火灾后保证紧急线路的供电并提供独特的解决方案。

Fire protection is the primary consideration in ancient architecture, in the fire before the fire, fire, later to ensure power supply emergency line and provide unique solutions of flexible synthetic mineral insulated cable.

### 医疗设施 Medical facilities

柔性合成矿物绝缘电缆为紧急供电线路场所提供了安全保障，为人员的安全疏散赢得了时间，并为救生、救火系统的运作提供电力。

To provide for the security of the emergency power supply line place flexible synthetic mineral insulated cable, won time for evacuation, and provide power for life-saving, fire-fighting system operation.

### 隧道 Tunnel

可应用于普通照明、应急照明、抽排烟系统、保安值班室。

Can be applied to general lighting, emergency lighting, smoke exhaust system, security duty room.

### 应急和必要的公共设施 The emergency and necessity of public facilities

可应用于火灾报警、排烟系统、报警系统、CCTV 系统、应急照明、喷淋控制系统、救生扶梯、火灾电话、应急电源等。

Can be applied to the fire alarm, smoke extraction system, alarm system, CCTV system, emergency lighting, sprinkler system, fire rescue escalator, phone, emergency power supply.



## 1KV 柔性合成矿物绝缘防火电缆

1KV Flexible Synthetic Mineral Insulated Fireproof Cables

### ※名称及适用范围 Names and scope applicable

额定电压 0.6/1KV (Um=1.2KV) 柔性矿物绝缘防火电缆 Rated voltage of 0.6/1KV (Um=1.2KV) flexible mineral insulated cable

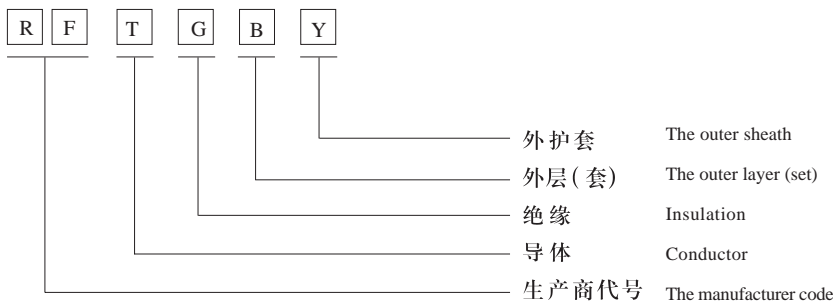
产品型号 Product model	名称 The name of the	适用范围 Scope of application
RFTGB	铜芯柔性合成矿物绝缘不锈钢护套防火电力电缆 Copper core flexible synthetic mineral insulation fireproof stainless steel sheath power cable	敷设在室内、管道、电缆沟、桥架中等能够承受机械外力作用的场所 Laying can bear external mechanical force in the interior, pipe, cable trench, bridge middle place
RFTGBY	铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套防火电力电缆 Copper core flexible synthetic mineral insulated stainless steel inner protecting layer of polyolefin sheath fire retardant power cable	敷设在室外、潮湿、能够承受机械外力作用的场所 Laying can bear external mechanical force in the outdoor, damp places,

### ※型号、规格范围 Types, specification scope

产品型号 Product model	电力线芯规格 (mm <sup>2</sup> ) Power line core specification	芯数 some	电压等级 Voltage grade
RFTGB RFTGBY	10-630	1	0.6/1KV
	10-120	3, 3+1	
	10-95	3+2, 4+1	

### ※型号说明及产品示例 Types, Instructions and product samples

生产商代号 The manufacturer code \_\_\_\_\_ RF  
 铜导体 Copper conductor \_\_\_\_\_ T  
 柔性合成矿物绝缘 Flexible synthetic mineral insulation \_\_\_\_\_ G  
 非磁性不锈钢螺纹护层 (套) Non magnetic stainless steel screw protective layer (set) \_\_\_\_\_ B  
 聚烯烃外护套 Polyolefin sheath \_\_\_\_\_ Y



例一: 铜芯柔性合成矿物绝缘不锈钢护套防火电力电缆, 额定电压 0.6/1KV, 1 芯 300mm<sup>2</sup>

表示为: RFTGB-0.6/1KV 1\*300

例二: 铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套防火电力电缆, 额定电压 0.6/1KV, 3 芯 120mm<sup>2</sup>+2 芯 700mm<sup>2</sup>

表示为: RFTGB-0.6/1KV 3\*120+2\*70

Example 1: copper core flexible synthetic mineral insulated stainless steel sheath fire power cable, rated voltage 0.6/1KV, 1 core 300mm<sup>2</sup>

That is: RFTGB-0.6/1KV 1\*300

Example two: copper core flexible synthetic mineral insulated stainless steel inner protecting layer of polyolefin sheath fire retardant power cable of rated voltage 0.6/1KV, 120mm<sup>2</sup>+2 core, 3 core 700mm<sup>2</sup>

That is: RFTGB-0.6/1KV 3\*120+2\*70

※结构参数及重量 Structure parameters and weight

额定电压 0.6/1KV 柔性合成矿物绝缘防火电缆 (1 芯)

