

RAMCRO - DATA LAN - MODBUS 105 Ω Cable

For standard applications, flame retardant.

Multipair, LSZH/FRNC-Insulation, Individual Screened, LSZH/FRNC-Sheath

MAP0207HXEDX-T-RB

Application

Modbus is a serial communications protocol published by Modicon in 1979 for use with its programmable logic controllers (PLCs). Simple and robust, it has since become one of the factor standard communications protocols in the industry.


Construction

		Unit	Nominal Value
Formation	2 Pairs		
Section	22 AWG		
Conductor	Tinned copper wire, 7 strand	mm	0,7
Insulation	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC)	mm	1,2
Colour Code	Black, Red, Black, White		
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	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	6,2
Cable Printing	RAMCRO MADE IN ITALY R1281 DATA LAN CABLE 2PR 22AWG IND. SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - MAP0207HXEDX-T-RB "PROD.WEEK/18" + BATCH + METER		

Technical Data & Standard References

Fire Propagation:		Type of Cable:	DATA LAN - MODBUS 105 Ω 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	- IEC 61158-2, Type A	
Amount of halogen acc. to IEC 60754-1 & EN 50267-1	ZERO	- EN 50288-7	
Acidity (ph value) and conductivity	IEC 60754-2	- BS 6234	
Sunlight resistance	UL 1581 section 1200	- BS50363	
Notes		- IEC 60332-1	
		- IEC 60332-3-24	
		- UL 1581	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	22 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	57,4	During Operation	° C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	25	During Installation	° C	-30°C up to 80°C
Nominal Mutual Capacitance	max pF/m	150	Min. Bending Radius	mm	8 x cable diameter
Inductance	max mH/km	1	Max Pulling Tension	N/mm2	63
Test Voltage - Core/Core	V	2000	Weight Approx	kg/km	46
Test Voltage - Core/Screen	V	2000	Put up length	mt	305
Impedance	Ω	105			
Operating Voltage	V	300			

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