



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)**
- 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

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 K3 SH 0.6/1 (1.2) kV YYY Y Manufacturing number + metric marking

STANDARD

IEC 60332-3-23(B)

Quality insurance according to RCC-E



Halogen free
 IEC 60754-1



Rated Voltage U_o/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

CHARACTERISTICS

Construction characteristics

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

Electrical characteristics

| | |
|--------------------------------------|-----------------|
| Rated Voltage U _o /U (Um) | 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 CORE COPPER

| Reference | Name | Cross section [mm ²] | 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 K3 NA | 50 | Stranded, class 2 | 8.2 | 10.2 | 15.3 | 16.9 | 645 |
| | 74C068 SH P 1X70 Cu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 18.4 | 20.3 | 932 |
| 10176123 | 74C068 SH P 1X95 Cu2 K3 NA | 95 | Stranded, class 2 | 11.35 | 13.55 | 19.9 | 22.0 | 1193 |
| | 74C068 SH P 1x150Cu2 K3 NA | 150 | Stranded, class 2 | 14.17 | 17.0 | 22.1 | 24.4 | 1628 |
| | 74C068 SH P 1X185 Cu2 K3 NA | 185 | Stranded, class 2 | 15.85 | 19.05 | 25.9 | 28.5 | 2184 |
| 10176138 | 74C068 SH P 1X240 Cu2 K3 NA | 240 | Stranded, class 2 | 18.2 | 21.6 | 28.3 | 31.2 | 2766 |
| 10176141 | 74C068 SH P 1X300 Cu2 K3 NA | 300 | Stranded, class 2 | 20.6 | 24.2 | 30.8 | 34.0 | 3389 |
| | 74C068 SH P 1X400 Cu2 K3 NA | 400 | Stranded, class 2 | 23.7 | 27.7 | 34.6 | 38.2 | 4286 |



Halogen free
IEC 60754-1



Rated Voltage U_o/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

1 CORE ALUMINIUM

| Reference | Name | Cross section [mm ²] | 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 K3 NA | 240 | Stranded, class 2 | 18.0 | 21.4 | 28.1 | 31.0 | 1301 |
| | 74C068 SH P 1X300 Alu2 K3 NA | 300 | Stranded, class 2 | 20.5 | 24.1 | 30.7 | 33.9 | 1562 |
| | 74C068 SH P 1X400 Alu2 K3 NA | 400 | Stranded, class 2 | 23.2 | 27.2 | 34.1 | 37.7 | 1936 |
| | 74C068 SH P 1X500 Alu2 K3 NA | 400 | Stranded, class 2 | 26.4 | 30.8 | 37.8 | 41.7 | 2385 |
| | 74C068 SH P 1X630 Alu2 K3 NA | 630 | Stranded, class 2 | 30.3 | 35.1 | 42.2 | 46.5 | 2957 |

2 CORES COPPER

| Reference | Name | Cross section [mm ²] | 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 K3 NA | 1.5 | Stranded, class 2 | 1.55 | 2.95 | 9.8 | 11.0 | 180 |
| 10176102 | 74C068 SH P 2X2.5 Cu2 K3 NA | 2.5 | Stranded, class 2 | 2.0 | 3.4 | 10.7 | 12.0 | 219 |
| | 74C068 SH P 2X4 Cu2 K3 NA | 4 | Stranded, class 2 | 2.55 | 3.95 | 11.8 | 13.2 | 291 |
| 10176096 | 74C068 SH P 2X6 Cu2 K3 NA | 6 | Stranded, class 2 | 2.95 | 4.35 | 12.6 | 14.0 | 305 |
| | 74C068 SH P 2X10 Cu2 K3 NA | 10 | Stranded, class 2 | 3.85 | 5.25 | 14.4 | 15.9 | 428 |
| 10176106 | 74C068 SH P 2X16 Cu2 K3 NA | 16 | Stranded, class 2 | 4.85 | 6.25 | 16.4 | 18.1 | 593 |
| | 74C068 SH P 2X25 Cu2 K3 NA | 25 | Stranded, class 2 | 6.1 | 7.9 | 19.6 | 21.6 | 883 |



Halogen free
IEC 60754-1



Rated Voltage U_o/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

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] |
|-----------|-----------------------------------|----------------------------------|----------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|
| 10176112 | 74C068 SH P 2X35 Cu2 K3 NA | 35 | Stranded, class 2 | 7.1 | 8.9 | 21.5 | 23.8 | 1132 |
| | 74C068 SH P 2X50 Cu2 K3 NA | 50 | Stranded, class 2 | 8.2 | 10.2 | 25.2 | 27.8 | 1550 |
| | 74C068 SH P 2X70 Cu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 28.7 | 31.7 | 2099 |
| | 74C068 SH P 2X95 Cu2 K3 NA | 95 | Stranded, class 2 | 11.35 | 13.55 | 32.1 | 35.4 | 2755 |
| | 74C068 SH P 2X150 Cu2 K3 NA | 150 | Stranded, class 2 | 14.17 | 16.97 | 41.1 | 45.3 | 4414 |
| | 74C068 SH P 2X240 Cu2 K3 NA | 240 | Stranded, class 2 | 18.2 | 21.6 | 50.6 | 55.9 | 6979 |