Flexible synthetic mineral insulated fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻D.C Ω /km Conductor resistance at 20℃	载流量 A (40℃空气中敷设) Carrying capacity A (40 jæ) laying in the air
	RFTGB	RFTGBY	RFTGB	RFTGBY		
1 × 10	12.58	15.80	224	305	1.830	108
1 × 16	13.68	17.13	297	392	1.150	141
1 × 25	15.24	18.69	412	517	0.727	185
1 × 35	16.24	19.92	519	633	0.524	227
1 × 50	17.90	21.58	698	830	0.387	282
1 × 70	19.90	23.81	909	1064	0.268	345
1 × 95	23.50	27.64	1185	1382	0.193	417
1 × 120	24.90	29.27	1436	1657	0.153	783
1 × 150	27.16	31.76	1853	2092	0.124	555
1 × 185	29.42	34.02	2233	2505	0.099	639
1 × 240	32.28	37.11	2812	3124	0.075	759
1 × 300	35.14	40.20	3449	3804	0.060	1123
1 × 400	39.00	44.52	4481	4894	0.0470	1417
1 × 500	42.46	48.21	5491	5980	0.0366	1710
1 × 630	45.86	51.84	6872	7486	0.0283	2101

额定电压 0.6/1KV 柔性合成矿物绝缘防火电缆 (3 芯)

Flexible synthetic mineral insulated fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻D.C Ω /km Conductor resistance at 20℃	载流量 A (40℃空气中敷设) Carrying capacity A (40 jæ) laying in the air
	RFTGB	RFTGBY	RFTGB	RFTGBY		
3 × 10	25.58	29.95	702	905	1.830	75
3 × 16	27.96	32.56	1017	1253	1.150	99
3 × 25	31.33	36.16	1397	1676	0.727	131
3 × 35	33.49	38.55	1750	2066	0.524	166
3 × 50	37.07	42.36	2318	2684	0.387	206
3 × 70	41.39	46.91	3011	3456	0.268	252
3 × 95	49.38	54.59	3894	4494	0.193	305
3 × 120	51.40	57.84	4866	5527	0.153	353

额定电压 0.6/1KV 柔性合成矿物绝缘防火电缆 (3+1)

Flexible synthetic mineral insulated fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻 D.C Ω/km Conductor resistance at 20℃	载流量 A (40℃空气中敷设) Carrying capacity A (40 jæ) laying in the air
	RFTGB	RFTGBY	RFTGB	RFTGBY		
3*10+1*6	26.33	30.70	946	1168	1.830	75
3*16+1*10	29.92	34.52	1295	1558	1.150	99
3*25+1*16	33.42	38.48	1690	1992	0.727	131
3*35+1*16	35.24	40.30	2053	2390	0.524	166
3*50+1*25	39.19	44.71	2745	3157	0.387	206
3*70+1*35	43.43	49.18	3626	4123	0.268	252
3*95+1*50	50.63	57.07	4730	5378	0.193	305
3*120+1*70	54.39	61.06	5864	6605	0.153	353

额定电压 0.6/1KV 柔性合成矿物绝缘防火电缆 (4+1)

Flexible synthetic mineral insulated fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻 D.C Ω/km Conductor resistance at 20℃	载流量 A (40℃空气中敷设) Carrying capacity A (40 jæ) laying in the air
	RFTGB	RFTGBY	RFTGB	RFTGBY		
4*10+1*6	29.02	33.62	1172	1423	1.830	75
4*16+1*10	32.83	37.66	1619	1918	1.150	99
4*25+1*16	36.79	42.08	2138	2488	0.727	131
4*35+1*16	38.95	44.47	2636	3030	0.524	166
4*50+1*25	43.38	49.13	3567	4048	0.387	206
4*70+1*35	50.34	56.78	4696	5331	0.268	252
4*95+1*50	56.12	63.02	6153	6917	0.193	305

额定电压 0.6/1KV 柔性合成矿物绝缘防火电缆 (3+2)

Flexible synthetic mineral insulated fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻 D.C Ω/km Conductor resistance at 20℃	载流量 A (40℃空气中敷设) Carrying capacity A (40 jæ) laying in the air
	RFTGB	RFTGBY	RFTGB	RFTGBY		
3*10+2*6	27.59	32.19	1178	1418	1.830	75
3*16+2*10	32.24	37.07	1592	1882	1.150	99
3*25+2*16	35.95	41.24	2043	2369	0.727	131
3*35+2*16	37.57	42.86	2383	2742	0.524	166
3*50+2*25	41.95	47.70	3336	3833	0.387	206
3*70+2*35	48.37	54.58	4267	4859	0.268	252
3*95+2*50	53.82	60.48	5650	6358	0.193	305

## 1KV 柔性合成矿物绝缘综合(电力+控制)防火电缆

1KV Flexible Synthetic Mineral Insulated Comprehensive(electricity+control)Fireproof Cables

