



Reference: 10219596
Country Ref.: 01270451
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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 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 mm ² |
| Number of cores | 12 |
| Conductor diameter | 1.3 mm |
| Diameter over insulation | 2.5 mm |
| Diameter over screen | 11.9 mm |
| Diameter over inner sheath | 14.3 mm |
| Diameter over armour | 15.2 mm |
| Minimum outer diameter | 18.1 mm |
| Maximum outer diameter | 20.4 mm |
| Approximate weight | 631 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 | 4.1 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



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

Marking

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kV YYYY Manufacturing number + metric marking



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