

RAMCRO - DATA LAN - M-BUS Cable

For standard applications, flame retardant.

Single pair, PE-Insulation, Collective Screened, PVC-Sheath

MAS0105HBADN-T-RB

Application

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

Construction

		Unit	Nominal Value
Formation	1 Pair		
Section	18 AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,1
Insulation	Polyethylene - PE	mm	2
Colour Code	Black, White		
Individual Screen	N.A.		
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	Polyvinyl chloride - PVC - Grey RAL 7001	mm	5,5
Cable Printing	RAMCRO ITALY R1193 DATA LAN CABLE 1PR 18AWG SCREENED 300 V 75 C IEC 60332-1/UL 1581 - MAS0105HBAAN-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.	18 AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	During Operation	° C	-30°C up to 80°C
Insulation Resistance at 20° C	min	MΩ*km	During Installation	° C	-30°C up to 80°C
Nominal Mutual Capacitance	max	pF/m			
Inductance	max	mH/km	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2	78
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	46
Operating Voltage	V	300	Put up length	mt	305