### ※名称及适用范围 Names and scope applicable

额定电压 0.6/1KV (Um=1.2KV) 柔性全成矿物绝缘综合(电力+控制)防火电缆

Rated voltage of 0.6/1KV (Um=1.2KV) flexible Quancheng mineral insulated (integrated power + control) fireproof cable

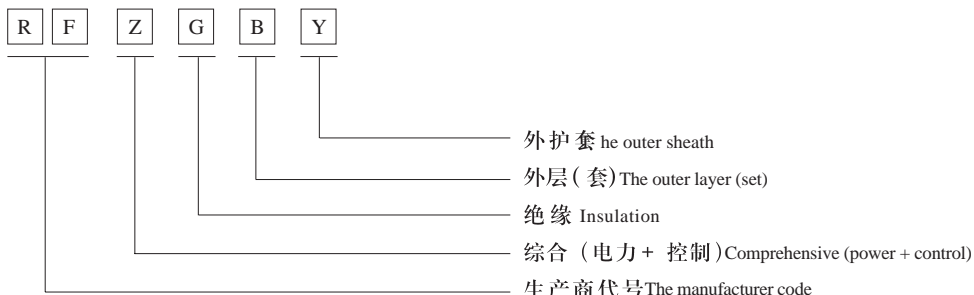
产品型号 The product model	名称 Name	适用范围 The scope of application
RFZGB	铜芯柔性合成矿物绝缘不锈钢护套综合(电力+控制)防火电缆 Copper core flexible synthetic mineral insulated stainless steel sheath (integrated power + control) fireproof cable	敷设在室内、管道、电缆沟、桥架中等能够承受机械外力作用的场所 Able to bear external mechanical forces laying indoors, pipe, cable trench, bridge medium Function of the place
RFZGBY	铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套综合(电力+控制)防火电缆 Copper core flexible synthetic mineral insulated stainless steel inner protecting layer outside of the polyolefin sheath (integrated power + control) fireproof cable	敷设在室外、潮湿、能够承受机械外力作用的场所 Laying can bear external mechanical force in the outdoor, damp places,

### ※型号、规格范围 Types, specification scope

产品型号 The product model	电力线芯规格(mm <sup>2</sup> ) Power line core specification	芯数 some	电压等级 Voltage grade	电力线芯规格(mm <sup>2</sup> ) Power line core specification	芯数 some	电压等级 Voltage grade
RFTGB RFTGBY	10-120	3	0.6/1KV	1.0-2.5	2-8	450/750V
	10-120	3+1		1.0-2.5	2-8	
	10-95	3+2		1.0-2.5	2-8	
	10-95	4+1		1.0-2.5	2-8	

### ※型号说明及产品示例 Types, Instructions and product samples

生产商代号 The manufacturer code \_\_\_\_\_ RF  
 综合(电力+控制) Comprehensive (power + control) \_\_\_\_\_ Z  
 柔性合成矿物绝缘 Flexible synthetic mineral insulation \_\_\_\_\_ G  
 非磁性不锈钢螺纹护层(套) Non magnetic stainless steel screw protective layer (set) \_\_\_\_\_ B  
 聚烯烃外护套 Polyolefin sheath \_\_\_\_\_ Y



例一: 铜芯柔性合成矿物绝缘不锈钢护套综合(电力+控制)防火电缆, 额定电压 0.6/1KV, 3 芯 120mm<sup>2</sup>+1 芯 700mm<sup>2</sup> 控制线芯 4 芯 1.5mm<sup>2</sup>

表示为: RFZGB-0.6/1KV 3\*120+1\*70+4\*1.5

例二: 铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套综合(电力+控制)防火电缆, 额定电压 0.6/1KV, 3 芯 120mm<sup>2</sup>+2 芯 700mm<sup>2</sup> 控制线芯 6 芯 1.5mm<sup>2</sup>

表示为: RFZGBY-0.6/1KV 3\*120+2\*70+6\*1.5

Example 1: flexible synthetic mineral insulated stainless steel sheath copper composite fire retardant cable (power + control), rated voltage 0.6/1 kv, 3 core was 120 + 1 core 120 was the line of control core 4 core was 1.5

Expressed as: RFZGB - 0.6/1 kv 3 + 1 \* 70 \* 120 \* 1.5 + 4

Example 2: copper within flexible synthetic mineral insulated stainless steel sheath outer sheath of polyolefin composite (power + control) fire cable, rated voltage 0.6/1 kv, 3 core was 120 + 2 core 120 was 6 core line core was 1.5

