



Technical Data

Document Reference

2094-15

AWG

RAMCROil - INSTRUMENTATION Cable

For standard applications, flame retardant.

Multi-Core, PVC-Insulation, Without Screen, PVC-Sheath

SSS2503HBAAN-AWG

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	25 Cores		
Section	16AWG		
Conductor	plain annealed copper wire, multistrand	mm	1,4
Insulation	polyvinyl chloride - PVC	mm	2,4
Colour Code	White, Black + Numbered Tapes		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	Unshielded		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	polyvinyl chloride - PVC - Grey RAL 7001	mm	17,2
Cable Printing	0		

Technical Data & Standard References

Fire Propagation:		Construction Reference Standard:	AWG
- 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)	ASTM D 2863 (min 30%)	- NEC code, sec. 725 PLTC,	
Flammability temperature (FT)		- NEC code, sec. 727 ITC,	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- UL 1685	
Sunlight resistance	UL 1581 section 1200	- ASTM D 1239	
Notes		- NF C 32-020	
		- IRAM IAP	
		- IEC 79-14	

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 +80° C
Insulation Resistance at 20° C	min $M\Omega$ *km	25	During Installation	° C -5° C up to +50° C
Mutual Capacitance	max nF/km	140		
Inductance	max mH/km	1	Min. Bending Radius	mm 6 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2 1379
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km 584
L/R Ratio	max $\mu H/\Omega$	25		
Operating Voltage	V	300/500		



Issued by: sabrina

Date of issue:

Prepared by RAMCRO Tech

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

26/06/2015 00:00

Creator: LDG

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