Technical Data

Document Reference
Data Sheet

VDE 0812

CONTROL Cable
For standard applications, flame retardant.

EN 50575:2016 CPR Class Eca

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

PVC/IAM/NO Screen/PVC

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 mm2		
Conductor	Tinned copper wire, 7 strand	mm	0,7
Insulation	Polyvinyl chloride - PVC	mm	1,6
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	Polyvinyl chloride - PVC - Yellow	mm	7,0
Cable Printing	LiYY-Pimf 2x2x0,34 mm2 - 300/500V - VDE 0812 - IEC 60332-3 - - EN 50575: 2014+A1:2016 CPR Class Eca + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		CPR Class Eca	EN 50575:2016
- Test on single cable	IEC 60332-1	Construction Reference Standard:	VDE 0812
- Test on bunched cables	IEC 60332-3	Type of Cable:	Control Cable
		Low Voltage Directive	2014/35/UE
Limiting Oxygen Index (LOI)	(min 30%)	Other References:	
Smoke Density	IEC 61034	- IEC 60228	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- 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 mm2	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 +80°C
Mutual Capacitance	max nF/km	250	Insulation Operation		-30° C up to +80°C
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2	65
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	70
L/R Ratio	max µH/Ω	25			
Operating Voltage	V	300/500			

RoHS 2002/95/EC