Expressed as: RFZGBY - 0.6/1 kv 120 + 3 \* 2 \* 70 + 6 \* 1.5

※结构参数及重量 Structure parameters and weight

额定电压 0.6/1KV 柔性合成矿物绝缘综合（电力+控制）防火电缆（3 芯）

Flexible synthetic mineral insulated comprehensive(electricity+control)fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻 D.C Ω/km Conductor resistance at 20℃	电力线芯试验 电压 kV/5min The test voltage kV powerline core / 5 min	控制线芯试验 电压 kV/5min Line of core test voltage kV / 5 min	控制线芯可选 The line of control core is optional
	RFTGB	RFTGBY	RFTGB	RFTGBY				
3*10+4*2.5	24.24	27.84	772	980	1.830	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5
3*16+4*2.5	26.50	30.30	1039	1281	1.150	3.5	2.5	
3*25+4*2.5	27.74	33.74	1303	1590	0.727	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
3*35+4*2.5	32.12	36.12	1740	2067	0.524	3.5	2.5	
3*50+4*2.5	35.58	39.78	2282	2666	0.387	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
3*70+4*2.5	39.68	44.28	2996	3462	0.268	3.5	2.5	
3*95+4*2.5	47.83	52.63	3934	4542	0.193	3.5	2.5	
3*120+4*2.5	50.86	56.26	4769	5451	0.153	3.5	2.5	

额定电压 0.6/1KV 柔性合成矿物绝缘综合（电力+控制）防火电缆（3+1 芯）

Flexible synthetic mineral insulated comprehensive(electricity+control)fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻 D.C Ω/km Conductor resistance at 20℃	电力线芯试验 电压 kV/5min The test voltage kV powerline core / 5 min	控制线芯试验 电压 kV/5min Line of core test voltage kV / 5 min	控制线芯可选 The line of control core is optional
	RFTGB	RFTGBY	RFTGB	RFTGBY				
3*10+1.6+4*2.5	26.41	30.01	904	1137	1.830	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5
3*16+1*10+4*2.5	28.31	32.11	1435	1698	1.150	3.5	2.5	
3*25+1*16+4*2.5	31.67	35.67	1830	2132	0.727	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
3*35+1*16+4*2.5	33.67	37.87	2193	2530	0.524	3.5	2.5	
3*50+1*25+4*2.5	37.48	41.88	2885	3297	0.387	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5 7*1.0 7*1.5 7*2.5 8*1.0 8*1.5 8*2.5
3*70+1*35+4*2.5	41.59	46.19	3766	4263	0.268	3.5	2.5	
3*95+1*50+4*2.5	49.95	54.95	4870	5518	0.193	3.5	2.5	
3*120+1*70+4*2.5	53.64	59.04	6004	6745	0.153	3.5	2.5	

注：上表电缆近似外径与重量是根据规格（电力线芯+控制线芯）计算，如控制线芯有变化，则电缆外径与重量有微量变化。

Remarks: The approximate external diameter and weight of cables in the above tables are calculated according to specifications (electrical wire core+control wire core) For example, the external diameter and weight of cables vary a little when the control wire core has changes.



额定电压0.6/1KV 柔性合成矿物绝缘综合（电力+控制）防火电缆（3+2芯）

Flexible synthetic mineral insulated comprehensive(electricity+control)fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻D.C Ω/km Conductor resistance at 20℃	电力线芯试验 电压kV/5min The test voltage kV powerline core / 5 min	控制线芯试验 电压kV/5min Line of core test voltage kV / 5 min	控制线芯可选 The line of control core is optional
	RFTGB	RFTGBY	RFTGB	RFTGBY				
3*10+2*6+4*2.5	28.25	32.15	957	1190	1.830	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5
3*16+2*10+4*2.5	30.45	34.45	1732	2022	1.150	3.5	2.5	
3*25+2*16+4*2.5	34.01	38.21	2183	2509	0.727	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
3*35+2*16+4*2.5	35.79	39.99	2523	2882	0.524	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
3*50+2*25+4*2.5	40.00	44.60	3476	3973	0.387	3.5	2.5	
3*70+2*35+4*2.5	47.67	52.47	4407	4999	0.268	3.5	2.5	7*1.0 7*1.5 7*2.5 8*1.0 8*1.5 8*2.5
3*95+2*50+4*2.5	52.96	58.36	5790	6498	0.193	3.5	2.5	

额定电压0.6/1KV 柔性合成矿物绝缘综合（电力+控制）防火电缆（4+1）

Flexible synthetic mineral insulated comprehensive(electricity+control)fireproof cables of 0.6/1kv rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻D.C Ω/km Conductor resistance at 20℃	电力线芯试验 电压kV/5min The test voltage kV powerline core / 5 min	控制线芯试验 电压kV/5min Line of core test voltage kV / 5 min	控制线芯可选 The line of control core is optional
	RFTGB	RFTGBY	RFTGB	RFTGBY				
4*10+1*6+4*2.5	28.56	32.65	993	1226	1.830	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5
4*16+1*10+4*2.5	31.01	35.01	1759	2058	1.150	3.5	2.5	
4*25+1*16+4*2.5	34.82	39.02	2278	2628	0.727	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5
4*35+1*16+4*2.5	37.20	41.60	2776	3170	0.524	3.5	2.5	2*1.0 2*1.5 2*2.5 3*1.0 3*1.5 3*2.5 4*1.0 4*1.5 5*1.0 5*1.5 5*2.5 6*1.0 6*1.5 6*2.5 7*1.0 7*1.5 7*2.5 8*1.0 8*1.5 8*2.5
4*50+1*25+4*2.5	41.46	46.06	3707	4188	0.387	3.5	2.5	
4*70+1*35+4*2.5	49.56	54.56	4836	5471	0.268	3.5	2.5	7*2.5 8*1.0 8*1.5 8*2.5
4*95+1*50+4*2.5	55.18	60.78	6293	7057	0.193	3.5	2.5	

