

Technical Data

EQB 9841

Document Reference

20/01887

- DATA LAN RS-485 Cable

For standard applications, flame retardant.

EN 50575:2016 CPR Class Cca

Single pair, PE-Insulation, Double Screened, LSZH/FRNC-Sheath

MAR0108HBEDX-T-BA

Application

Balanced digital circuit. Medium speed fieldbus interfaces. Maximum transmission speed 35 Mbit/second (normal use 1 or 0.5 Mbit/sec). Max. transmission distance is 1200 metres, 32 nodes per bus. Cables used have mainly 24AWG conductors, one twisted pair or multi-pair and impedance of 120 Ohm.


Construction

		Unit	Nominal Value
Formation	1 Pair		
Section	24 AWG		
Conductor	Tinned copper wire, 7 strand	mm	0,6
Insulation	Polyethylene - PE	mm	1,8
Colour Code	White/Blue, Blue/White		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	Aluminium / PETP + Tinned Copper Braid		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Grey	mm	5,6
Cable Printing	DATA LAN CABLE - RS-485 - 1PR 24AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - MAR0108HBEDX-T-BA "PROD.WEEK/18" + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		CPR Class	Cca	EN 50575:2016
- Test on single cable	IEC 60332-1			
- Test on bunched cables	IEC 60332-3			
Limiting Oxygen Index (LOI)	(min 37%)	Type of Cable:		DATA LAN RS-485 Cable
Smoke Density	IEC 61034	Low Voltage Directive		2014/35/UE
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)	Other References:		
Acidity (ph value) and conductivity	IEC 60754-2			
Sunlight resistance	UL 1581 section 1200			
Notes				

Electrical & Mechanical Data

Conductor Cross-section	Nom.	24 AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	91	During Operation	° C -30°C up to 80°C
Insulation Resistance at 20° C	min	MΩ*km	1000	During Installation	° C -30°C up to 80°C
Nominal Mutual Capacitance	max	pF/m	41		
Inductance	max	mH/km	1	Min. Bending Radius	mm 8 x cable diameter
Test Voltage - Core/Core	V		2000	Max Pulling Tension	N/mm2 21
Test Voltage - Core/Screen	V		2000	Weight Approx	kg/km 40
Operating Voltage	V		300	Put up length	mt 305



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