



CONTACT

Market information
industryprojects.business@lynxeogroup.com

- 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



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



LOCA
Yes

CHARACTERISTICS

Construction characteristics

| | |
|--------------------|--------------------------|
| Conductor material | Plain copper |
| Insulation | Halogen-free |
| Inner sheath | LSZH |
| Screen | Copper Braid |
| Outer sheath | LSZH |
| Halogen free | IEC 60754-1; IEC 60754-2 |

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 |

STRANDED CLASS 2

| Reference | Name | Cross section [mm²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over screen [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] |
|-----------|--|---------------------|--------------|----------------------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|
| 10176306 | 74C068 SH C 500V 2x1 Cu2 K1 EG NA | 1 | 2 | 1.3 | 2.5 | 6.6 | 7.6 | 9.5 | 11.0 | 185 |
| 10176308 | 74C068 SH C 500V 3x1 Cu2 K1 EG NA | 1 | 3 | 1.3 | 2.5 | 6.9 | 8.0 | 10.1 | 11.4 | 205 |
| 10176310 | 74C068 SH C 500V 4x1 Cu2 K1 EG NA | 1 | 4 | 1.3 | 2.5 | 7.6 | 8.6 | 10.6 | 12.2 | 230 |
| 10176314 | 74C068 SH C 500V 7x1 Cu2 K1 EG NA | 1 | 7 | 1.3 | 2.5 | 9 | 10.0 | 11.8 | 13.6 | 295 |
| 10176316 | 74C068 SH C 500V 9x1 Cu2 K1 EG NA | 1 | 9 | 1.3 | 2.5 | 11.1 | 12.1 | 13.7 | 16.5 | 400 |
| 10176318 | 74C068 SH C 500V 12x1 Cu2 K1 EG NA | 1 | 12 | 1.3 | 2.5 | 12.4 | 13.4 | 15.1 | 18.0 | 470 |
| 10176320 | 74C068 SH C 500V 14x1 Cu2 K1 EG NA | 1 | 14 | 1.3 | 2.5 | 13.1 | 14.4 | 16.3 | 19.5 | 550 |

| Reference | Name | Cross section [mm²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over screen [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] |
|-----------|--|---------------------|--------------|----------------------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|
| 10176330 | 74C068 SH C 500V 2x1,5 Cu2 K1 EG NA | 1.5 | 2 | 1.5 | 2.7 | 6.9 | 8.0 | 10.1 | 11.5 | 205 |
| 10176332 | 74C068 SH C 500V 3x1,5 Cu2 K1 EG NA | 1.5 | 3 | 1.5 | 2.7 | 7.3 | 8.4 | 10.4 | 12.0 | 235 |
| 10176334 | 74C068 SH C 500V 4x1,5 Cu2 K1 EG NA | 1.5 | 4 | 1.5 | 2.7 | 8 | 9.1 | 10.9 | 12.8 | 267 |
| 10176342 | 74C068 SH C 500V 12x1,5 Cu2 K1 EG NA | 1.5 | 12 | 1.5 | 2.7 | 13.3 | 14.6 | 16.7 | 19.9 | 610 |
| 10176346 | 74C068 SH C 500V 19x1,5 Cu2 K1 EG NA | 1.5 | 19 | 1.5 | 2.7 | 15.8 | 17.1 | 19.4 | 22.9 | 860 |

FLEXIBLE CLASS 5

| Reference | Name | Cross section [mm²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over inner sheath [mm] | Diam. over screen [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] |
|-----------|--|---------------------|--------------|----------------------|----------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|
| 10176402 | 74C068 SH C 500V 27x0,5 Cu5 K1 EG NA | 0.5 | 27 | 0.9 | 2.1 | 15.8 | 16.8 | 18.3 | 21.7 | 726 |
| 10263790 | 74C068 SH C 500V 2x1 Cu5 K1 EG NA | 1 | 2 | 1.3 | 2.5 | 6.6 | 7.7 | 9.5 | 11.0 | 185 |
| 10243990 | 74C068 SH C 500V 3x1 Cu5 K1 EG NA | 1 | 3 | 1.3 | 2.5 | 7 | 8.0 | 10.1 | 11.4 | 200 |

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter

To be doubled during laying operations