



CONTACT

Market information
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- Medium voltage cables 6/10 (12) kV
- CST 74C068
- Zero halogen (SH)
- **Cables installed inside of the containment area (K1)**
- Unarmoured (NA)

STANDARDS

Product IEC 60228; IEC 60502-2

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

APPLICATIONS

These medium voltage cables are used for medium voltage power supply,

DESIGN

Design

Conductor:

Stranded bare copper or aluminium (class 2)

Screen:

Semi-conductor

Insulation:

Ethylene Propylene Rubber (EPR)

Insulation screen:

Semi-conductor

Copper tape

Assembling sheath:

Halogen free

Outer sheath:

Low smoke, zero halogen (LSZH)

Colour: Black

Core identification



Halogen free
 IEC 60754-1



Rated Voltage Uo/U
 (Um)
 6 / 10 (12) kV



1x: natural
 3x: black - green - brown (by tape under copper screen)



Fire resistant
 NF C 32070 C1;
 IEC 60332-3-23
 (cat. B)



Life cycle 60years
 Yes



Radiation resistant
 Yes



LOCA
 Yes



Max. conductor
 temp. in service
 90°C

LYNX^{EO} 279 Nber of cores & cross-section Cu/Al CST 74 C 068 00 K1 SH 6/10(12)
 kV YYYY Manufacturing number + metric marking

CHARACTERISTICS

Construction characteristics

Type of conductor	Stranded, class 2
Insulation	Halogen-free
Outer sheath	Halogen-free
Halogen free	IEC 60754-1

Electrical characteristics

Rated Voltage U ₀ /U (Um)	6 / 10 (12) 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
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

ALUMINUM CONDUCTOR

Reference Name	Nb. of cores	Cross section [mm ²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH MT 6/10kV 1x400 Alu2 K1 NA	1	400	42.4	46.8	2712
74C068 SH MT 6/10kV .1x630 Alu2 K1 NA	1	630	49.6	54.7	3749

COPPER CONDUCTOR

Reference Name	Nb. of cores	Cross section [mm ²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
74C068 SH MT 6/10kV 1x400 Cu2 K1 NA	1	400	43.2	47.6	5130
74C068 SH MT 6/10kV 3x50 Cu2 K1 NA	3	50	47.3	52.2	3820



Halogen free
IEC 60754-1



Rated Voltage U₀/U (Um)
6 / 10 (12) kV



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



Smoke density
EN/IEC 61034-2



Life cycle 60years
Yes



Radiation resistant
Yes



LOCA
Yes



Max. conductor temp. in service
90 °C

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

- 1 core: 10 x outer diameter
- Multi: 8 x outer diameter
- To be doubled during laying operations



Halogen free
IEC 60754-1



Rated Voltage U_o/U
(Um)
6 / 10 (12) kV



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



Smoke density
EN/IEC 61034-2



Life cycle 60years
Yes



Radiation resistant
Yes



LOCA
Yes



Max. conductor
temp. in service
90 °C