



**Reference:** 10267220  
**EAN 13:** 3427580728518

#### 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            | Steel tapes              |
| Outer sheath           | LSZH                     |
| Halogen free           | IEC 60754-1; IEC 60754-2 |
| With Green/Yellow core | No                       |

### Dimensional characteristics

|                            |                     |
|----------------------------|---------------------|
| Conductor cross-section    | 1.5 mm <sup>2</sup> |
| Number of cores            | 48                  |
| Conductor diameter         | 1.5 mm              |
| Diameter over insulation   | 2.7 mm              |
| Diameter over screen       | 23.4 mm             |
| Diameter over inner sheath | 26.6 mm             |
| Diameter over armour       | 27.5 mm             |
| Minimum outer diameter     | 29.2 mm             |
| Maximum outer diameter     | 33.6 mm             |
| Approximate weight         | 1910 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                             | 0.096 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                                | 8.3 MJ/m      |

### Mechanical characteristics

|                                  |      |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

### 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



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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

### Marking

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