

### RAMCRO - BMS-PVC-TC Cable

For standard applications, flame retardant.

Multipair, PE-Insulation, Individual Screened, PVC-Sheath

MAP0207HBADX-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	Polyetilene - PE	mm	1,1
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	N.A.		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Polyvinyl chloride - PVC - Grey RAL 7001	mm	5,8
Cable Printing	RAMCRO MADE IN ITALY R1196 DATA LAN CABLE 1PR 16AWG IND. SCREENED 300 V 75 C IEC 60332-1/UL 1581 - MAP0207HBADX-T-RB - "PROD.WEEK/18" + BATCH + METER MARKING		

#### Technical Data & Standard References

Fire Propagation:		Type of Cable:	BMS-PVC-TC Cable
- Test on single cable	IEC 60332-1	Low Voltage Directive	2014/35/UE
- Test on bunched cables	IEC 60332-3	Other References:	
Limiting Oxygen Index (LOI)	(min 30%)	- IEC 61158-2, Type A	
Smoke Density	IEC 61034	- EN 50288-7	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- BS 6234	
Acidity (ph value) and conductivity	IEC 60754-2	- BS50363	
Sunlight resistance	UL 1581 section 1200	- IEC 60332-1	
Notes		- 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	5000	During Installation	° C -30°C up to 80°C
Nominal Mutual Capacitance	max	pF/m	100		
Inductance	max	mH/km	1	Min. Bending Radius	mm 8 x cable diameter
Test Voltage - Core/Core	V	2000		Max Pulling Tension	N/mm2 63
Test Voltage - Core/Screen	V	2000		Weight Approx	kg/km 40
Impedance	Ω	105			
Operating Voltage	V	300	Put up length	mt	305

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