

丁腈聚氯乙烯复合物软电缆

Butadiene PVC Compound Soft 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。

一、生产执行标准
企业标准及JB1170-75标准。

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。

三、电缆型号见表1

型号 Type	电缆名称 Cable 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、规格范围如下表

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

It is used for supervising and controlling return circuit of A.C. rated voltage of 450/750V or lower, power connection of various mobile electrical equipments, radio devices, and lighting & protection line with operation under low temperature.

Executive standard:
enterprise standard and JB1170-75 standard

Working Condition

- 1: Long-term working temperature of wire conductor is no more than 180℃ for cable with silicon 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.

Type and description in table 1

Type and Specification scope

五、主要技术指标

1、20℃时导体最大直流电阻值应满足表2规定：

Main Technical Parameter

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

Table 2

标称截面 (mm ²) Nominal cross section area	导体结构 根数/直径(mm) Conductor structure Pieces/diameter	20℃时导体直流电阻 $\leq \Omega/\text{km}$ Conductor DC resistance at 20℃	
		不镀锡 Not tinned	镀锡 tinned
0.5	16/0.20	39.0	40.1
0.75	24/0.20	26.0	26.7
1.0	32/0.20	19.5	20.0
1.5	30/0.25	13.3	13.7
2.5	49/0.26	7.98	8.21
4	56/0.30	4.95	5.09
6	84/0.30	3.30	3.39
10	84/0.40	1.91	1.95
16	110/0.43	1.21	1.24
25	170/0.43	0.78	0.795
35	240/0.43	0.554	0.565
50	342/0.43	0.386	0.393
70	482/0.43	0.272	0.277
95	654/0.43	0.206	0.210
120	827/0.43	0.161	0.164
150	1033/0.43	0.129	0.132
185	1274/0.43	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，绝缘无击穿。

2: Finished control cable shall bear A.C. test voltage of 3000V under power frequency for 5min without puncture of insulation.

3: Finished power cable shall bear A.C. test voltage of 3500V under power frequency for without puncture of insulation.

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 $\pm 0.5\%$