



### CONTACT

Market information  
[industryprojects.business@lynxgroup.com](mailto:industryprojects.business@lynxgroup.com)

- 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
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### 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 <sup>2</sup> ]	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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Good



Operating temp.  
-20 ... 60 °C



Smoke density  
-



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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 [mm²]	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



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Good



Operating temp.  
-20 ... 60 °C



Smoke density  
-



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Electro magnetic interference resistance  
Yes



U.V resistance  
Yes



Life cycle 60years  
Yes

## STEEL TAPES ARMOUR

Reference	Name	Cross section [mm <sup>2</sup> ]	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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-



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U.V resistance  
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Life cycle 60years  
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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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