



# Technical Data

Document Reference  
Data Sheet

R1271

## RAMCRO - BMS-HFFR-TC Cable For standard applications, flame retardant.

Single pair, LSZH/FRNC-Insulation, UnScreened, LSZH/FRNC-Sheath

MSE0105HXEDN-T-RB

### Application

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumentation.

### Construction

		Unit	Nominal Value
Formation	1 Pair		
Section	18 AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,1
Insulation	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC)	mm	1,5
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	Thermoplastic Low Smoke, Halogen Free - LSZH - Purple RAL 4005	mm	3,9
Cable Printing	RAMCRO ITALY R1271 DATA LAN CABLE - M-BUS - 1PR 18 AWG UNSCREENED LSZH (FRNC) 300 V 75 C IEC 60332-3-24 -MSE0105HXEDN-T-RB - 'PROD.WEEK/18' + BATCH + METER MARKING		

### Technical Data & Standard References

Fire Propagation:		Type of Cable:	BMS-HFFR-TC 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		
Amount of halogen acid gas	ZERO		
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	23,2	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	80		
Inductance	max	mH/km	1	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	N.A.		Weight Approx	kg/km 26
Operating Voltage	V	300	Put up length	mt	305

Issued by: Davide



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Prepared by RAMCRO Tech

Via Marzorati, 15 - 20014 Nerviano - Milan - Italy / www.ramcro.it

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