



### CONTACT

Market information  
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- Low voltage cables 0.6/1 (1.2) V
- CST 74C068
- Zero halogen (SH)
- **Cables installed inside of the containment area (K1)**
- Unarmoured (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.

### DESIGN

#### Design

##### Conductor:

Stranded bare copper or aluminium (class 2)

##### Insulation:

Cross-linked halogen free (SH)

##### Covering (optional):

Halogen free

##### 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 CST 74 C 068 00 K1 SH 0.6/1 (1.2) kV YYYY Manufacturing number + metric marking

### STANDARD



Halogen free  
IEC 60754-1



Rated Voltage U<sub>0</sub>/U<sub>m</sub>  
(Um)  
0.6/1 (1.2) kV



Standard  
IEC 60332-3-23(B)  
Fire retardant  
NF C 32070 C1;  
EN/IEC 61034-2  
Smoke density  
EN/IEC 61034-2  
insurance according to RCC-E  
(cat.B)



Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

## CHARACTERISTICS

### Construction characteristics

Insulation	Halogen-free
Outer sheath	Halogen-free
Halogen free	IEC 60754-1

### Electrical characteristics

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

Fire retardant	NF C 32070 C1; IEC 60332-3-24 (cat.B)
Smoke density	EN/IEC 61034-2
Radiation resistant	Yes
Loss of coolant accident resistant	Yes
Life cycle 60years	Yes
Max. conductor temperature in service	90 °C
Operating temperature, range	-20 ... 60 °C
Nuclear Classification	Class 1 E LOCA /K1

## 1 CORE COPPER

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 1X50 Cu2 K1 NA	50	Stranded, class 2	8.2	10.2	15.3	16.9	645
74C068 SH P 1X70 Cu2 K1 NA	70	Stranded, class 2	9.8	12.0	18.4	20.3	932
74C068 SH P 1X95 Cu2 K1 NA	95	Stranded, class 2	11.35	13.55	19.9	22.0	1193
74C068 SH P 1X185 Cu2 K1 NA	185	Stranded, class 2	15.85	19.05	25.9	28.5	2184
74C068 SH P 1X240 Cu2 K1 NA	240	Stranded, class 2	18.2	21.6	28.3	31.2	2766
74C068 SH P 1X300 Cu2 K1 NA	300	Stranded, class 2	20.6	24.2	30.8	34.0	3389



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(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



Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 1X400 Cu2 K1 NA	400	Stranded, class 2	23.7	27.7	34.6	38.2	4286

## 1 CORE ALUMINIUM

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 1X240 Alu2 K1 NA	240	Stranded, class 2	18.0	21.4	28.1	31.0	1301
74C068 SH P 1X300 Alu2 K1 NA	300	Stranded, class 2	20.5	24.1	30.7	33.9	1562
74C068 SH P 1X400 Alu2 K1 NA	400	Stranded, class 2	23.2	27.2	34.1	37.7	1936
74C068 SH P 1X500 Alu2 K1 NA	500	Stranded, class 2	26.4	30.8	37.8	41.7	2385
74C068 SH P 1X630 Alu2 K1 NA	630	Stranded, class 2	30.3	35.1	42.2	46.5	2957

## 2 CORES COPPER

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 2x1.5 Cu2 K1 NA	1.5	Stranded, class 2	1.55	2.95	9.8	11.0	180
74C068 SH P 2X4 Cu2 K1 NA	4	Stranded, class 2	2.55	3.95	11.8	13.2	291
74C068 SH P 2X6 Cu2 K1 NA	6	Stranded, class 2	2.95	4.35	12.6	14.0	305
74C068 SH P 2X10 Cu2 K1 NA	10	Stranded, class 2	3.85	5.25	14.4	15.9	428



