

### CONTACT

Market information  
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- Low voltage cables 0.6/1 (1.2) V
- CST 74C068
- Zero halogen (SH)
- **Cables installed outside of the containment area (K3)**
- Armoured (NA)

### STANDARDS

**Product** IEC 60228

**Test** IEC 60332-3-23; IEC 60754-1; IEC 61034-2; NF C32-070/C1

### APPLICATIONS

These low voltage cables are used for lighting system power supply, engine power supply and solenoid valve power supply. They are well adapted to under ground use.

### DESIGN

#### Design

##### Conductor:

Stranded bare copper or aluminium (class 2)

##### Insulation:

Cross-linked halogen free (SH)

##### Covering (optional):

Flame retardant filler material

##### Inner sheath:

Low smoke, zero halogen (LSZH)

##### Armour:

Steel tape (STA) or aluminium tape (ATA) for 1 core cable

##### Outer sheath:

Low smoke, zero halogen (LSZH)

Colour: Blue

### Core identification

According to HD308 S2

### Marking

LYNXEO 279 Nber of cores & cross-section Cu/Al Armé CST 74C 068 00 K3 SH 0.6/1 (1.2) kV YYYY Manufacturing number + metric marking



Halogen free  
IEC 60754-1



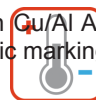
Rated Voltage Uo/U (Um)  
0.6/ 1 (1.2) kV



Fire retardant  
NF C 32070 C1; IEC 60332-3-24 (cat B)



Smoke density  
EN/IEC 61034-2



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
90 °C

### STANDARD

### Standard

All data in this document (specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxéo is indicative only and shall not be binding on Lynxéo or be treated as constituting a representation on the part of Lynxéo.  
 Quality insurance according to ISO 9001

## CHARACTERISTICS

### Construction characteristics

|                   |                   |
|-------------------|-------------------|
| Type of conductor | Stranded, class 2 |
| Insulation        | Halogen-free      |
| Outer sheath      | Halogen-free      |
| Halogen free      | IEC 60754-1       |

### Electrical characteristics

|   |                 |
|---|-----------------|
| Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> ) | 0.6/ 1 (1.2) kV |
|---|-----------------|

### Usage characteristics

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Fire retardant                        | NF C 32070 C1; IEC 60332-3-24 (cat.B) |
| Smoke density                         | EN/IEC 61034-2                        |
| Operating temperature, range          | -20 ... 60 °C                         |
| Max. conductor temperature in service | 90 °C                                 |
| Nuclear Classification                | Class 1 E Non LOCA/K3                 |

## 1 CONDUCTOR

| Reference Name              | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 74C068 SH P 1x240 Cu2 K3 AR | Plain copper       | 240                              | 18.3                 | 21.7                       | 27.0                   | 30.1                  | 33.9                  | 2883                   | No                |

## 2 CONDUCTORS

| Reference Name                       | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|--------------------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10176143 74C068 SH P 2x2,5 Cu2 K3 AR | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 10.1                   | 12.8                  | 15.0                  | 335                    | No                |
| 10176149 74C068 SH P 2x6 Cu2 k3 AR   | Plain copper       | 6                                | 2.95                 | 4.31                       | 12.5                   | 15.3                  | 17.8                  | 475                    | No                |



Halogen free  
IEC 60754-1



Rated Voltage U<sub>o</sub>/U (U<sub>m</sub>)  
0.6/ 1 (1.2) kV



Fire retardant  
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Smoke density  
EN/IEC 61034-2



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
90 °C

| Reference | Name                       | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|----------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10176155  | 74C068 SH P 2x16 Cu2 k3 AR | Plain copper       | 16                               | 4.8                  | 6.16                       | 15.8                   | 18.4                  | 21.2                  | 801                    | No                |

### 3 CONDUCTORS

| Reference | Name                         | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|------------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10221827  | 74C068 SH P 3x240 Alu2 k3 AR | Aluminum           | 240                              | 18.0                 | 46.1                       | 52.6                   | 56.9                  | 63.2                  | 5647                   | No                |
| 10176144  | 74C068 SH P 3x2,5 Cu2 K3 AR  | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 11.0                   | 13.8                  | 15.6                  | 378                    | No                |
| 10219595  | 74C068 SH P 3G2,5 Cu2 K3 AR  | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 11.0                   | 13.8                  | 15.6                  | 378                    | Yes               |
| 10176150  | 74C068 SH P 3x6 Cu2 k3 AR    | Plain copper       | 6                                | 2.95                 | 4.31                       | 12.8                   | 15.5                  | 18.0                  | 544                    | No                |
| 10176162  | 74C068 SH P 3x35 Cu2 k3 AR   | Plain copper       | 35                               | 7.0                  | 8.76                       | 22.4                   | 25.3                  | 28.7                  | 1746                   | No                |
|           | 74C068 SH P 3x95 Cu2 K3 Ar   | Plain copper       | 95                               | 11.4                 | 13.6                       | 33.1                   | 36.5                  | 41.0                  | 3985                   | No                |



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0.6/ 1 (1.2) kV



Fire retardant  
NF C 32070 C1; IEC 60332-3-24  
(cat.B)



Smoke density  
EN/IEC 61034-2



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in  
service  
90 °C

## 4 CONDUCTORS

| Reference | Name                        | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|-----------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10176145  | 74C068 SH P 4x2,5 Cu2 K3 AR | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 11.8                   | 14.6                  | 17.0                  | 428                    | No                |
| 10224741  | 74C068 SH P 4G2,5 Cu2 k3 AR | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 11.8                   | 14.6                  | 17.0                  | 428                    | Yes               |
| 10176151  | 74C068 SH P 4x6 Cu2 k3 AR   | Plain copper       | 6                                | 2.95                 | 4.31                       | 14.0                   | 17.1                  | 19.8                  | 648                    | No                |
| 10176157  | 74C068 SH P 4x16 Cu2 k3 AR  | Plain copper       | 16                               | 4.8                  | 6.16                       | 18.8                   | 21.6                  | 24.7                  | 1256                   | No                |
| 10176163  | 74C068 SH P 4x35 Cu2 K3 AR  | Plain copper       | 35                               | 7.0                  | 8.8                        | 25.1                   | 28.2                  | 31.9                  | 2240                   | No                |

## 5 CONDUCTORS

| Reference | Name                        | Conductor material | Cross section [mm <sup>2</sup> ] | Conductor diam. [mm] | Diam. over insulation [mm] | Diam. over armour [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|-----------------------------|--------------------|----------------------------------|----------------------|----------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10221775  | 74C068 SH P 5G2,5 Cu2 k3 AR | Plain copper       | 2.5                              | 1.91                 | 3.27                       | 12.8                   | 15.6                  | 18.1                  | 479                    | Yes               |
| 10224781  | 74C068 SH P 5G6 Cu2 k3 AR   | Plain copper       | 6                                | 2.95                 | 4.31                       | 15.6                   | 18.3                  | 21.1                  | 748                    | Yes               |

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations



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