注：上表电缆近似外径与重量是根据规格（电力线芯+控制线芯）计算，如控制线芯有变化，则电缆外径与重量有微量变化。

Remarks:The approximate external diameter and weight of cables in the above tables are calculated according to specifications (electrical wire core+control wire core) For example, the external diameter and weight of cables vary a little when the control wire core has changes.

## 柔性合成矿物绝缘防火控制电缆

Flexible Synthetic Mineral Insulated Fireproof Control Cables

### ※名称及适用范围 Names and scope applicable

额定电压 450/750V 柔性全成矿物绝缘防火控制电缆

Rated voltage 450/750 v flexible full into mineral insulating fire control cable

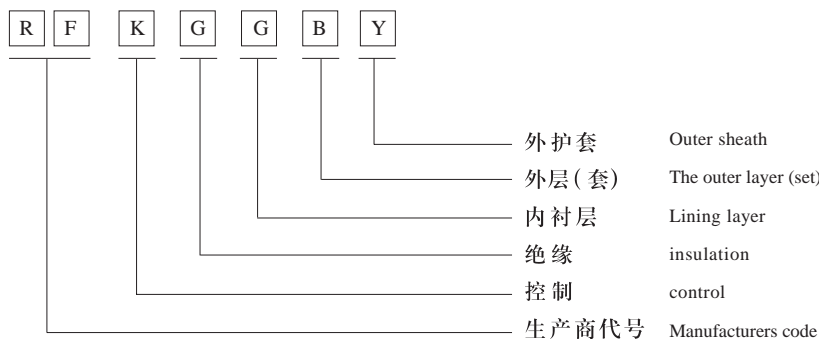
产品型号 Product model	名称 The name of the	适用范围 Scope of application
RFKGGGB	铜芯柔性合成矿物绝缘不锈钢护套防火控制电缆 Copper flexible synthetic mineral insulated stainless steel sheath fire control cable	敷设在室内、管道、电缆沟、桥架中等能够承受机械外力作用的场所 For laying indoors, pipelines, in cable trench, bridge medium able to bear external mechanical forces
RFKGGBY	铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套防火控制电缆 Copper flexible synthetic mineral insulated stainless steel sheath in polyolefin cable outer sheath fire control	敷设在室外、潮湿、能够承受机械外力作用的场所 Laying outside, moist, able to bear external mechanical forces

### ※型号、规格范围 Types, specification scope

产品型号 Product model	电力线芯规格 (mm <sup>2</sup> ) Power line core specification	芯数 some	电压等级 Voltage grade
RFKGGGB RFKGGBY	1.0-6.0	2-19	450/750V

### ※型号说明及产品示例 Types, Instructions and product samples

生产商代号 ————— RF Manufacturers code  
 控制电缆 ————— K Control cable  
 柔性合成矿物绝缘 ————— G Flexible synthetic mineral insulated  
 内衬层 ————— G Lining layer  
 非磁性不锈钢螺纹护层 (套) ————— B Non-magnetic stainless steel screw sheath (set)  
 聚烯烃外护套 ————— Y Polyolefin outer sheath



例一：铜芯柔性合成矿物绝缘不锈钢护套防火控制电缆，额定电压 450/750V，12 芯 1.5mm<sup>2</sup>

表示为：RFKGGGB-450/450V 12+1.5

例二：铜芯柔性合成矿物绝缘不锈钢内护层聚烯烃外护套防火控制电缆，额定电压 450/750V，19 芯 2.5mm<sup>2</sup>

表示为：RFKGGBY-450/750V 19\*2.5

Example 1: copper flexible synthetic mineral insulated stainless steel sheath fire control cable, rated voltage 450/750 v, 12 core was 1.5

Expressed as: RFKGGGB - 450/450 12 + 1.5 v

Example 2: copper flexible synthetic mineral insulated stainless steel sheath in polyolefin cable outer sheath fire control, rated voltage 450/750 v, 19 core was 2.5

