



Reference: 10176333
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CONTACT

Market 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 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 | 1.5 mm ² |
| Number of cores | 4 |
| Conductor diameter | 1.5 mm |
| Diameter over insulation | 2.84 mm |
| Diameter over screen | 7.6 mm |
| Minimum outer diameter | 9.7 mm |
| Maximum outer diameter | 11.2 mm |
| Approximate weight | 207 kg/km |

Electrical characteristics

| | |
|--|---------------|
| Max. DC resistance of the conductor at 20°C | 12.1 Ohm/km |
| Maximum DC resistance of the conductor at 90°C | 15.400 Ohm/km |
| Reactance at 50 Hz | 0.094 Ohm/km |
| Short Circuit Current 0,3 s Max | 0.39 kA |
| Short Circuit Current 1 s Max | 0.21 kA |
| Impedance at 50 Hz | 12.1 Ohm |
| Voltage Drop | 24.8 V/A.km |
| Calorific Power | 1.5 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