3 CORES COPPER

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/ Yellow core |
|-----------|-----------------------------------|----------------------------------|----------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|--------------------|
| | 74C068 SH P 3X1.5 Cu2 K3 NA | 1.5 | Stranded, class 2 | 1.55 | 2.95 | 10.3 | 11.5 | 198 | No |
| 10189886 | 74C068 SH P 3G1.5 Cu2 K3 NA | 1.5 | Stranded, class 2 | 1.55 | 2.95 | 10.3 | 11.5 | 198 | Yes |
| 10176101 | 74C068 SH P 3X2.5 Cu2 K3 NA | 2.5 | Stranded, class 2 | 2.0 | 3.4 | 11.2 | 12.6 | 251 | No |
| 10204303 | 74C068 SH P 3G2.5 Cu2 K3 NA | 2.5 | Stranded, class 2 | 2.0 | 3.4 | 11.2 | 12.6 | 251 | Yes |
| | 74C068 SH P 3X4 Cu2 K3 NA | 4 | Stranded, class 2 | 2.55 | 3.95 | 12.4 | 13.8 | 330 | No |



Halogen free
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Rated Voltage U_o/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

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|--------------------------------|----------------------------------|-------------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|-------------------|
| 10176095 | 74C068 SH P 3X6 Cu2 K3 NA | 6 | Stranded, class 2 | 2.95 | 4.35 | 13.3 | 14.8 | 368 | No |
| | 74C068 SH P 3X10 Cu2 K3 NA | 10 | Stranded, class 2 | 3.85 | 5.25 | 15.2 | 16.8 | 527 | No |
| 10176107 | 74C068 SH P 3X16 Cu2 K3 NA | 16 | Stranded, class 2 | 4.85 | 6.25 | 17.4 | 19.2 | 743 | No |
| | 74C068 SH P 3X25 Cu2 K3 NA | 25 | Stranded, class 2 | 6.1 | 7.9 | 20.8 | 23.0 | 1116 | No |
| 10176113 | 74C068 SH P 3X35 Cu2 K3 NA | 35 | Stranded, class 2 | 7.1 | 8.9 | 22.9 | 25.3 | 1447 | No |
| | 74C068 SH P 3X50 Cu2 K3 NA | 50 | Stranded, class 2 | 8.2 | 10.2 | 26.8 | 29.6 | 1977 | No |
| | 74C068 SH P 3X70 Cu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 30.8 | 33.9 | 2716 | No |
| 10176125 | 74C068 SH P 3X95 Cu2 K3 NA | 95 | Stranded, class 2 | 11.35 | 13.55 | 35.2 | 38.8 | 3673 | No |
| | 74C068 SH P 3X120 SC Cu2 K3 NA | 120 | Sector-shaped, stranded | - | - | 36.4 | 40.1 | 4318 | No |
| | 74C068 SH P 3X120 Cu2 K3 NA | 120 | Stranded, class 2 | 12.86 | 15.26 | 39.9 | 44.0 | 4684 | No |
| | 74C068 SH P 3X150 Cu2 K3 NA | 150 | Stranded, class 2 | 14.17 | 16.97 | 43.9 | 48.4 | 5721 | No |
| | 74C068 SH P 3X240 Cu2 K3 NA | 240 | Stranded, class 2 | 18.2 | 21.6 | 54.2 | 59.8 | 9106 | No |



Halogen free
IEC 60754-1



Rated Voltage U_o/U_m (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

3 CORES ALUMINIUM

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|------------------------------|----------------------------------|-------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|-------------------|
| | 74C068 SH P 3X50 Alu2 K3 NA | 50 | Stranded, class 2 | 8.1 | 10.1 | 26.6 | 29.3 | 1115 | No |
| | 74C068 SH P 3X70 Alu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 30.8 | 33.9 | 1498 | No |
| | 74C068 SH P 3X95 Alu2 K3 NA | 95 | Stranded, class 2 | 11.3 | 13.5 | 35.1 | 38.7 | 1980 | No |
| | 74C068 SH P 3X120 Alu2 K3 NA | 120 | Stranded, class 2 | 12.8 | 15.2 | 39.8 | 43.9 | 2547 | No |
| | 74C068 SH P 3X150 Alu2 K3 NA | 150 | Stranded, class 2 | 14.1 | 16.9 | 43.7 | 48.3 | 3052 | No |
| | 74C068 SH P 3X240 Alu2 K3 NA | 240 | Stranded, class 2 | 18.0 | 21.4 | 53.8 | 59.3 | 4649 | No |
| | 74C068 SH P 3X300 Alu2 K3 NA | 300 | Stranded, class 2 | 20.5 | 24.1 | 59.8 | 66.0 | 5750 | No |
| | 74C068 SH P 3X400 Alu2 K3 NA | 400 | Stranded, class 2 | 23.2 | 27.2 | 66.9 | 73.8 | 7210 | No |

