

# 74C068 SH P ... K3 NA

74C068 SH P 4X95 Cu2 K3 NA

## Contact

Market information  
industryprojects.business@nexans.com

Low voltage cables CST 74C068 for nuclear power plants, 0.6/1kV halogen-free. These cables are intended to be installed outside the containment area (K1).

## DESCRIPTION

### Applications

These low voltage cables are used for lighting system power supply, engine power supply and solenoid valve power supply.

### Design

#### Conductor:

Stranded bare copper or aluminium (class 2)

#### Insulation:

Cross-linked halogen free (SH)

#### Covering (optional):

Halogen free

#### Outer sheath:

Low smoke, zero halogen (LSZH)

Colour: Blue

### Core identification

According to HD308 S2

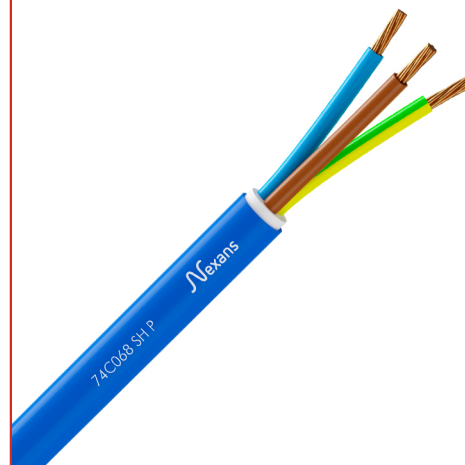
### Marking

NEXANS 279 Nber of cores & cross-section Cu/Al CST 74 C 068 00 K3 SH 0.6/1 (1.2) kV YYYY Manufacturing number + metric marking

### Standard

IEC 60332-3-23(B)

Quality insurance according to RCC-E



## 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



Rated Voltage Uo/U (Um)  
0.6/ 1 (1.2) kV



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



Smoke density  
EN/IEC 61034-2



Operating temp.  
-20 - 60 °C



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.

Generated 5/19/22 www.nexans.fr Page 1 / 2

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## CHARACTERISTICS

### Construction characteristics

|                        |                   |
|------------------------|-------------------|
| Conductor material     | Plain copper      |
| Type of conductor      | Stranded, Class 2 |
| Insulation             | Halogen-free      |
| Outer sheath           | Halogen-free      |
| Halogen free           | IEC 60754-1       |
| With Green/Yellow core | No                |

### Dimensional characteristics

|                          |                    |
|--------------------------|--------------------|
| Conductor cross-section  | 95 mm <sup>2</sup> |
| Number of cores          | 4                  |
| Conductor diameter       | 11.35 mm           |
| Diameter over insulation | 13.55 mm           |
| Minimum outer diameter   | 38.8 mm            |
| Maximum outer diameter   | 42.8 mm            |
| Approximate weight       | 4637 kg/km         |

### Electrical characteristics

|   |                 |
|---|-----------------|
| Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> ) | 0.6/ 1 (1.2) kV |
|---|-----------------|

### Usage characteristics

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

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

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



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U (U<sub>m</sub>)  
0.6/ 1 (1.2) kV



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



Smoke density  
EN/IEC 61034-2



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