

Technical Data

UL 13



UL Listed

PLTC

Document Reference

18/02254

RAMCROil - INSTRUMENTATION Cable

For standard applications, low smoke, Halogen Free

Single-Pair, XLPE-Insulation, Collective Screen, LSZH-Sheath

Code: MAS0101HEEXN-UL13

XLPE/CAM/LSZH

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 1x2x14AWG

		Unit	Nominal Value
Formation	1 Pair		
Section	14AWG		
Conductor	Plain annealed copper wire, 7 strand	mm	1,8
Insulation	Cross Linked Polyethylene - XLPE	mm	2,6
Colour Code	White, Black		
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	Thermoplastic Low Smoke, Halogen Free - LSZH - Black	mm	7,4
Cable Printing	RAMCRO S.p.A. - (UL) Listed E345186 Type PLTC - 1 pr 14 - Shielded - 75°C + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		Construction Reference Standard:	UL 13
- Test on single cable	IEC 60332-1	Type of Cable:	PLTC Cable
- Test on bunched cables	IEC 60332-3	Low Voltage Directive	2014/35/UE
- Vertical Tray Flame Test	UL1685	Other References:	
Limiting Oxygen Index (LOI)	(min 37%)	- NEC code, sec. 725 PLTC,	
Smoke Density	IEC 61034	- NEC code, sec. 727 ITC,	
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)	- UL 1685	
Acidity (ph value) and conductivity	IEC 60754-2	- ASTM D 1239	
Notes		- NF C 32-020	
		- IRAM IAP	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	14AWG	Temperature Range:	
DC Resistance per core at 20° C	max Ω/km	8,6	During Operation	° C -30° C up to +90° C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	° C -5° C up to +50° C
Mutual Capacitance	max nF/km	150		
Inductance	max mH/km	1	Min. Bending Radius	mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm2 208
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km 92
L/R Ratio	max μH/Ω	60		
Operating Voltage	V	300		

Issued by: STEFANO_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:

22/06/2018 00:00

NEW Form 1