



#### CONTACT

Market information  
[industryprojects.business@lynxeogroup.com](mailto:industryprojects.business@lynxeogroup.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	Aluminum
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	70 mm <sup>2</sup>
Number of cores	4
Conductor diameter	9.8 mm
Diameter over insulation	12.0 mm
Minimum outer diameter	34.0 mm
Maximum outer diameter	37.5 mm
Approximate weight	1804 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)



Smoke density  
EN/IEC 61034-2



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in  
service  
90 °C