

NOX Control Cable • NOX-BKAB-24V-500M

Low smoke zero halogen

Multi-Core, LSZH-Insulation, Collective Screen, LSZH-Sheath

Used for power supply and control signal transmission in mechanical engineering for tooling machinery, for production lines and transport equipment, as well as in industrial installations.

They meet the requirements of the EEC directive concerning electromagnetic compatibility (EMC), and ensure interference-free transmission providing protection against external pulses.

4x1 mm²

Formation	2 Cores
Section	1 mm ²
Conductor	Plain annealed copper wire, 7 strand - Nominal value: 1,3 mm
Insulation	Thermoplastic Low Smoke, Halogen Free - LSZH - Nominal value: 2,0 mm
Colour Code	Black, Red, Blue, Brown

2x0,22 mm²

Formation	2 Cores
Section	0,22 mm ²
Conductor	Plain annealed copper wire, 7 strand - Nominal value: 0,6 mm
Insulation	Thermoplastic Low Smoke, Halogen Free - LSZH - Nominal value: 1,0 mm
Colour Code	Green, White
Individual Screen	N.A.
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire
Wrapping	at least 1 layer of plastic tape 0,023 mm
Inner Sheath	N.A.
Armour	N.A.
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Blue - Dark Blue 5010 - Nominal value: 7,0 mm
Cable Printing	LiH(St)H 2x0,22 mm ² + 4x1,0 mm ² - 300V - VDE 0812 - IEC 60332-3 - EN 50575: 2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING



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Technical Data & Standard References

Fire Propagation	- Test on single cable: IEC 60332-1 - Test on bunched cables: IEC 60332-3
Limiting Oxygen Index (LOI)	(min 37%)
Smoke Density	IEC 61034
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)
Acidity (ph value) and conductivity	Black, Red, Blue, Brown
CPR Class	B2ca - EN 50575:2016
Construction Reference Standard:	VDE 0812
Type of Cable:	Control Cable
Low Voltage Directive	2014/35/UE
Other References:	-IEC 60228 -IEC 60332-1 -IEC 60332-3-24 -NF C 32-020

Electrical & Mechanical Data

Conductor Cross-section	Nom.	0,22 mm ²
DC Resistance per core at 20° C	max Ω/km	93,6
Conductor Cross-section	Nom.	1 mm ²
DC Resistance per core at 20° C	max Ω/km	20,3
Insulation Resistance at 20° C	min MΩ*km	200
Mutual Capacitance	max nF/km	100
Inductance	max mH/km	1
Test Voltage - Core/Core	V	2000
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L/R Ratio	max μH/Ω	25
Operating Voltage	V	300
Temperature Range - During Installation	°C	-5° C up to +50°C
Temperature Range - Fixed Installation	°C	-30° C up to +75°C
Temperature Range - Insulation Operation	°C	-30° C up to +180°C
Min. Bending Radius	mm	8 x cable diameter
Max Pulling Tension	N/mm ²	19
Weight Approx	N/mm ²	88