Expressed as: RFKGGBY - 450/750 19 \* 2.5 v

※结构参数及重量 Structure parameters and weight

额定电压 450/750V 柔性合成矿物绝缘防火控制电缆  
Flexible synthetic mineral insulated fireproof control cables of 450/750V rated voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm		电缆近似总量 (kg/km) Cable approx.weight		20℃时导体直流电阻D.C Ω /km Conductor resistance at 20℃	电力线芯试验 电压 kV/5min The test voltage kV powerline core / 5 min
	RFTGB	RFTGBY	RFTGB	RFTGBY		
5*1.0	12.8	15.6	210	267	18.1	2.5
5*1.5	13.7	16.7	255	320	12.1	2.5
5*2.5	14.8	17.8	330	400	7.41	2.5
5*4.0	16.0	19.2	435	516	4.61	2.5
5*6.0	17.59	20.79	574	662	3.08	2.5
7*1.0	13.75	16.75	250	316	18.1	2.5
7*1.5	14.50	17.50	301	370	12.1	2.5
7*2.5	15.70	18.70	397	471	7.41	2.5
7*4.0	17.31	20.51	537	624	4.61	2.5
7*6.0	18.84	22.24	711	811	3.08	2.5
8*1.0	14.89	17.89	303	373	18.1	2.5
8*1.5	15.75	18.95	365	445	12.1	2.5
8*2.5	17.33	20.53	488	575	7.41	2.5
8*4.0	18.95	22.35	653	753	4.61	2.5
8*6.0	22.75	26.35	865	991	3.08	2.5
10*1.0	16.48	19.68	381	464	18.1	2.5
10*1.5	17.48	20.68	462	549	12.1	2.5
10*2.5	19.08	22.48	613	714	7.41	2.5
10*4.0	23.00	26.60	825	952	4.61	2.5
10*6.0	25.24	29.04	1102	1250	3.08	2.5
12*1.0	16.88	20.08	407	492	18.1	2.5
12*1.5	17.92	21.12	497	586	12.1	2.5
12*2.5	21.63	25.23	668	788	7.41	2.5
12*4.0	23.58	27.18	905	1035	4.61	2.5
12*6.0	25.91	29.71	1218	1369	3.08	2.5
14*1.0	17.52	20.72	447	535	18.1	2.5
14*1.5	18.62	22.02	549	647	12.1	2.5
14*2.5	22.42	26.02	741	865	7.41	2.5
14*4	24.70	28.50	1018	1163	4.61	2.5
14*6	26.95	30.75	1367	1524	3.08	2.5
16*1.0	18.25	21.45	494	585	18.1	2.5
16*1.5	21.47	25.07	610	730	12.1	2.5
16*2.5	23.35	26.95	827	956	7.41	2.5
16*4.0	25.76	29.56	1140	1290	4.61	2.5
16*6.0	28.35	32.35	1542	1716	3.08	2.5
19*1.0	19.01	22.41	547	648	18.1	2.5
19*1.5	22.30	25.90	680	804	12.1	2.5
19*2.5	24.50	28.30	935	1078	7.41	2.5
19*4.0	26.85	30.65	1287	1443	4.61	2.5
19*6.0	29.60	33.60	1752	1932	3.08	2.5

## 6-35KV 隔离型防火控制电缆

### 6-35KV Isolation Fireproof Cables

#### ※名称及适用范围 Names and scope applicable

额定电压 6KV(Um=7.5KV)到 35KV(Um=40.5KV)交联聚乙烯绝缘隔离型防火电缆

6 KV rated voltage (Um = 7.5 KV) to 35 KV (Um = 40.5 KV) crosslinked polyethylene insulation isolation type fireproof cables

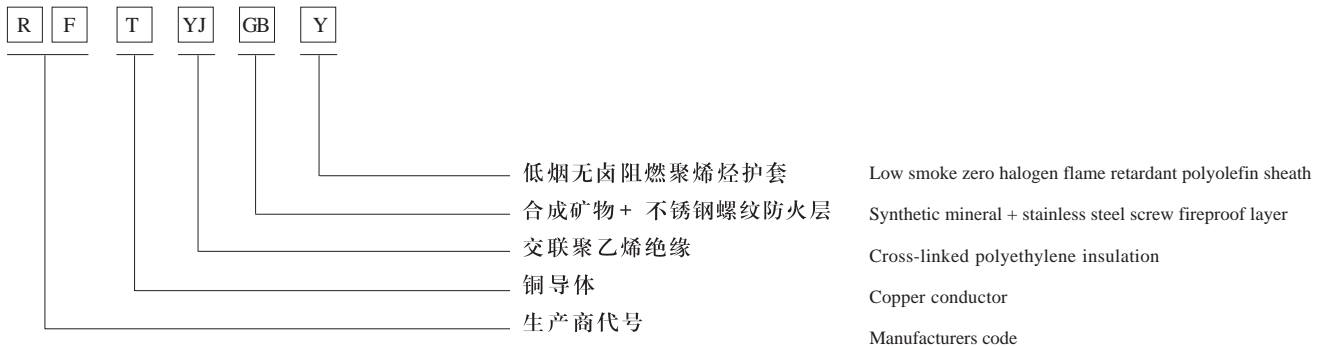
产品型号 Product model	名称 The name of the	适用范围 Scope of application
RFTYJGBY	铜芯交联聚乙烯绝缘隔离型防火电缆 Copper core with cross-linked polyethylene insulation isolation type fireproof cables	敷设在室内外、电缆沟中等，并能够承受一定的机械外力 In indoor and outdoor, in cable trench laying medium, and be able to bear external mechanical forces

