



Technical Data

Document Reference

18/02254R2



TC CABLE

RAMCROil - INSTRUMENTATION Cable

For standard applications, flame retardant, Oil resistant

Multi-Core, PVC HT 105-Insulation, Collective Screen, PVC Oil Res.-Sheath

Code: SAS0701HEPCX-T-UL

PVC HT 105/CAM/PVC Oil Res.

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 7C14AWG

		Unit	Nominal Value
Formation	7 Cores		
Section	14AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,8
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,8
Colour Code	Orange,Red,White,Black,Blu,Green,Brown as Draw		
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, Oil Resistant - Black	mm	10,6
Cable Printing	RAMCRO Italy Type TC - 7 x 14AWG CU CL2/PVC/CAM/PVC 600V MIL UL 1581 105°C month+year + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		
- Test on single cable	IEC 60332-1	
- Test on bunched cables	IEC 60332-3	
- Vertical Tray Flame Test	UL1685	
Limiting Oxygen Index (LOI)	(min 30%)	
Smoke Density	IEC 61034	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	
Acidity (ph value) and conductivity	IEC 60754-2	
Notes		
Construction Reference Standard:		TC CABLE
Type of Cable:		
Low Voltage Directive		2014/35/UE
Other References:		
	- NEC code, sec. 725 PLTC,	
	- NEC code, sec. 727 ITC,	
	- UL 1685	
	- ASTM D 1239	
	- 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
Insulation Resistance at 20° C	min	MΩ*km	25	During Installation
Mutual Capacitance	max	nF/km	250	
Inductance	max	mH/km	1	Min. Bending Radius
Test Voltage - Core/Core	V	2000		mm
Test Voltage - Core/Screen	V	2000		8 x cable diameter
L/R Ratio	max	μH/Ω	60	Max Pulling Tension
Operating Voltage	V	600		N/mm2
				727
				Weight Approx
				kg/km
				284

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