

CONTACT

Markets and Products Information
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MV Nuclear Power Cable Cu/Alu2 K1

STANDARDS

Product IEC 60228

Test IEC 60332-3-23; NF C32-070/C1

APPLICATION

Lynxéo's medium voltage (MT) single core cables are qualified to CST 74C068 for nuclear power plants. Zero halogen (SH) and unarmoured (NA) these cables are intended to be installed inside of the containment area (K1)

DESIGN

1. Conductor

Stranded round plain copper (Class 2) or aluminium (Class 2)

2. Conductor screen

Semi-conductor

3. Insulation

Ethylene propylene rubber (EPR)

4. Insulation Screen

Semi-conductor

Copper tape

5. Filler

Low smoke, zero halogen (LSZH)

6. Protective sheath

Low smoke, zero halogen (LSZH)

Color: black

Example of marking:

LYNXEO 279 Nb of cores x mm² - Cu/Alu - BTS 74 C 068 - K1 SH - 8.7/15(17.5) kV -
Year - Manufacturing number xxs m



Halogen free
IEC 60754-1



Rated Voltage U₀/U
(Um)
8.7 / 15 (17.5) kV



Operating temp.
-20 ... 60 °C



Smoke density
IEC 61034-2



Fire retardant
NF C 32-070 C1



U.V resistance



Life cycle 60years
Yes



Radiation resistant
Yes

CHARACTERISTICS**Construction characteristics**

Halogen free	IEC 60754-1
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Electrical characteristics

Rated Voltage U _o /U (U _m)	8.7 / 15 (17.5) kV
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Usage characteristics

Operating temperature, range	-20 ... 60 °C
Smoke density	IEC 61034-2
Fire retardant	NF C 32-070 C1
U.V resistance	
Life cycle 60years	Yes
Radiation resistant	Yes
Loss of coolant accident resistant	Yes

DIMENSIONAL CHARACTERISTICS CU

Cross section [mm ²]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
120	23.3	35.0	40.2	2473

DIMENSIONAL CHARACTERISTICS ALU

Cross section [mm ²]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
50	19.8	30.1	34.7	1276