



Technical Data

Document Reference

Data Sheet

R1198

RAMCRO - DATA LAN - M-BUS Cable

For standard applications, flame retardant.

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

MSE0103HBAAN-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

Formation	1 Pair	Unit	Nominal Value
Section	16 AWG		
Conductor	Tinned copper wire, Multistrand	mm	1,6
Insulation	Polyethylene - PE	mm	2,5
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	6,6
Cable Printing	RAMCRO ITALY R1198 DATA LAN CABLE 1PR 16AWG UNSCREENED 300 V 75 C IEC 60332-1/UL 1581 - MSE0103HBAAN-T-RB - "PROD.WEEK/18" + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		Type of Cable:	DATA LAN - M-BUS 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%)		
Smoke Density	IEC 61034		
Amount of halogen acid gas	IEC 60754-1 (max 15%)		
Acidity (ph value) and conductivity	IEC 60754-2		
Sunlight resistance	UL 1581 section 1200		
Notes			

Electrical & Mechanical Data

Conductor Cross-section	Nom.	16 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω /km	15,8	During Operation	° C	-30°C up to 80°C
Insulation Resistance at 20° C	min $M\Omega$ *km	5000	During Installation	° C	-30°C up to 80°C
Nominal Mutual Capacitance	max pF/m	50			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2	132
Test Voltage - Core/Screen	V	N.A.	Weight Approx	kg/km	66
Operating Voltage	V	300	Put up length	mt	305



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