



#### CONTACT

Market information  
[industryprojects.business@lynxgroup.com](mailto:industryprojects.business@lynxgroup.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).

#### STANDARDS

**Product** IEC 60228

**Test** IEC 60332-3-23; IEC 60754-1; IEC 61034-2; NF C32-070/C1

#### 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

LYNXEO 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



Halogen free  
 IEC 60754-1



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



Fire retardant  
 NF C 32070 C1; IEC 60332-3-24 (cat.B)



Smoke density  
 EN/IEC 61034-2



Operating temp.  
 -20 ... 60 °C



Max.conductor temp.in service  
 90 °C

## 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  | 10 mm <sup>2</sup> |
| Number of cores          | 4                  |
| Conductor diameter       | 3.85 mm            |
| Diameter over insulation | 5.25 mm            |
| Minimum outer diameter   | 16.6 mm            |
| Maximum outer diameter   | 18.3 mm            |
| Approximate weight       | 646 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                        | NF C 32070 C1; IEC 60332-3-24 (cat.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  
NF C 32070 C1; IEC 60332-3-24  
(cat.B)



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EN/IEC 61034-2



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