

陶瓷性硅橡胶耐火电缆 Ceramic silicon rubber fire resistant cable

产品用途

陶瓷性硅橡胶耐火电缆广泛应用于电视台、医院、影剧院、商厦、地铁、隧道、铁路、机场、车站、大型公共体育、娱乐场所、大型超市、宾馆酒店、高层建筑、军事设施、核电站、煤矿、化工、医药、钢铁、冶金、船舶、民用等等。陶瓷化防火电线电缆硅橡胶，是一种新型的高分子复合材料，能够在750℃×90min火焰烧蚀的情况下，不被烧成粉状灰烬，能成为一种陶瓷状的铠装，形成一层坚硬的保护层，这是一般的橡胶、塑料等高分子材料所不能达到的，从而保护线路不短路、断路。

使用特性

1. 电缆的额定电压 U_0/U 分为0.6/1kV；
2. 电缆导体的最高工作温度180℃；
3. 20℃是导体的直流电阻符合GB/T3956的规定；
4. 电缆敷设时的环境温度不低於-25℃；最小弯曲半径不小于电缆外径的10倍；
5. 工频耐压试验3.5kV/5min不击穿。

Application

Ceramic silicon rubber resistant cable is widely used in television stations, hospitals, theaters, commercial buildings, subways, tunnels, railways, airports, railway stations, large public sports, entertainment, supermarkets, hotels, high-rise buildings, military facilities, nuclear power, coal, chemical, pharmaceutical, steel, metallurgy, shipbuilding, civil and so on. Ceramic silicon rubber is a new type of polymer composite materials, that can fire at 750℃×90min ablative case, not the ashes of burnt powder, can be shaped into ceramic armor, the formation of a layer of hard protective layer, which is the normal rubber, plastics and other polymer materials can not be achieved, and thus does not short-circuit protection circuit, open circuit.

Service property

1. Rated voltage U_0/U should be 0.6/1kV;
2. Maximum operating temperature of cable conductor should be 180℃;
3. Conductor d.c. resistance at 20℃ should comply with GB/T3956;
4. Ambient temperature when cable laid should be not less than -25℃, and minimum bending radius should be not less than 10 times of the cable outer diameter;
5. Withstand frequency voltage test 3.5kV for 5 minutes without puncture.

基本型号及名称 Type and description

型号 Type	名称 Description
TCNH-YGG	铜芯陶瓷性硅橡胶绝缘和护套耐火电力电缆 Copper core ceramic silicon rubber insulated and sheathed fire resistant power cable
TCNH-YGGR	铜芯陶瓷性硅橡胶绝缘和护套耐火软电力电缆 Copper core ceramic silicone rubber insulated and sheathed fire resistant flexible power cable

注：表中未列型号按下面的型号说明组成。

Note: The type not listed in the table should be comprised according to following type explanation.

代号名称和含义 Codes and meanings

项目 Item	代号 Code	说明 Explanation
燃烧特性 Burning characteristic	TCNH	耐火 Fire resistant
系列代号 Series code	Y	移动系列 Movable series



续上表 Continued

项目 Item	代号 Code	说明 Explanation
绝缘 Insulation	G	陶瓷性硅橡胶绝缘 Ceramic silicon rubber insulation
导体 Conductor	R L	铜芯 Copper core 第5种铜导体 Class 5 copper conductor 铝芯 Aluminum core
外护套 Outer sheath	G	陶瓷性硅橡胶护套 Ceramic silicon rubber sheath

主要技术指标

- 1、20℃时导体直流电阻符合GB/T3956规定。
- 2、绝缘标称厚度符合下表规定。
- 3、成品电缆承受交流3.0/5min电压试验不击穿。

Main technical index

1. Conductor d.c. resistance at 20℃ should comply with GB/T3956;
2. Insulation nominal thickness should meet the following table requirements;
3. Finished cable should withstand a.c. voltage 3.0 KV test for 5 minutes without puncture.

基本电缆规格和结构参数 Cable specification and structural parameter

型号 Type	芯数 Number of cores	标称截面mm ² Nominal cross-section
TCNH-YGG、TCNH-YGLG	1	1.5-630
	2	1.5-185
	3	1.5-300
	4	1.5-185
TCNH-YGG、TCNH-YGLG	3+1	4-300
	5	1.5-185
	3+2	4-185
	4+1	4-185

产品结构示意图 Structure diagram

