



Technical Data

Document Reference

23/00000

R1302

RAMCRO - BMS-PVC-TC UnScreened Cable

For standard applications, flame retardant.

Single pair, PVC-Insulation, UnScreened, PVC-Sheath

MSE0152HBAAN-T-RB

Application

M-BUS (Meter-Bus) is a european standard (EN 13757-2) physical and link layer, EN 13757-3 application layer) for the remote reading of gas or electricity meters. M-Bus is also suitable for other types of consumption meters.

Construction

		Unit	Nominal Value
Formation	1 Pair		
Section	12 AWG		
Conductor	Tinned copper wire, Multistrand	mm	2,3
Insulation	Polyvinyl chloride - PVC	mm	4
Colour Code	Black, White		
Individual Screen	N.A.		
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	9,6
Cable Printing	RAMCRO ITALY R1302 - 1PR 12AWG UNSCREENED 600 V 75 C IEC 60332-1/UL 1581 - MSE0152HBAAN-T-RB - "PROD.WEEK/23" + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		
- Test on single cable	IEC 60332-1	
- Test on bunched cables	IEC 60332-3	
Limiting Oxygen Index (LOI)	(min 30%)	Type of Cable: BMS-PVC-TC UnScreened Cable
Smoke Density	IEC 61034	Low Voltage Directive 2014/35/UE
Amount of halogen acid gas	IEC 60754-1 (max 15%)	Other References:
Acidity (ph value) and conductivity	IEC 60754-2	
Sunlight resistance	UL 1581 section 1200	
Notes		

Electrical & Mechanical Data

Conductor Cross-section	Nom.	12 AWG	Temperature Range:		° C	-30°C up to 80°C
DC Resistance per core at 20° C	max	Ω/km	5,9	During Operation		
Insulation Resistance at 20° C	min	MΩ*km	5000	During Installation	° C	-30°C up to 80°C
Nominal Mutual Capacitance	max	pF/m	115			
Inductance	max	mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000		Max Pulling Tension	N/mm2	157
Test Voltage - Core/Screen	V	N.A.		Weight Approx	kg/km	92
Operating Voltage	V	600	Put up length	mt		305

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