Technical Data

Document Reference
21/01904

R1703

RAMCRO - BMS-HFFR-BC-Screened Cable
For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened, LSZH/FRNC-Sheath

SAS0301HXEDX-R8

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	3 Cores		
Section	14 AWG		
Conductor	Plain annealed copper wire, Multistrand	mm	1,8
Insulation	Polyolephine	mm	2,3
Colour Code	Black, Red, 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	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005	mm	6,2
Cable Printing	RAMCRO ITALY R1703 AUDIO CONTROL & INSTRUMENTATION CABLE 3C 14AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0301HXEDX-R8 - "PROD.WEEK/20" + 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 37%)
Smoke Density	IEC 61034
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)
Acidity (ph value) and conductivity	IEC 60754-2
Sunlight resistance	UL 1581 section 1200
Notes	

Type of Cable:	BMS-HFFR-BC-Screened Cable
Low Voltage Directive	2014/35/UE
Other References:	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	14 AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	9,36	During Operation	° C	-30°C up to 80°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	° C	-30°C up to 80°C
Nominal Mutual Capacitance	max pF/m	185			
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2	289
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	87
Operating Voltage	V	300	Put up length	mt	305