

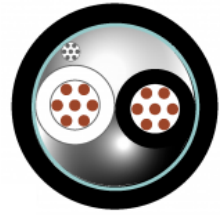


Technical Data

Document Reference

17/02153R1

UL 13



RAMCROii - INSTRUMENTATION Cable

For standard applications, flame retardant, Hydrocarbon & UV Res.

Single-Pair, PVC HT 105-Insulation, Collective Screen, Hi-Performance PVC-Sheath

MAS0105HEOCN-UL13

PVC HT 105/CAM/Hi-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

1x2x18AWG

		Unit	Nominal Value
Formation	1 Pair		
Section	18AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	1,2
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,0
Colour Code	White, Black		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm + comm core AWG22 orange		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	High Performance Polyvinyl chloride - Hi-PVC - Black	mm	6,2
Cable Printing	RAMCRO S.p.A. – (UL) Listed E345186 Type PLTC - 1 pr 18 - Shielded - 105°C + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:			
- Test on single cable	IEC 60332-1	Construction Reference Standard:	UL 13
- Test on bunched cables	IEC 60332-3	Type of Cable:	PLTC Cable
- Vertical Tray Flame Test	UL1685	Low Voltage Directive	2014/35/UE
Limiting Oxygen Index (LOI)	(min 30%)	Other References:	
Smoke Density	IEC 61034	- NEC code, sec. 725 PLTC,	
Amount of halogen acid gas	IEC 60754-1 (max 1,3%)	- NEC code, sec. 727 ITC,	
Acidity (ph value) and conductivity	IEC 60754-2	- 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.	18AWG	Temperature Range:	
DC Resistance per core at 20° C	max Ω /km	21,4	During Operation	° C -30° C up to +105°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	250	Min. Bending Radius	mm 10 x cable diameter
Inductance	max mH/km	1	Max Pulling Tension	N/mm2 82
Test Voltage - Core/Core	V	2000	Weight Approx	kg/km 67
Test Voltage - Core/Screen	V	2000		
L/R Ratio	max $\mu H/\Omega$	40		
Operating Voltage	V	300		

Issued by: SABRINA_PMS

Prepared by RAMCRO Tech

Creator: LDG

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

Transfer to third parties only under authorization by Ramcro S.p.A.

Printing errors excepted. Subject to alterations.



Date of issue:

15/12/2017 00:00

Form 1