



# Technical Data

UL 1277

Document Reference

15/02994R2

## RAMCRO Cable

For standard applications, flame retardant.

Multi-Core, PVC HT 105-Insulation, Collective Screen, PVC-Sheath

SAS0903HBACX-T-UL

PVC HT 105/CAM/PVC

### Application

These cables are designed to connect electronic instrumentation, analog and digital signal circuits. This cable does not spread flame to the top of the tray in the Vertical-Tray Flame Test in UL 1685.


### Construction

		Unit	Nominal Value
Formation	9 Cores		
Section	16AWG		
Conductor	Tinned copper wire, 7 strand		
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	1,4
Colour Code	Customized Colors	mm	2,3
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	10,7
Cable Printing	RAMCRO Italy Type TC - 9 C 16AWG CU CL2/PVC/CAM/PVC 600V MIL UL 1581 105°C month+year + BATCH + METER MARKING		

### Technical Data & Standard References

Fire Propagation:		Construction Reference Standard:	UL 1277
- Test on single cable	IEC 60332-1	Type of Cable:	Instrumentation Cable
- Test on bunched cables	IEC 60332-3	Low Voltage Directive	2006/95/EC
- Vertical Tray Flame Test	UL1685	Other References:	
Limiting Oxygen Index (LOI)	(min 30%)	- NEC code, sec. 725 PLTC,	
Flammability temperature (FT)		- NEC code, sec. 727 ITC,	
Amount of halogen acid gas	(max 15%)	- UL 1685	
Sunlight resistance	UL 1581 section 1200	- ASTM D 1239	
Notes		- NF C 32-020	
		- IRAM IAP	

### Electrical & Mechanical Data

Conductor Cross-section	Nom.	16AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	14,2	During Operation	° C -30° C up to +105°C
Insulation Resistance at 20° C	min	MΩ*km	25	During Installation	° C -5° C up to +50°C
Mutual Capacitance	max	nF/km	250		
Inductance	max	mH/km	1	Min. Bending Radius	mm 10 x cable diameter
Test Voltage - Core/Core	V	2000		Weight Approx	kg/km 202
Test Voltage - Core/Screen	V	2000			
L/R Ratio	max	μH/Ω	25		
Operating Voltage	V	600			

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