

# 硅橡胶(阻燃)控制电缆

## Silicon Rubber(flame retardant)Control Cable

本产品适用于钢铁、冶炼、电厂、焦化厂、航空、冶金机械、石油、化工等高温工业中，额定电压450/750V及以下的控制及监控回路中。它具有优良的耐高温、阻燃、耐辐射、耐老化、耐臭氧、防水等特性，同时具有很好的耐寒性、耐候性。

### 一、生产执行标准

TICW5-2009。

### 二、使用条件

1. 交流额定电压U0/U : 450/750V ;
2. 电缆的敷设温度应不低于-20°C ;
3. 电缆允许工作最高温度范围 : -60°C ~ +180°C , 推荐无铠装或屏蔽结构弯曲半径不小于电缆外径的6倍，有铠装或屏蔽结构的电缆其弯曲半径不小于电缆外径的12倍 ;
4. 有优良的耐臭氧老化、热老化、紫外光老化和大气老化性能。

### 三、型号名称及主要使用范围如表1

Table 1

型号 Type	名称 Description	主要使用范围 Application occasion
KGG KGGR	铜芯硅橡胶绝缘硅橡胶护套控制(软)电缆 Control(soft) cable with Cu core, silicon rubber insulation and sheath	敷设在室内、电缆沟、管道固定场合及要求柔软等移动场合。 For laying indoors, in cable trench, in conduit, with demand on mobility and softness
KGGP KGGRP	铜芯硅橡胶绝缘硅橡胶护套编织屏蔽控制(软)电缆 Control(soft) cable with Cu core, silicon rubber insulation and sheath, braided shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合及要求柔软、屏蔽等移动场合。 To be fixedly laid indoor, cable trench or pipe, in the environment with demand on softness and shielding
KGGP2	铜芯硅橡胶绝缘硅橡胶护套铜带屏蔽控制电缆 Control cable with Cu core, silicon rubber insulation and sheath, copper tape shielding	敷设在室内、电缆沟、管道等要求屏蔽的固定场合。 To be fixedly laid indoor, cable trench or pipe with demand on shielding
KGG22	铜芯硅橡胶绝缘硅橡胶护套钢带铠装控制电缆 Control cable with Cu core, silicon rubber insulation&sheath and steel tape armored	敷设在电缆沟、直埋等要求抗一定机械外压力的固定场合。 To be laid in cable trench or direct in ground etc, able to bear external mechanical forces, and for fixed installation.

注：也可提供阻燃型硅橡胶控制电缆，订货时可在上表中的型号前加“ZA、ZB、ZC、ZD”。

It is widely used for supervising and controlling return circuit of rated voltage up to and including 450/750V for production under high temperature in the field of steel & iron, refinery, power plant, coking plant, aviation, metallurgy, machinery, petrochemical industry etc. It has good feature of high temperature resistance, flame retardance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance and weather resistance.

### Executive standard

TICW5-2009.

### Operational performance

- 1.A.C rated voltage UO/U: 450/750V.
- 2.Temperature for installing is not lower than -20°C.
- 3.Working temperature allowed by cable is -60°C ~ +180°C. Recommended bending radius:It shall be not less than 12 times that of cable O.D for armored or shield structure cable , and 6 times that of cable O.D for cable without armored and shield structure .
- 4.It has good features of ozone aging resistance, thermal aging resistance, ultraviolet resistance and atmosphere aging resistance.

Type, description and main application occasion listed in the following table 1.

Note: we can also offer flame resistance control cable with silicon rubber insulation&sheath, prefix "ZA,ZB,ZC,ZD" should be added to type in table.

#### 四、电缆规格如下表所示

Cable specification as follows

型号 Type	额定电压 V Rated voltage	导体标称截面 mm <sup>2</sup> Nominal cross section of conductor area							
		0.5	0.75	1.0	1.5	2.5	4	6	10
芯数 Core number									
KGG、KGGP KGGR、KGGRP	450/750	2~61				2~48			
KGGP2		4~61				2~14			
KGG22		7~61			4~61				

注：推荐的芯数系列为2、3、4、5、7、8、10、12、14、16、19、24、27、30、37、44、48、52、61芯，如用户有特殊需要，也可生产61芯以下任意芯数的电缆。

Note: Recommended series of core number 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52,61. We also produce cable with any number of cores below 61 cores.

#### 五、技术参数

- 1、成品电缆绝缘线芯的绝缘电阻：换算到电缆长度为1km、温度为20℃时应不小于50MΩ；
- 2、成品电缆应经受工频交流3000V/5min电压试验。绝缘不击穿。

#### Technical Parameter

- 1.Insulated resistance of finished cable insulated conductor will be no less than 50MΩ under the condition that cable length is 1km and temperature is 20℃.
- 2.Finished cable shall bear AC voltage test of 3000V under power frequency for 5 minutes without puncture of insulation.

#### 六、交货要求

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

Delivery length of cable depends on the both agreement with length error allowance of ±0.5%.