

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

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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	37
Conductor diameter	1.3 mm
Diameter over insulation	2.58 mm
Diameter over screen	18.6 mm
Minimum outer diameter	23.4 mm
Maximum outer diameter	26.5 mm
Approximate weight	960 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	9.1 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