#### ※型号、规格范围 Types, specification scope

产品型号 Product model	芯数 some	额定电压 The rated voltage			
		6/6-6/10	8.7/10-8.7/15	12/20	26/35
		导体标称截面 (mm <sup>2</sup> ) Nom.cross sectional areas mm <sup>2</sup>			
RFTYJGBY	1	25~630	25~630	35~630	50~630
	3	25~95	25~95		

#### ※型号说明及产品示例 Types, Instructions and product samples

生产商代号 \_\_\_\_\_ RF Manufacturers code  
 铜导体 \_\_\_\_\_ T Copper conductor  
 交联聚乙烯绝缘 \_\_\_\_\_ YJ Cross-linked polyethylene insulation  
 合成矿物 + 不锈钢螺纹防火层 \_\_\_\_\_ GB Synthetic mineral + stainless steel screw fireproof layer  
 聚烯烃外套 \_\_\_\_\_ Y Polyolefin outer sheath



例一：铜芯交联聚乙烯绝缘隔离型防火电缆，额定电压 8.7/15KV，3 芯 95mm<sup>2</sup>

表示为：RFTYJGBY-8.7/15KV 3\*95

例二：铜芯交联聚乙烯绝缘隔离型防火电缆，额定电压 26/35KV，1 芯 300mm<sup>2</sup>

表示为：RFTYJGBY-26/35KV 1\*300

Example 1: copper with cross-linked polyethylene insulation isolation type fireproof cables, rated voltage 8.7/15 kv, 3 core was 95

Expressed as: RFTYJGBY - 8.7/15 kv 3 \* 95

Example 2: copper with cross-linked polyethylene insulation isolation type fireproof cables, rated voltage 26/35 kv, 1 core was 300

Expressed as: RFTYJGBY - 26/35 kv 1 \* 300

※结构参数及重量 Structure parameters and weight

交联聚乙烯绝缘隔离型中压防火电缆（1 芯）

Structure chart of cross-linked polyethylene Insulated Isolation fireproof cables of medium voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm					电缆近似总量 (kg/km) Cable approx.weight					20℃时导体直流电阻D.C Ω/km Conductor resistance at 20℃	载流量 A (40℃空气中 敷设) Carrying capacity A (40℃) laying in the air
	6/6	6/10	8.7/10	8.7/15	26/35	6/6	6/10	8.7/10	8.7/15	26/35		
1*25	32.6		34.8		-	1389		1550		-	0.727	179
1*35	33.6		35.8		-	1538		1701		-	0.524	215
1*50	35.2		37.6		50.6	1779		1969		3215	0.387	255
1*70	37.4		39.6		52.8	2096		2276		3596	0.268	325
1*95	39.0		41.4		54.4	2416		2621		3959	0.193	395
1*120	40.6		42.8		56.0	2722		2936		4333	0.153	450
1*150	42.2		44.6		57.6	3108		3328		4741	0.124	515
1*185	44.0		46.6		59.4	3539		3786		5225	0.099	590
1*240	46.2		48.8		61.8	4164		4421		5941	0.075	695
1*300	48.8		51.2		64.0	4877		5127		6676	0.060	820
1*400	52.2		54.6		67.4	5992		6255		7885	0.047	956
1*500	55.2		57.6		70.4	7084		7361		8963	0.037	1113
1*630	59.0		61.2		74.2	8513		8777		10600	0.028	1292

交联聚乙烯绝缘隔离型中压防火电缆（3 芯）

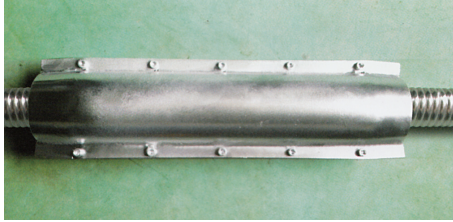
Structure chart of cross-linked polyethylene Insulated Isolation fireproof cables of medium voltage

标称截面 Nom.cross sectional areas mm <sup>2</sup>	电缆近似外径 Approx.diameter of cable mm				电缆近似总量 (kg/km) Cable approx.weight				20℃时导体直流电阻D.C Ω/km Conductor resistance at 20℃	载流量 A (40℃空气中 敷设) Carrying capacity A (40℃) laying in the air
	6/6	6/10	8.7/10	8.7/15	6/6	6/10	8.7/10	8.7/15		
3*25	53.0		58.0		3485		3708		0.727	140
3*35	55.2		60.3		3934		4505		0.524	165
3*50	57.6		62.7		4544		5136		0.387	195
3*70	62.3		67.2		5513		6109		0.268	245
3*95	65.9		71.1		6519		7179		0.193	295

## 附件 The attachment

### ※防火电缆中间接头

Fire retardant cable joint in the middle



### 产品简介 Brief product introduction

防火电缆中间接头导体采用中间连接管连接，采用柔性合成矿物材料绝缘，使每相隔开，防止碰相，并阻止了水向中间连接管内导体渗透。

最后将防火电缆外罩用矿物绝缘块填满，将固定好的接头压入防火电缆外罩内用螺丝将其固定，使其起到防火、防水的效果。

Fire retardant cable intermediate joint conductor connected by the intermediate connecting pipe, use knead synthetic mineral insulating material, so that each of the separate, prevent touch phase, and prevent the water to permeate intermediate connecting pipe conductor.

