

Technical Data

Document Reference
Data Sheet

VDE 0812

CONTROL Cable

For standard applications, low smoke, Halogen Free

EN 50575:2016 CPR Class B2ca

Multi-Pair, LSZH-Insulation, Individual Screen, LSZH-Sheath

LSZH/IAM/NO Screen/LSZH

Application

These cables are 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.

Construction

2x2x0,34 mm²

		Unit	Nominal Value
Formation	2 Pairs		
Section	0,34 mm ²		
Conductor	Plain annealed copper wire, 7 strand	mm	0,7
Insulation	Thermoplastic Low Smoke, Halogen Free - LSZH	mm	1,3
Colour Code	Customized Colors		
Individual Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	Unshielded		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Yellow	mm	6,3
Cable Printing	LiHH -Pimf 2x2x0,34 mm ² - 300/500V - VDE 0812 - IEC 60332-3 - - EN 50575:2014+A1:2016 CPR Class B2ca + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:

- Test on single cable	IEC 60332-1	CPR Class B2ca	EN 50575:2016
- Test on bunched cables	IEC 60332-3	Construction Reference Standard:	VDE 0812
		Type of Cable:	Control Cable
		Low Voltage Directive	2014/35/EU
Limiting Oxygen Index (LOI)	(min 37%)	Other References:	
Smoke Density	IEC 61034	- IEC 60228	
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)	- IEC 60332-1	
Acidity (ph value) and conductivity	IEC 60754-2	- IEC 60332-3-24	
		- NF C 32-020	

Notes

Electrical & Mechanical Data

Conductor Cross-section	Nom.	0,34 mm ²	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	57,2	During Installation	° C	-5° C up to +50° C
Insulation Resistance at 20° C	min MΩ*km	25	Fixed Installation	° C	-30° C up to +75° C
Mutual Capacitance	max nF/km	250	Insulation Operation		-30° C up to +75° C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	65
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	58
L/R Ratio	max μH/Ω	25			
Operating Voltage	V	300/500			

