



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 |
| Outer sheath | LSZH |
| Halogen free | IEC 60754-1; IEC 60754-2 |

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 |
| U.V resistance | Yes |
| Life cycle 60years | Yes |
| Max. conductor temperature in service | 90 °C |
| Nuclear Classification | Class 1 E Non LOCA/K3 |

GALVARIZED STEEL BRAID ARMOUR

| Reference | Name | Cross section [mm ²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over screen [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|--------------------------------------|----------------------------------|--------------|----------------------|----------------------------|------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10262014 | 74C068 SH C 500V 4x0.5 Cu2 K3 EG Tz | 0.5 | 4 | 0.9 | 2.1 | 5.9 | 7.5 | 9.0 | 11.8 | 13.6 | 265 | No |
| 10230519 | 74C068 SH C 500V 2x0.75 Cu2 K3 EG Tz | 0.75 | 2 | 1.1 | 2.3 | 5.4 | 7 | 8.5 | 11.7 | 13.4 | 240 | No |



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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

| Reference | Name | Cross section [mm ²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over screen [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|-------------------------------------|----------------------------------|--------------|----------------------|----------------------------|------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10220646 | 74C068 SH C 500V 2x1 Cu2 K3 EG Tz | 1 | 2 | 1.3 | 2.5 | 5.8 | 7.4 | 8.9 | 11.7 | 13.4 | 259 | No |
| 10220647 | 74C068 SH C 500V 3x1 Cu2 K3 EG Tz | 1 | 3 | 1.3 | 2.5 | 6.4 | 7.8 | 9.3 | 12.1 | 13.9 | 281 | No |
| 10220648 | 74C068 SH C 500V 4x1 Cu2 K3 EG Tz | 1 | 4 | 1.3 | 2.5 | 6.9 | 8.9 | 10.1 | 13.2 | 15.0 | 329 | No |
| 10220684 | 74C068 SH C 500V 2x1.5 Cu2 K3 EG Tz | 1.5 | 2 | 1.5 | 2.7 | 6.5 | 8.1 | 9.3 | 12.2 | 13.9 | 284 | No |
| 10220685 | 74C068 SH C 500V 3x1.5 Cu2 K3 EG Tz | 1.5 | 3 | 1.5 | 2.7 | 6.9 | 8.7 | 9.9 | 13.0 | 14.8 | 328 | No |
| 10220686 | 74C068 SH C 500V 4x1.5 Cu2 K3 EG Tz | 1.5 | 4 | 1.5 | 2.7 | 7.8 | 9.6 | 10.9 | 13.9 | 15.9 | 388 | No |
| 10230168 | 74C068 SH C 500V 3x2.5 Cu2 K3 EG Tz | 2.5 | 3 | 1.9 | 3.1 | 7.8 | 10 | 11.3 | 14.5 | 16.5 | 410 | No |



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

STEEL TAPES ARMOUR

| Reference | Name | Cross section [mm ²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over screen [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|-------------------------------------|----------------------------------|--------------|----------------------|----------------------------|------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10219597 | 74C068 SH C 500V 7x1 Cu2 K3 EG Ar | 1 | 7 | 1.3 | 2.5 | 8.8 | 11 | 12.0 | 15.2 | 17.3 | 438 | No |
| 10233671 | 74C068 SH C 500V 9x1 Cu2 K3 EG Ar | 1 | 9 | 1.3 | 2.5 | 10.0 | 12.2 | 13.1 | 16.3 | 18.5 | 500 | No |
| 10219596 | 74C068 SH C 500V 12x1 Cu2 K3 EG Ar | 1 | 12 | 1.3 | 2.5 | 11.9 | 14.3 | 15.2 | 18.1 | 20.4 | 631 | No |
| 10220651 | 74C068 SH C 500V 19x1 Cu2 K3 EG Ar | 1 | 19 | 1.3 | 2.5 | 14.3 | 16.9 | 17.8 | 21.0 | 23.3 | 860 | No |
| 10220652 | 74C068 SH C 500V 27x1 Cu2 K3 EG Ar | 1 | 27 | 1.3 | 2.5 | 17.3 | 20.1 | 21.0 | 24.2 | 26.8 | 1100 | No |
| 10220653 | 74C068 SH C 500V 37x1 Cu2 K3 EG Ar | 1 | 37 | 1.3 | 2.5 | 18.6 | 21.4 | 22.3 | 24.2 | 27.8 | 1265 | No |
| 10220687 | 74C068 SH C 500V 7x1.5 Cu2 K3 EG Ar | 1.5 | 7 | 1.5 | 2.7 | 9.5 | 11.5 | 12.4 | 15.5 | 17.6 | 502 | No |
| 10260238 | 74C068 SH C 500V 8x1.5 Cu2 K3 EG Ar | 1.5 | 8 | 1.5 | 2.7 | 10.2 | 12.4 | 13.3 | 15.8 | 18.2 | 545 | No |



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Electro magnetic interference resistance
Yes



U.V resistance
Yes



Life cycle 60years
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| Reference | Name | Cross section [mm ²] | Nb. of cores | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over screen [mm] | Diam. over inner sheath [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|--------------------------------------|----------------------------------|--------------|----------------------|----------------------------|------------------------|------------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10220688 | 74C068 SH C 500V 12x1.5 Cu2 K3 EG Ar | 1.5 | 12 | 1.5 | 2.7 | 12.8 | 15 | 15.9 | 19.0 | 21.4 | 738 | No |
| 10220689 | 74C068 SH C 500V 19x1.5 Cu2 K3 EG Ar | 1.5 | 19 | 1.5 | 2.7 | 15.4 | 17.8 | 18.7 | 21.8 | 24.5 | 1012 | No |
| 10220690 | 74C068 SH C 500V 27x1.5 Cu2 K3 EG Ar | 1.5 | 27 | 1.5 | 2.7 | 18.7 | 21.5 | 22.4 | 25.3 | 28.4 | 1324 | No |
| 10220691 | 74C068 SH C 500V 37x1.5 Cu2 K3 EG Ar | 1.5 | 37 | 1.5 | 2.7 | 21.3 | 24.3 | 25.2 | 28.2 | 31.7 | 1699 | No |
| 10267220 | 74C068 SH C 500V 48x1.5 Cu2 K3 EG Ar | 1.5 | 48 | 1.5 | 2.7 | 23.4 | 26.6 | 27.5 | 29.2 | 33.6 | 1910 | No |
| 10236497 | 74C068 SH C 500V 4G2.5 Cu2 K3 EG Ar | 2.5 | 4 | 1.9 | 3.1 | 8.6 | 10.8 | 12.3 | 14.7 | 16.7 | 465 | Yes |

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations



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U.V resistance
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Life cycle 60years
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