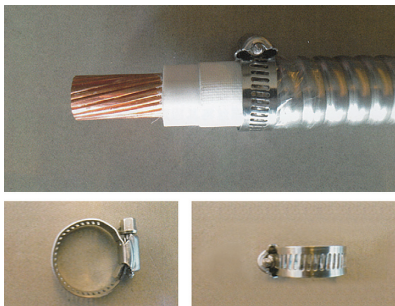
Finally will fire cable cover with mineral insulated filled with press fixed good joint into fire cable cover while use screws to fix it, make its have the fire prevention, waterproof effect.

### 主要技术参数 Main technical parameters

序号	外罩系列	电缆近似外径 (mm)				
		单芯	二芯	三芯	四芯	五芯
1	RFTZG-200/25-20	≤ 25	/	/	/	/
2	RFTZG-200/45-30	≤ 45	/	/	/	/
3	RFTZG-250/35-30	/	≤ 35	/	/	/
4	RFTZG-250/50-40	/	≤ 50	/	/	/
5	RFTZG-320/50-40	/	/	/	/	/
6	RFTZG-320/50-40	/	/	≤ 35	/	/
7	RFTZG-400/35-30	/	/	≤ 50	/	/
8	RFTZG-400/50-40	/	/	/	≤ 35	/
9	RFTZG-400/60-50	/	/	/	≤ 50	/
10	RFTZG-430/35-30	/	/	/	≤ 60	≤ 35
11	RFTZG-430/50-40	/	/	/	/	≤ 50
12	RFTZG-430/60-50	/	/	/	/	≤ 60

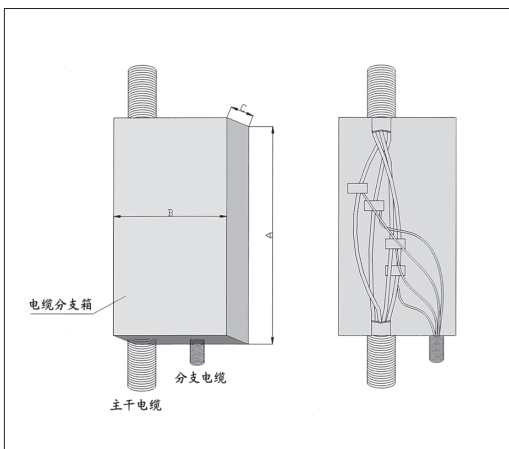
注：外罩材料采用 304 不锈钢钢

### ※防火电缆金属护套终端



序号	型号	适用电缆外径范围 (mm)	序号	型号	适用电缆外径范围 (mm)
1	RFTZA-12	φ 12 ± 3	10	RFTZA-52	φ 52 ± 13
2	RFTZA-15	φ 15 ± 4	11	RFTZA-53	φ 53 ± 14
3	RFTZA-18	φ 18 ± 5	12	RFTZA-64	φ 53 ± 12
4	RFTZA-20	φ 20 ± 6	13	RFTZA-72	φ 64 ± 12
5	RFTZA-25	φ 25 ± 7	14	RFTZA-77	φ 72 ± 12
6	RFTZA-30	φ 30 ± 8	15	RFTZA-83	φ 74 ± 12
7	RFTZA-35	φ 35 ± 9	16	RFTZA-90	φ 83 ± 12
8	RFTZA-40	φ 40 ± 11	17	RFTZA-95	φ 95 ± 13
9	RFTZA-45	φ 45 ± 12			

### ※防火电缆分接箱



### 产品简介 Brief product introduction

1. 树干式配电能节约大量投资
2. 树干式配电宜采用单芯或多芯电缆便于分支
3. 本公司电缆分支时，主干电缆不会断开
4. 使用分支箱时，主干电缆不能敷设在槽或桥架中，应直敷在支架上，因为线槽，桥架空间有限，很难装入分支箱，直接敷设在支架上，时符合规定的。

1. The trunk type distribution can save a lot of investment
2. The trunk type distribution appropriate USES single-core or multi-core cable branch
3. The company cable branch, main cable will not disconnect
4. When using branch box, trunk cable online slot or bridge can't, should apply straight on the stand, because of the trough, bridge space is limited, it is difficult to load branch box, laying on the scaffolds directly, in conformity with the provisions.

### 技术参数 Technical parameters

分接箱型号 Tap box type	A (mm)	B (mm)	C (mm)	适用于电缆外径 Applicable to the cable diameter
RFFZX-1	600	400	280	≤ 90
RFFZX-2	510	350	260	≤ 50
RFFZX-3	480	310	240	≤ 30