



Reference: 10176331
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CONTACT

Market information
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Control cables CST 74C068 for nuclear power plants, 500V halogen-free. These cables, installed outside the containment area (K3), are unarmed and designed with copper braid shield.

STANDARDS

Produkt IEC 60228

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

APPLICATIONS

These control cables allow connection to a variety of industrial equipment from control room. Many of them require anti-inductive screen (EMI).

CONSTRUCTION

Conductor:

- Stranded (class 2) or flexible (class 5) plain copper

Insulation:

- Zero halogen (SH), cross linked

Assembling:

- Polyester tape (optional)

Overall screen:

- Copper wire braid (CWB) R ≥ 80%

Outer sheath:

- Low smoke, zero halogen (LSZH)

- Colour: Grey

Core identification

Black cores printed with white numbers

Optional: with Y/G core

Marking

LYNXEO 279 Nber of cores & cross-section Cu EG CST 74 C 068 K3 SH 0.3/0.5 (0.6) kV YYYY Manufacturing number + metric marking



Halogenfrei
 IEC 60754-1; IEC 60754-2



Betriebstemp.
 -20 ... 60 °C



Rauchdichte
 EN/IEC 61034-2



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



Elektromagnetisch
 geschirmt
 Ja



UV Beständigkeit
 Ja



Life cycle 60years
 Ja



Max. Betriebstemp.
 am Leiter
 90 °C

CHARACTERISTICS

Konstruktionsmerkmale

Leitermaterial	blank
Leitertype	Stranded, class 2
Isolierung	Halogen-free
Schirm	Copper Braid
Außenmantel	LSZH, raucharm & halogenfrei
Halogenfrei	IEC 60754-1; IEC 60754-2

Abmessungsmerkmale

Leiterquerschnitt	1,5 mm ²
Aderanzahl	3
Leiterdurchmesser	1,5 mm
Durchmesser über Isolierung	2,84 mm
Diameter over screen	6,9 mm
Außendurchmesser Mindestwert	8,7 mm
Maximaler Außendurchmesser	10,1 mm
Nettogewicht ca.	161 kg/km

Elektrische Eigenschaften

Max. Gleichstromwiderstand des Leiters bei 20° C	12,1 Ohm/km
Maximum DC resistance of the conductor at 90°C	15,400 Ohm/km
Reactance at 50 Hz	0,094 Ohm/km
Short Circuit Current 0,3 s Max	0,39 kA
Short Circuit Current 1 s Max	0,21 kA
Impedance at 50 Hz	12,1 Ohm
Spannungsabfall	24,8 V/A.km
Calorific Power	1,3 MJ/m

Anwendungsmerkmale

Betriebstemperatur	-20 ... 60 °C
Rauchdichte	EN/IEC 61034-2
Flammwidrig	NF C 32070 C1; IEC 60332-3-24 (cat.B)
Elektromagnetisch geschirmt	Ja
UV Beständigkeit	Ja
Life cycle 60years	Ja
Max. Betriebstemperatur am Leiter	90 °C
Nuclear Classification	Class 1 E Non LOCA/K3

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

10 x outer diameter
To be doubled during laying operations