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



Smoke density  
EN/IEC 61034-2



Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

Reference	Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	74C068 SH P 2X16 Cu2 K1 NA	16	Stranded, class 2	4.85	6.25	16.4	18.1	593
	74C068 SH P 2X25 Cu2 K1 NA	25	Stranded, class 2	6.1	7.9	19.6	21.6	883
	74C068 SH P 2X35 Cu2 K1 NA	35	Stranded, class 2	7.1	8.9	21.5	23.8	1132
	74C068 SH P 2X50 Cu2 K1 NA	50	Stranded, class 2	8.2	10.2	25.2	27.8	1550
	74C068 SH P 2X70 Cu2 K1 NA	70	Stranded, class 2	9.8	12.0	28.7	31.7	2099
	74C068 SH P 2X95 Cu2 K1 NA	95	Stranded, class 2	11.35	13.55	32.1	35.4	2755
	74C068 SH P 2X150 Cu2 K1 NA	150	Stranded, class 2	14.17	16.97	41.1	45.3	4414
	74C068 SH P 2X240 Cu2 K1 NA	240	Stranded, class 2	18.2	21.6	50.6	55.9	6979

### 3 CORES COPPER

Reference	Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10210711	74C068 SH P 3X1.5 Cu2 K1 NA	1.5	Stranded, class 2	1.55	2.95	10.3	11.5	198
10189567	74C068 SH P 3X2.5 Cu2 K1 NA	2.5	Stranded, class 2	2.0	3.4	11.2	12.6	251
	74C068 SH P 3X4 Cu2 K1 NA	4	Stranded, class 2	2.55	3.95	12.4	13.8	330
	74C068 SH P 3X6 Cu2 K1 NA	6	Stranded, class 2	2.95	4.35	13.3	14.8	368



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(cat.B)



Smoke density  
EN/IEC 61034-2



Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 3X10 Cu2 K1 NA	10	Stranded, class 2	3.85	5.25	15.2	16.8	527
74C068 SH P 3X16 Cu2 K1 NA	16	Stranded, class 2	4.85	6.25	17.4	19.2	743
74C068 SH P 3X25 Cu2 K1 NA	25	Stranded, class 2	6.1	7.9	20.8	23.0	1116
74C068 SH P 3X35 Cu2 K1 NA	35	Stranded, class 2	7.1	8.9	22.9	25.3	1447
74C068 SH P 3X50 Cu2 K1 NA	50	Stranded, class 2	8.2	10.2	26.8	29.6	1977
74C068 SH P 3X70 Cu2 K1 NA	70	Stranded, class 2	9.8	12.0	30.8	33.9	2716
74C068 SH P 3X95 Cu2 K1 NA	95	Stranded, class 2	11.35	13.55	35.2	38.8	3673
74C068 SH P 3X120 SC Cu2 K1 NA	120	Sector-shaped, stranded	-	-	36.4	40.1	4318
74C068 SH P 3X120 Cu2 K1 NA	120	Stranded, class 2	12.86	15.26	39.9	44.0	4684
74C068 SH P 3X150 Cu2 K1 NA	150	Stranded, class 2	14.17	16.97	43.9	48.4	5721
74C068 SH P 3X240 Cu2 K1 NA	240	Stranded, class 2	18.2	21.6	54.2	59.8	9106

### 3 CORES ALUMINIUM

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 3X50 Alu2 K1 NA	50	Stranded, class 2	8.1	10.1	26.6	29.3	1115



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(cat.B)



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Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 3X70 Alu2 K1 NA	70	Stranded, class 2	9.8	12.0	30.8	33.9	1498
74C068 SH P 3X95 Alu2 K1 NA	95	Stranded, class 2	11.3	13.5	35.1	38.7	1980
74C068 SH P 3X120 Alu2 K1 NA	120	Stranded, class 2	12.8	15.2	39.8	43.9	2547
74C068 SH P 3X150 Alu2 K1 NA	150	Stranded, class 2	14.1	16.9	43.7	48.3	3052
74C068 SH P 3X185 Alu2 K1 NA	185	Stranded, class 2	16.1	19.3	49.0	54.0	3807
74C068 SH P 3X240 Alu2 K1 NA	240	Stranded, class 2	18.0	21.4	53.8	59.3	4649
74C068 SH P 3X300 Alu2 K1 NA	300	Stranded, class 2	20.5	24.1	59.8	66.0	5750
74C068 SH P 3X400 Alu2 K1 NA	400	Stranded, class 2	23.2	27.2	66.9	73.8	7210

