



**Reference:** 10220646  
**Country Ref.:** 01270447  
**EAN 13:** 3427580644184

#### 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 outside of the containment area (K3)**
- Overall Screen (EG)
- Armoured by braid (TZ) or tapes (AR)

#### 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). They are well adapted to underground use.

#### CONSTRUCTION

##### Conductor:

- Stranded plain copper (class 2)

##### Insulation:

- Zero halogen (SH), cross-linked

##### Assembling:

- Polyester tape (optional)

##### Overall screen:

- Copper wire braid (CWB) R ≥ 80%

##### Inner sheath:

- Low smoke, zero halogen (LSZH)

##### Armour:

- Galvanized steel braid (Tz) ≤ 4 conductors
- Steel tapes (Ar) > 4 conductors

##### 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 ARME 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



Mechanical resistance to impacts  
 Good



Operating temp.  
 -20 ... 60 °C



Smoke density  
 -



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

## CHARACTERISTICS

### Construction characteristics

Conductor material	Plain copper
Type of conductor	Stranded, class 2
Insulation	Halogen-free
Screen	Bare copper braid
Inner sheath	LSZH
Armour type	Galvanized Steel Braid
Outer sheath	LSZH
Halogen free	IEC 60754-1; IEC 60754-2
With Green/Yellow core	No

### Dimensional characteristics

Conductor cross-section	1 mm <sup>2</sup>
Number of cores	2
Conductor diameter	1.3 mm
Diameter over insulation	2.5 mm
Diameter over screen	5.8 mm
Diameter over inner sheath	7.4 mm
Diameter over armour	8.9 mm
Minimum outer diameter	11.7 mm
Maximum outer diameter	13.4 mm
Approximate weight	259 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	2.3 MJ/m

### Mechanical characteristics

Mechanical resistance to impacts	Good
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### 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



Halogen free  
IEC 60754-1; IEC 60754-2



Mechanical resistance to impacts  
Good



Operating temp.  
-20 ... 60 °C



Smoke density  
-



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

**Usage characteristics**

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



Halogen free  
 IEC 60754-1; IEC 60754-2



Mechanical resistance to impacts  
 Good



Operating temp.  
 -20 ... 60 °C



Smoke density  
 -



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