



Technical Data

Document Reference

Data Sheet

R1319

RAMCRO - DATA LAN RS-485 Cable

For standard applications, flame retardant.

Multipair, PE-Insulation, Double Screened, LSZH/FRNC-Sheath

MAR0208HXEDX-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

Formation	2 Pairs	Unit	Nominal Value
Section	24 AWG		
Conductor	Tinned copper wire, 7 strand	mm	0,6
Insulation	Polyethylene - PE	mm	1,8
Colour Code	White/Blue, Blue/White, White/Orange, Orange/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	8,2
Cable Printing	RAMCRO ITALY R1319 DATA LAN CABLE - RS-485 - 2PR 24AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - MAR0208HXEDX-T-RB "PROD.WEEK/18" + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		Type of Cable:	DATA LAN RS-485 Cable
- Test on single cable	IEC 60332-1	Low Voltage Directive	2014/35/UE
- Test on bunched cables	IEC 60332-3	Other References:	
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			

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	42				
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter	
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2	41	
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	63	
Operating Voltage	V	300	Put up length	mt	305	



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