

RAMCROil - INSTRUMENTATION Cable

For standard applications, flame retardant, UV resistant

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

MAS3703HBACX-T-UL

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

Formation	1 triads	Unit	Nominal Value
Section	16AWG		
Conductor	Tinned copper wire, 7 strands	mm	1,41
Insulation	Hi Temperature polyvinyl chloride - PVC HT 105°C	mm	2,30
Colour Code	black - white - red		
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	Hi Temperature polyvinyl chloride - PVC HT 105°C - Grey RAL 7001	mm	6,60
Cable Printing	RAMCRO Italy Type TC - 1x3x16AWG CU cl.2/PVC/CAM/PVC 600V MIL UL1581 105°C month/15 + batch n° + meter marking		

Technical Data & Standard References

Fire Propagation:		Construction Reference Standard:
- Test on single cable	IEC 60332-1	Type of Cable:
- Test on bunched cables	IEC 60332-3	Other References:
- Vertical Tray Flame Test	UL1685	- NEC code, sec. 725 PLTC,
Limiting Oxygen Index (LOI)	ASTM D 2863 (min 30%)	- NEC code, sec. 727 ITC,
Flammability temperature (FT)		- UL 1685
Amount of halogen acid gas	IEC 60754-10	- ASTM D 1239
Sunlight resistance	UL 1581 section 1200	- NF C 32-020
Notes		- 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	During Operation	° C -30° C up to +105°C
Insulation Resistance at 20° C	min	MΩ*km	During Installation	° C -5° C up to +50°C
Mutual Capacitance	max	nF/km	Min. Bending Radius	mm 6 x cable diameter
Inductance	max	mH/km		
Test Voltage - Core/Core	V	2000		
Test Voltage - Core/Screen	V	2000		
L/R Ratio	max	μH/Ω		
Operating Voltage	V	600		

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Date of issue:

29/09/2014 00:00

Form 1