## 4 CORES COPPER

Reference Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH P 4X1.5 Cu2 K1 NA	1.5	Stranded, class 2	1.55	2.95	11.0	12.3	228
74C068 SH P 4X2.5 Cu2 K1 NA	2.5	Stranded, class 2	2.0	3.4	12.1	13.5	292
74C068 SH P 4X4 Cu2 K1 NA	4	Stranded, class 2	2.55	3.95	13.5	14.9	389
74C068 SH P 4X6 Cu2 K1 NA	6	Stranded, class 2	2.95	4.35	14.4	16.0	445



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Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp. in service  
90 °C

Reference	Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	74C068 SH P 4X10 Cu2 K1 NA	10	Stranded, class 2	3.85	5.25	16.6	18.3	646
	74C068 SH P 4X16 Cu2 K1 NA	16	Stranded, class 2	4.85	6.25	18.9	20.9	920
	74C068 SH P 4X25 Cu2 K1 NA	25	Stranded, class 2	6.1	7.9	22.8	25.2	1390
	74C068 SH P 4X35 Cu2 K1 NA	35	Stranded, class 2	7.1	8.9	25.2	27.8	1813
	74C068 SH P 4X50 Cu2 K1 NA	50	Stranded, class 2	8.2	10.2	29.6	32.6	2487
	74C068 SH P 4X70 Cu2 K1 NA	70	Stranded, class 2	9.8	12.0	34.0	37.5	3428
	74C068 SH P 4X95 SC Cu2 K1 NA	95	Sector-shaped, stranded	-	-	36.6	40.3	4458
	74C068 SH P 4X95 Cu2 K1 NA	95	Stranded, class 2	11.35	13.55	38.8	42.8	4637
	74C068 SH P 4X120 SC Cu2 K1 NA	120	Sector-shaped, stranded	-	-	41.1	45.4	5641
	74C068 SH P 4X120 Cu2 K1 NA	120	Stranded, class 2	12.86	15.26	44.2	48.7	5926
	74C068 SH P 4X150 Cu2 K1 NA	150	Stranded, class 2	14.17	16.97	48.4	53.4	7217

## 4 CORES ALUMINIUM

Reference	Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	74C068 SH P 4X70 Alu2 K1 NA	70	Stranded, class 2	9.8	12.0	34.0	37.5	1804



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



Smoke density  
EN/IEC 61034-2



Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp.in service  
90 °C

Reference	Name	Cross section [mm <sup>2</sup> ]	Type of conductor	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	74C068 SH P 4X95 Alu2 K1 NA	95	Stranded, class 2	11.3	13.5	38.7	42.7	2381
	74C068 SH P 4X120 Alu2 K1 NA	120	Stranded, class 2	12.8	15.2	44.0	48.6	3078
	74C068 SH P 4X150 Alu2 K1 NA	150	Stranded, class 2	14.1	16.9	48.2	53.2	3661
	74C068 SH P 4X185 Alu2 K1 NA	185	Stranded, class 2	16.1	19.3	54.2	59.8	4600
	74C068 SH P 4X240 Alu2 K1 NA	240	Stranded, class 2	18.0	21.4	59.5	65.7	5625
	74C068 SH P 4X300 Alu2 K1 NA	300	Stranded, class 2	20.5	24.1	66.3	73.1	6958

## SELLING AND DELIVERY INFORMATION

Minimum bending radius:

8 x outer diameter  
To be doubled during laying operations



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Smoke density  
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Radiation resistant  
Yes



LOCA  
Yes



Life cycle 60years  
Yes



Max. conductor  
temp. in service  
90 °C