Technical Data

Document Reference
Data Sheet

R1318

RAMCRO - DATA LAN RS-485 Cable
For standard applications, flame retardant.

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

MAR0108HXEDX-T-RB

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	Polyetilene - 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) - Purple RAL 4005	mm	5,6
Cable Printing	RAMCRO ITALY R1318 DATA LAN CABLE - RS-485 - 1PR 24AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - MAR0108HXEDX-T-RB "PROD.WEEK/18" + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:	
- Test on single cable	IEC 60332-1
- Test on bunched cables	IEC 60332-3
Smoke Density	IEC 61034
Amount of halogen acc. to IEC 60754-1 & EN 50267-1	ZERO
Acidity (ph value) and conductivity	IEC 60754-2
Sunlight resistance	UL 1581 section 1200
Notes	

Type of Cable:	DATA LAN RS-485 Cable
Low Voltage Directive	2014/35/UE
Other References:	

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	5000	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	39
Operating Voltage	V	300	Put up length	mt	305

RoHS 2002/95/EC

Printing errors excepted. Subject to alterations.

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