

Modbus Cable

For standard applications, flame retardant.

EN 50575:2016 CPR Class Eca

Single-Pair, PVC-Insulation, Collective Screen, PVC-Sheath

Code: BUS-CABLET

PVC/CAM/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	2x0,5 mm2		Nominal Value
Formation	2 Cores	Unit	
Section	0,5 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	0,9
Insulation	Polyvinyl chloride - PVC	mm	1,5
Colour Code	Black, Red		

Construction	1x2x0,22 mm2		Nominal Value
Formation	1 Pair	Unit	
Section	0,22 mm2		
Conductor	Plain annealed copper wire, 7 strand	mm	0,6
Insulation	Polyvinyl chloride - PVC	mm	1,1
Colour Code	White + Yellow		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape		
Collective Screen	Aluminium / PET tape over tinned copper drain wire		

Construction	2x0.50 mm2 + 1x2x0,22 mm2		Nominal Value
TOTAL Wrapping			
Armour	N.A.		
Outer Sheath	Polyvinyl chloride - PVC - Black	mm	5,5
Cable Printing	RAMCRO COMPOSITE - LiY(St)Y 2X0,50 + 1x2x0,22 mm2 - 300V - VDE 0812 - IEC 60332-1 - EN 50575: 2014+A1:2016 CPR Class Eca + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:			
- Test on single cable	IEC 60332-1	CPR Class Eca	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/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	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	0,22 mm2	Temperature Range:	
DC Resistance per core at 20° C	max Ω/km	93,6	During Installation	° C -5° C up to +50° C
Conductor Cross-section	Nom.	0,5 mm2	Fixed Installation	° C -30° C up to +80° C
DC Resistance per core at 20° C	max Ω/km	37,5	Insulation Operation	° C -30° C up to +80° C
Insulation Resistance at 20° C	min MΩ*km	25	Min. Bending Radius	mm 8 x cable diameter
Mutual Capacitance	max nF/km	250	Max Pulling Tension	N 19
Inductance	max mH/km	1	Weight Approx	kg/km 48
Test Voltage - Core/Core	V	2000		
Test Voltage - Core/Screen	V	2000	Impedenza Nominale	10KHz 20KHz 50KHz
L/R Ratio	max µH/Ω	25		180Ω 140Ω 105Ω
Operating Voltage	V	300		