



Reference: 10176318
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CONTACT

Market information
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- CST 74C068
- Quality insurance according to RCC-E
- Zero halogen (SH)
- Control cables 0.3/0.5 (0.6) kV
- **Cables installed inside of the containment area (K1)**
- Overall Screen (EG)
- Unarmoured (NA)

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. 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)

Inner sheath:

- Low smoke, zero halogen (LSZH)

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 G/Y core

Marking

LYNXEO 279 Nber of cores & cross-section Cu EG CST 74 C 068 K1 SH 0.3/0.5 (0.6) kV YYYY Manufacturing number + metric marking



Halogen free
 IEC 60754-1; IEC 60754-2



Rated Voltage U_o/U_m
 (Um)
 0.3/0.5(0.6)kV



Operating temp.
 -20 ... 60 °C



Smoke density
 -



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



Electro magnetic
 interference
 resistance
 Yes



Life cycle 60years
 Yes



Radiation resistant
 Yes

CHARACTERISTICS**Construction characteristics**

Conductor material	Plain copper
Type of conductor	Stranded, class 2
Insulation	Halogen-free
Inner sheath	LSZH
Screen	Copper Braid
Outer sheath	LSZH
Halogen free	IEC 60754-1; IEC 60754-2

Dimensional characteristics

Conductor cross-section	1 mm ²
Number of cores	12
Conductor diameter	1.3 mm
Diameter over insulation	2.5 mm
Diameter over inner sheath	12.4 mm
Diameter over screen	13.4 mm
Minimum outer diameter	15.1 mm
Maximum outer diameter	18.0 mm
Approximate weight	470 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	32.0 V/A.km
Calorific Power	5 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	-
Fire retardant	NF C 32070 C1; IEC 60332-3-24 (cat.B)
Electro magnetic interference resistance	Yes
Life cycle 60years	Yes
Radiation resistant	Yes
Loss of coolant accident resistant	Yes
U.V resistance	Yes
Max. conductor temperature in service	90 °C
Nuclear Classification	Class 1 E LOCA /K1

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations