



Reference: 10257549
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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 U₀/U_m
(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 ²
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 _o /U (U _m)	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