

74C068 SH C 500V ... Cu2/5 K3 EG NA

74C068 SH C 500V 48x1 Cu2 K3 EG NA

Contact

Market information
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Control cables CST 74C068 for nuclear power plants, 500V halogen-free. These cables, installed outside the containment area (K3), are unarmed and designed with copper braid shield.

DESCRIPTION

Applications

These control cables allow connection to a variety of industrial equipment from control room. Many of them require anti-inductive screen (EMI).

Design

Conductor:

- Stranded (class 2) or flexible (class 5) plain copper

Insulation:

- Zero halogen (SH), cross linked

Assembling:

- Polyester tape (optional)

Overall screen:

- Copper wire braid (CWB) R ≥ 80%

Outer sheath:

- Low smoke, zero halogen (LSZH)

- Colour: Grey

Core identification

Black cores printed with white numbers

Optional: with Y/G core

Marking

NEXANS 279 Nber of cores & cross-section Cu EG CST 74 C 068 K3 SH 0.3/0.5 (0.6)
KV YYYY Manufacturing number + metric marking



STANDARDS

International IEC 60228;
IEC 60332-3-23; IEC 60754-1;
IEC 61034-2

National NF C 32-070/C1



Halogen free
IEC 60754-1/IEC
60754-2



Operating temp.
-20 - 60 °C



Smoke density
EN/IEC 61034-2



Fire retardant
NFC 32070 C1/IEC
60332-3-23(B)



Electro magnetic
interference
resistance
Yes



U.V resistance
Yes



Life cycle 60years
Yes



Max. conductor
temp. in service
90 °C

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CHARACTERISTICS

Construction characteristics

| | |
|--------------------|-------------------------|
| Conductor material | Plain copper |
| Type of conductor | Stranded, Class 2 |
| Insulation | Halogen-free |
| Screen | Copper Braid |
| Outer sheath | LSZH |
| Halogen free | IEC 60754-1/IEC 60754-2 |

Dimensional characteristics

| | |
|--------------------------|-------------------|
| Conductor cross-section | 1 mm ² |
| Number of cores | 48 |
| Conductor diameter | 1.3 mm |
| Diameter over insulation | 2.58 mm |
| Diameter over screen | 21.6 mm |
| Minimum outer diameter | 26.0 mm |
| Maximum outer diameter | 30.1 mm |
| Approximate weight | 1190 kg/km |

Electrical characteristics

| | |
|--|---------------|
| Max. DC resistance of the conductor at 20°C | 18.1 Ohm/km |
| Maximum DC resistance of the conductor at 90°C | 23.000 Ohm/km |
| Reactance at 50 Hz | 0.1 Ohm/km |
| Short Circuit Current 0,3 s Max | 0.26 kA |
| Short Circuit Current 1 s Max | 0.14 kA |
| Impedance at 50 Hz | 18.1 Ohm |
| Voltage Drop | 36.9 V/A.km |
| Calorific Power | 10.7 MJ/m |

Usage characteristics

| | |
|--|--------------------------------|
| Operating temperature, range | -20 - 60 °C |
| Smoke density | EN/IEC 61034-2 |
| Fire retardant | NFC 32070 C1/IEC 60332-3-23(B) |
| Electro magnetic interference resistance | Yes |
| U.V resistance | Yes |
| Life cycle 60years | Yes |
| Max. conductor temperature in service | 90 °C |
| Nuclear Classification | Class 1 E Non LOCA/K3 |

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

- 10 x outer diameter
- To be doubled during laying operations