Halogen Free Flame retardant Fire Resistant Special Control Cables

◆ Standard

Halogen Free flame retardant fire resistant control cable is manufactured according to Q/320412HLC005.

◆ Application

The product is used as control, supervision, measurement and protection circuits of the emergent equipment under 0.6/1kV. It is especially used in subways, underground markers, high-rise buildings, intelligent communication building, power station and so on high safety local.

◆ Product Characteristic

(1) All features of halogen-free low-smoke flame retardant control cables.

(2) Keep the electric supply for 90min in the flame of 800℃.

(3) Max. rated temperature 90℃；

(4) Permitted minimum bending radius:

    No less than 8 times of outer diameter for non-armored cable

    No less than 12 times of outer diameter for armored cable

◆ Technical Data

a: fire Performance

(1) Halogen gas test：PH≥4.3, electric conductivity ≤ 10 μS/mm;

(2) Burning gas release test: Luminousness ≥60%;

(3) Fire resistant test: Pass bundle class B burning test as per ICE60331 and GB/T18380;

(4) Flame retardant test: Pass bundle class A (or B or C) burning test as per ICE60332 and GB/T18380.

b: Electric Performance

(1) Conductor DC resistance shall meet the following requirements

    DC resistance (Table 1)

Table 1

Nominal conductor Section area mm^2	Max. insulation resistance at 20℃ Ω/km
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83

（2）Voltage test 3500V/5min without breakdown.

（3）90℃ insulation resistance constant K not less than 3.67 MΩ•km.

c: Product Specification (Table 2)

Table 2

Type	Rated voltage kV	No. of core× section mm²				
		1.5	2.5	4	6	10
		Core No.				
WDZ-HCMKS$_F$ WDZ-HCMKS$_F$P$_2$ WDZ-HCMKS$_F$E$_{23}$ WDZ-HCMKS$_F$E$_{33}$	0.6/1	2~61		2~14		4~10
				214		
		7~61	4~61	2~14		

Note: Recommend cores are2, 3, 4, 5, 7, 8, 10, 12, 14, 16, 19, 24, 27, 30, 37, 44, 48, 52, 61.

◆ **Type and Name** (Table 3)

Table 3

Type	Name
WDZ-HCMKS$_F$	Copper conductor fluoro-silicone rubber insulated and sheathed halogen free low smoke flame retardant fire resistant control cables
WDZ-HCMKS$_F$P	Copper conductor fluoro-silicone rubber insulated and sheathed Copper braid screened halogen-free low-smoke flame retardant fire resistant control cables
WDZ-HCMKS$_F$P$_2$	Copper conductor fluoro-silicone rubber insulated and sheathed Cu-tape screened halogen-free low-smoke flame retardant fire resistant control cables
WDZ-HCMKS$_F$E$_{23}$	Copper conductor fluoro-silicone rubber insulated polyolefin sheathed steel-tape armored halogen-free low-smoke flame retardant fire resistant control cables
WDZ-HCMKS$_F$E$_{32}$	Copper conductor fluoro-silicone rubber insulated polyolefin sheathed steel wire armored low smoke halogen free flame retardant fire resistant control cables

◆ **Delivery Length**

(1) Length of delivery not less than 100 meters.

(2) Under the consultation of any length to delivery.

(3) The length measurement permission error is less than ± 0.5%.

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