

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

## 74C068 SH C 500V 24x0.5 Cu2 K3 EG NA

### Contact

Market information  
industryprojects.business@nexans.com

**Nexans Ref.:** 10195024  
**EAN 13:** 3427580565700

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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	0.5 mm <sup>2</sup>
Number of cores	24
Conductor diameter	0.9 mm
Diameter over insulation	2.1 mm
Diameter over screen	13.6 mm
Minimum outer diameter	19.9 mm
Maximum outer diameter	17.6 mm
Approximate weight	530 kg/km

#### Electrical characteristics

Max. DC resistance of the conductor at 20°C	36 Ohm/km
Maximum DC resistance of the conductor at 90°C	45.900 Ohm/km
Reactance at 50 Hz	0.112 Ohm/km
Short Circuit Current 0,3 s Max	0.13 kA
Short Circuit Current 1 s Max	0.07 kA
Impedance at 50 Hz	36 Ohm
Voltage Drop	73.6 V/A.km
Calorific Power	5.7 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

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