



**Reference:** 10257549  
**EAN 13:** 3427580713828

#### CONTACT

Markets and Products Information  
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Control cables CST 74C068 for nuclear power plants, 500V halogen-free. These cables, installed outside the containment area (K3), are unarmed and without shielding.

#### STANDARDS

**Product** IEC 60228

**Test** a; 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.

#### DESIGN

##### Conductor:

- Stranded (class 2) or flexible (class 5) plain copper

##### Insulation:

- Zero halogen (SH), cross-linked

##### Assembling:

- Polyester tape (optional)

##### Outer sheath:

- Low smoke, zero halogen (LSZH)

- Colour: Grey

Core identification

Black cores printed with white numbers

Optional: with Y/G core



Halogen free  
-



Rated Voltage U<sub>0</sub>/U<sub>i</sub>  
(Um)  
0.3/0.5(0.6)kV



Operating temp.  
-20 ... 60 °C



Smoke density  
IEC 61034-2



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



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
Outer sheath	LSZH
Halogen free	-

#### Dimensional characteristics

Conductor cross-section	1 mm <sup>2</sup>
Number of cores	12
Conductor diameter	1.3 mm
Diameter over insulation	2.5 mm
Minimum outer diameter	12.7 mm
Maximum outer diameter	14.7 mm
Approximate weight	295 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	2 MJ/m
Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	0.3/0.5(0.6)kV

#### Usage characteristics

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

#### Marking

LYNXEO 279 Nber of cores & cross-section Cu CST 74 C 068 K3 SH 0.3/0.5(0.6) kV YYYY Manufacturing number + metric marking