



CONTACT

Market information
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- Instrumentation cables 300/500(600) V
- CST 74C068
- Zero halogen (SH)
- **Cables installed inside of the containment area (K1)**
- Overall Screen (EG)
- Unarmoured (NA)

STANDARDS

Product IEC 60228

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

APPLICATIONS

These instrumentation cables allow connection to a variety of measurement equipment. Many of them require anti-inductive screen (EMI).

CONSTRUCTION

Design

Conductor:

Flexible bare copper (class 5)

Insulation:

Cross-linked halogen free (SH)

Assembling tape (optional):

Inner sheath:

Low smoke, zero halogen (LSZH)

Overall screen:

Copper wire braid (CWB)

Outer sheath:

Low smoke, zero halogen (LSZH)

Colour: white

Core identification

Black cores printed with white numbers



Halogen free
IEC 60754-1



Rated Voltage U₀/U_m
(Um)
300/500 V



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



Electromagnetic
interference
resistance
Yes



LIFE TIME
60
Yes



Radiation resistant
Yes



LOCA
Yes

Marking
 LYNXEO 279 Nber of pairs or triads & cross section 0.3/0.5 (0.6) kV YYYYY Manufacturing number + metric marking
 Standard
 IEC 60332-3-23(B)

CHARACTERISTICS

Construction characteristics

Conductor material	Plain copper
Type of conductor	Flexible, Classe 5
Insulation	Halogen-free
Inner sheath	Halogen free compound
Screen	Copper Braid
Outer sheath	Halogen free
Halogen free	IEC 60754-1

Electrical characteristics

Rated Voltage U _o /U (Um)	300/500 V
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Usage characteristics

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

SECTION 0.5 MM²

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 1P0.5 Cu5 K1 EG NA	0.9	2.1	5.8	6.46	8.4	9.7	124
74C068 SH M 2P0,5 Cu5 K1 EG NA	0.9	2.1	9.3	10.14	12.2	14.0	220
74C068 SH M 4P0,5 Cu5 K1 EG NA	0.9	2.1	11.8	12.6	14.9	16.9	304
74C068 SH M 8P0,5 Cu5 K1 EG NA	0.9	2.1	15.4	16.4	18.8	21.3	478



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Smoke density
EN/IEC 61034-2



Electro magnetic
interference
resistance
Yes



Life cycle 60years
Yes



Radiation resistant
Yes



LOCA
Yes

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 20P0,5 Cu5 K1 EG NA	0.9	2.1	23.6	24.6	27.2	30.8	958

SECTION 1 MM²

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 1P1 Cu5 K1 EG NA	1.3	2.58	6.6	7.39	9.5	11.0	176
74C068 SH M 1T1 Cu5 K1 EG NA	1.3	2.58	7	7.78	9.9	11.4	196
74C068 SH M 1Q1 Cu5 K1 EG NA	1.3	2.58	7.6	8.45	10.6	12.1	223
10195518 74C068 SH M 2P1 (QE) Cu5 K1 EG NA	1.3	2.58	7.6	8.45	10.6	12.1	223
74C068 SH M 2T1 Cu5 K1 EG NA	1.3	2.58	10.9	11.8	13.9	15.8	389
74C068 SH M 2P1 Cu5 K1 EG NA	1.3	2.58	11.3	12.1	14.4	16.4	342
74C068 SH M 3P1 Cu5 K1 EG NA	1.3	2.58	12.3	13.1	15.4	17.5	382
74C068 SH M 4P1 Cu5 K1 EG NA	1.3	2.58	13.8	14.8	17.1	19.3	480
10194077 74C068 SH M 3T1 Cu5 K1 EG NA	1.3	2.58	13.9	14.9	17.2	19.5	510
74C068 SH M 6P1 Cu5 K1 EG NA	1.3	2.58	16.8	17.8	20.2	22.9	650
74C068 SH M 8P1 Cu5 K1 EG NA	1.3	2.58	18	19.0	21.3	24.2	712



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Smoke density
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Electro magnetic
interference
resistance
Yes



