

丁腈聚氯乙烯复合物软电缆

Butyronitrile PVC Compound Flexible Cable

本产品适用于交流额定电压450/750V及以下控制、监控回路、各种移动电器、无线电设备和照明灯座接线用以及保护线路等要求在低温下运行的场合。

This product is suitable for the AC rated voltage up to and including 450/750V, the requirements for operation at low temperature, with using in Control/monitoring circuits, various mobile appliances, radio equipment and lighting socket connection and protection lines, etc.

一、生产执行标准

企业标准。

Executive standard

Enterprise standard.

二、使用条件

- 1、电导体长期工作温度：硅橡胶绝缘不超过180℃；聚氯乙烯绝缘不超过70℃；
- 2、电线最低环境温度为-40℃；
- 3、允许弯曲半径一般应不小于电缆外径的8倍；软结构电缆应不小于电缆外径的6倍。

Operational performance

1. Long-term working temperature of wire conductor is no more than 180℃ for cable with Silicon Rubber Insulation, 70℃ for that with PVC insulation.
2. Min. environment temperature of wire is -40℃.
3. Bending radius allowed by wire is no less than 8 times that of cable O.D OR 6 times for cable with soft structure.

三、电缆型号

Type and description

型号 Type	名称 Description	备注 Note
YVFR	铜芯丁腈聚氯乙烯绝缘及护套软电力电缆 Soft power cable with Cu core, butadiene PVC insulation and sheath	1、电缆如需镀锡铜线编织屏蔽结构，应将原型号中的“P”改为“P1”。 2、如导体需采用镀锡铜线，应在订货中说明，型号中不另作规定。 If tin-plated copper wire braided shielding is needed, the letter “P” in the original type of cable shall be changed into the letter “P1”. If tinned copper wire conductor is used, the relevant description shall be made in the order, but it is not necessary to give other description in cable type.
YVFB	铜芯丁腈聚氯乙烯绝缘及护套扁平型软电力电缆 Flat type soft power cable with Cu core, butadiene PVC insulation and sheath	
YGVFB	铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软电力电缆 Flat type soft power cable with Cu core, silicon rubber insulation and butadiene PVC sheath	
KVFR	铜芯丁腈聚氯乙烯绝缘及护套软控制电缆 Soft control cable with Cu core, butadiene PVC insulation and sheath	
KVFRP	铜芯丁腈聚氯乙烯绝缘及护套铜丝编织屏蔽软控制电缆 Soft control cable with Cu core, butadiene PVC insulation and sheath, copper wire braided shielding	
KVFB	铜芯丁腈聚氯乙烯绝缘及护套扁平型软控制电缆 Flat type soft control cable with Cu core, butadiene PVC insulation and sheath	
KGVFB	铜芯硅橡胶绝缘丁腈聚氯乙烯护套扁平型软控制电缆 Flat type soft control cable with Cu core, silicon rubber insulation and butadiene PVC sheath	

四、规格范围

Type and Specification scope

型号 Type	规格范围 Specification scope
YVFR YVFB YGVFB	1 core: 1.5~300mm ² 2、3、4、5、3+1core: 1.5~185mm ²
KVFR KVFRP	2~61cores: 0.5~2.5mm ²
KVFB KGVFB	2~10cores: 1.5~6mm ²

五、主要技术指标

1、20°C时导体最大直流电阻值应满足表2规定：

Table 2

标称截面(mm ²) Nominal cross section area	20°C时导体直流电阻 $\leq\Omega/\text{km}$ Conductor DC resistance at 20°C	
	不镀锡 Not tinned	镀锡 Tinned
0.5	39.0	40.1
0.75	26.0	26.7
1.0	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21
4	4.95	5.09
6	3.30	3.39
10	1.91	1.95
16	1.21	1.24
25	0.78	0.795
35	0.554	0.565
50	0.386	0.393
70	0.272	0.277
95	0.206	0.210
120	0.161	0.164
150	0.129	0.132
185	0.106	0.108

2、成品控制电缆应经受工频交流试验电压3000V、5min电压试验，绝缘无击穿；

3、成品电力电缆应经受工频交流试验电压3500V、5min电压试验，绝缘无穿。

Main Technical Parameter

Max. DC resistance of conductor at 20°C shall meet the requirement of the following table

2.The finished product control cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3000v, 5min), the insulation is not breakdown.

3.The finished product power cable should be subjected to the Power Frequency AC Withstand Voltage Test (with 3500v, 5m in), the insulation is not breakdown

六、交货长度

允许根据双方协议长度交货；
长度计量误差不超过 $\pm 0.5\%$ 。

Delivery length

Delivery length of cable depends on both agreements with length error allowance of $\pm 0.5\%$.