4 CORES COPPER

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|-----------------------------|----------------------------------|-------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|-------------------|
| | 74C068 SH P 4X1.5 Cu2 K3 NA | 1.5 | Stranded, class 2 | 1.55 | 2.95 | 11.0 | 12.3 | 228 | No |
| 10176100 | 74C068 SH P 4X2.5 Cu2 K3 NA | 2.5 | Stranded, class 2 | 2.0 | 3.4 | 12.1 | 13.5 | 292 | 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

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|--------------------------------|----------------------------------|-------------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|-------------------|
| | 74C068 SH P 4X4 Cu2 K3 NA | 4 | Stranded, class 2 | 2.55 | 3.95 | 13.5 | 14.9 | 389 | No |
| 10176094 | 74C068 SH P 4X6 Cu2 K3 NA | 6 | Stranded, class 2 | 2.95 | 4.35 | 14.4 | 16.0 | 445 | No |
| | 74C068 SH P 4X10 Cu2 K3 NA | 10 | Stranded, class 2 | 3.85 | 5.25 | 16.6 | 18.3 | 646 | No |
| 10176108 | 74C068 SH P 4X16 Cu2 K3 NA | 16 | Stranded, class 2 | 4.85 | 6.25 | 18.9 | 20.9 | 920 | No |
| | 74C068 SH P 4X25 Cu2 K3 NA | 25 | Stranded, class 2 | 6.1 | 7.9 | 22.8 | 25.2 | 1390 | No |
| 10176114 | 74C068 SH P 4X35 Cu2 K3 NA | 35 | Stranded, class 2 | 7.1 | 8.9 | 25.2 | 27.8 | 1813 | No |
| | 74C068 SH P 4X50 Cu2 K3 NA | 50 | Stranded, class 2 | 8.2 | 10.2 | 29.6 | 32.6 | 2487 | No |
| | 74C068 SH P 4X70 Cu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 34.0 | 37.5 | 3428 | No |
| | 74C068 SH P 4X95 SC Cu2 K3 NA | 95 | Sector-shaped, stranded | - | - | 36.6 | 40.3 | 4458 | No |
| | 74C068 SH P 4X95 Cu2 K3 NA | 95 | Stranded, class 2 | 11.35 | 13.55 | 38.8 | 42.8 | 4637 | No |
| | 74C068 SH P 4X120 SC Cu2 K3 NA | 120 | Sector-shaped, stranded | - | - | 41.1 | 45.4 | 5641 | No |
| | 74C068 SH P 4X120 Cu2 K3 NA | 120 | Stranded, class 2 | 12.86 | 15.26 | 44.2 | 48.7 | 5926 | No |
| | 74C068 SH P 4X150 Cu2 K3 NA | 150 | Stranded, class 2 | 14.17 | 16.97 | 48.4 | 53.4 | 7217 | No |



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Rated Voltage U_o/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

4 CORES ALUMINIUM

| Reference | Name | Cross section [mm ²] | Type of conductor | Conductor diam. [mm] | Diam. over insulation [mm] | Min. outer diam. [mm] | Max. outer diam. [mm] | Approx. weight [kg/km] | Green/Yellow core |
|-----------|------------------------------------|----------------------------------|----------------------|----------------------|----------------------------|-----------------------|-----------------------|------------------------|-------------------|
| | 74C068 SH P 4X70 Alu2 K3 NA | 70 | Stranded, class 2 | 9.8 | 12.0 | 34.0 | 37.5 | 1804 | No |
| | 74C068 SH P 4X95 Alu2 K3 NA | 95 | Stranded, class 2 | 11.3 | 13.5 | 38.7 | 42.7 | 2381 | No |
| | 74C068 SH P 4X120 Alu2 K3 NA | 120 | Stranded, class 2 | 12.8 | 15.2 | 44.0 | 48.6 | 3078 | No |
| | 74C068 SH P 4X240 Alu2 K3 NA | 240 | Stranded, class 2 | 18.0 | 21.4 | 59.5 | 65.7 | 5625 | No |
| | 74C068 SH P 4X300 Alu2 K3 NA | 300 | Stranded, class 2 | 20.5 | 24.1 | 66.3 | 73.1 | 6958 | No |

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

8 x outer diameter
To be doubled during laying operations



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(cat.B)



Smoke density
EN/IEC 61034-2



Operating temp.
-20 ... 60 °C



Max. conductor temp.in
service
90 °C