Life cycle 60years
Yes



Radiation resistant
Yes



LOCA
Yes

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 6T1 Cu5 K1 EG NA	1.3	2.58	19.6	20.6	23.1	26.2	837
74C068 SH M 8T1 Cu5 K1 EG NA	1.3	2.58	20.6	21.6	24.1	27.3	920
74C068 SH M 12P1 Cu5 K1 EG NA	1.3	2.58	21.9	22.9	25.3	28.7	959
74C068 SH M 24P1 Cu5 K1 EG NA	1.3	2.58	30.4	31.6	34.3	38.9	1694
74C068 SH M 21T1 Cu5 K1 EG NA	1.3	2.58	32.7	33.9	36.6	41.4	1997

SECTION 1.5 MM²

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 1P1.5 Cu5 K1 EG NA	1.5	2.78	7	7.79	9.9	11.4	196
74C068 SH M 1T1.5 Cu5 K1 EG NA	1.5	2.78	7.4	8.21	10.3	11.9	220
74C068 SH M 1Q1.5 Cu5 K1 EG NA	1.5	2.78	8.1	8.93	11.0	12.7	246
74C068 SH M 2T1.5 Cu5 K1 EG NA	1.5	2.78	11.6	12.5	14.8	16.8	453
74C068 SH M 6P1.5 Cu5 K1 EG NA	1.5	2.78	17.9	18.9	21.4	24.3	742
74C068 SH M 6T1.5 Cu5 K1 EG NA	1.5	2.78	20.9	21.9	24.3	27.6	957
74C068 SH M 8T1.5 Cu5 K1 EG NA	1.5	2.78	22.2	23.2	25.8	29.2	1099



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Smoke density
EN/IEC 61034-2



Electro magnetic
interference
resistance
Yes



Life cycle 60years
Yes



Radiation resistant
Yes



LOCA
Yes

Reference Name	Conductor diam. [mm]	Diam. over insulation [mm]	Diam. over inner sheath [mm]	Diam. over screen [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH M 12P1.5 Cu5 K1 EG NA	1.5	2.78	23.4	24.4	27.0	30.6	1115
74C068 SH M 21T1.5 Cu5 K1 EG NA	1.5	2.78	35.1	36.3	39.3	44.5	2409

PRODUCT LIST

Reference	Country Ref.	Name	Conductor cross-section [mm ²]
☎	-	74C068 SH M 1P0.5 Cu5 K1 EG NA	0.5
☎	-	74C068 SH M 2P0,5 Cu5 K1 EG NA	0.5
☎	-	74C068 SH M 4P0,5 Cu5 K1 EG NA	0.5
☎	-	74C068 SH M 8P0,5 Cu5 K1 EG NA	0.5
☎	-	74C068 SH M 20P0,5 Cu5 K1 EG NA	0.5
☎	-	74C068 SH M 1P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 1Q1 Cu5 K1 EG NA	1
☎ 10195518	-	74C068 SH M 2P1 (QE) Cu5 K1 EG NA	1
☎	-	74C068 SH M 2P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 3P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 4P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 6P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 8P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 12P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 24P1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 1T1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 2T1 Cu5 K1 EG NA	1
☎ 10194077	-	74C068 SH M 3T1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 6T1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 8T1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 21T1 Cu5 K1 EG NA	1
☎	-	74C068 SH M 1P1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 1Q1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 6P1.5 Cu5 K1 EG NA	1.5

☎ = Make to order, ☒ = In stock,



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interference
resistance
Yes



Life cycle 60years
Yes



Radiation resistant
Yes



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Reference	Country Ref.	Name	Conductor cross-section [mm ²]
☎	-	74C068 SH M 12P1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 1T1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 2T1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 6T1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 8T1.5 Cu5 K1 EG NA	1.5
☎	-	74C068 SH M 21T1.5 Cu5 K1 EG NA	1.5

☎ = Make to order, ☒ = In stock,

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

8 x outer diameter
To be doubled during laying operations

2 pair cables (QE) are assembled as a quad (1.3.2.4)

Marking

LYNXEO 279 Nber of pairs or triads & cross-section Cu EG CST 74 C 068 00 K1 SH 0.3/0.5 (0.6)
KV YYYY Manufacturing number + metric marking



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