硅橡胶绝缘（阻燃）控制电缆

(Flame retardant) Control cable with silicon insulation

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。

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 □eld of steel & iron, re□nery, power plant, coking plant, aviation, metallurgy, machinery, petrochemical industry etc. It has good feature of high temperature resistance, □ame retardance, radiation resistance, aging resistance, ozone resistance, water proof, freezing resistance and weather resistance.

一、生产执行标准

TICW5-2009，JB/T13108-2017及企业标准。

Executive standard

TICW5-2009,JB/T13108 and Enterprise standard.

二、使用特点

1、交流额定电压U_0/U：450/750V；

2、电缆的敷设温度应不低于-20℃；

3、电缆允许工作最高温度范围：-60℃~+180℃，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。

Operational performance

1.A.C rated voltage U_0/U: 450/750V.

2.Temperature for installing is not lower than -20℃.

3.Working temperature allowed by cable is -60℃~+180℃. 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.

三、型号名称及主要使用范围

Type, description and main application occasion

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
$KGGP_2$	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 fixed laid indoor, cable trench or pipe with demand on shielding
KGG2G	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.
KGGP2-2G	铜芯硅橡胶绝缘铜带屏蔽钢带铠装硅橡胶护套控制电缆 Control cable with Cu core，silicon rubber insulation, Copper tape shielding,steel tape armored,silicon sheath	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.
KGG3G	铜芯硅橡胶绝缘细钢丝铠装硅橡胶护套控制电缆 Control cable with Cu core，silicon rubber insulation,steel wire armored,silicon sheath	敷设在垂直式落差的场合，能承受一定机械外压力的固定场合。 To be laid laid on the occasion of vertical drop and able to bear external mechanical forces and for fixed installation.
KGGP3-2G	铜芯硅橡胶绝缘铝/塑复合带屏蔽钢带铠装硅橡胶护套控制电缆 Control cable with Cu core，silicon rubber insulation, Al/polyester tape shielding,steel tape armored,silicon sheath	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”。

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

Cable specification

型号 Type	导体标称截面 mm² 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	/	2~61				2~14		2~10
KGGP2、KGGP3	/	2~61				2~14		2~10
KGG2G	/	7~61			4~61	2~14		2~10
KGGP2-2G、KGGP3-2G	/	7~37			4~61	2~14		2~10
KGG3G	/	7~37				2~14		2~10
KGGP	2~61					/		/
KGGRP	2~61			2~48		/		/

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和61芯。
斜体部分型号不是优先型号。
Recommended number of cores is 2,3,4,5,7,8,10,12,14,16,19,24,27,30,37,44,48,52 and 61.
The Italis part is not preferred.

五、技术参数

Technical Parameter

1、成品电缆20℃时绝缘电阻常数应≥1500MΩ.km，工作温度时绝缘电阻常数应≥0.15MΩ.km；

2、成品电缆应经受工频交流2500V电压试验。绝缘不击穿。

1.Insulation resistance constant of finished cable shall no less than 1500MΩ.km at 20℃ and no less than 0.15MΩ.km at working temperature.

2.Finished cable shall subjected to power frequency AC 2500V voltage test.Insulation without puncture.

六、交货长度

Delivery Length

1、根据双方协议，允许任何长度的电缆交货；

2、长度计量误差不超过±0.5%。

1.Delivery length of cable depends on both agree-ments.

2.The measurement error of lenth is no more than ±0.5%.