



Technical Data

Document Reference

25/00120

R1707

RAMCRO - BMS-HFFR-BC-Screened Cable

For standard applications, flame retardant.

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

SAS0601HXEDX-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	6 Cores		
Section	14 AWG		
Conductor	Plain annealed copper wire, Multistrand	mm	1.8
Insulation	Polyolefine	mm	2.3
Colour Code	Black, Red, White, Green, Brown, Blue		
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	Polyolefine - Purple RAL 4005	mm	8.2
Cable Printing	RAMCRO ITALY R1707 AUDIO CONTROL & INSTRUMENTATION CABLE 6C 14AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0601HXEDX-RB - "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	25	During Installation		° C	-30°C up to 80°C
Nominal Mutual Capacitance	max pF/m	178				
Inductance	max mH/km	1	Min. Bending Radius	mm	8 x cable diameter	
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	482	
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	137	
Operating Voltage	V	300	Put up length	mt	305	



Issued by: RAMCRO S.p.A.

Prepared by RAMCRO Tech

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

Date of issue:

7/7/2026 0:00