



**Reference:** 10176317  
**Country Ref.:** 01272419  
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#### CONTACT

Market information  
 industryprojects.business@lynxéo  
 ogroup.com

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.

#### STANDARDS

**Product** IEC 60228

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

#### APPLICATIONS

These control cables allow connection to a variety of industrial equipment from control room. Many of them require anti-inductive screen (EMI).

#### CONSTRUCTION

##### 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

LYNXEO 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



Halogen free  
 IEC 60754-1; IEC 60754-2



Operating temp.  
 -20 ... 60 °C



Smoke density  
 EN/IEC 61034-2



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



Electro magnetic  
 interference  
 resistance  
 Yes



U.V resistance  
 Yes



Life cycle 60years  
 Yes



Max.conductor  
 temp.in service  
 90 °C

## 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 <sup>2</sup>
Number of cores	12
Conductor diameter	1.3 mm
Diameter over insulation	2.58 mm
Diameter over screen	11.4 mm
Minimum outer diameter	14.3 mm
Maximum outer diameter	16.6 mm
Approximate weight	403 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	3.4 MJ/m

### Usage characteristics

Operating temperature, range	-20 ... 60 °C
Smoke density	EN/IEC 61034-2
Fire retardant	NF C 32070 C1; IEC 60332-3-24 (cat.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