



Technical Data

Document Reference

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UL 1277

RAMCRO CABLE

For standard applications, flame retardant HT105°C.

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

SAS0407HBACX-T-UL

PVC HT 105/CAM/PVC HT 105

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	4 Cores		
Section	22AWG		
Conductor	Tinned copper wire, 7 strand	mm	0,7
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	1,3
Colour Code	Customized Colors		
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 Polyvinylchloride - PVC HT 105°C - Grey RAL 7001	mm	5,2
Cable Printing	RAMCRO ITALY Type TC 4x22AWG CU CL2/PVC/CAM/PVC 600 V MIL UL 1581 105°C MOUNTH/YEAR + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:			
- Test on single cable	IEC 60332-1	Construction Reference Standard:	UL 1277
- Test on bunched cables	IEC 60332-3	Type of Cable:	TC CABLE
- Vertical Tray Flame Test	UL1685	Low Voltage Directive	2014/35/UE
Limiting Oxygen Index (LOI)	(min 30%)	Other References:	
Smoke Density	IEC 61034	- UL 1685	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- ASTM D 1239	
Acidity (ph value) and conductivity	IEC 60754-2	- NF C 32-020	
Sunlight resistance	UL 1581 section 1200	- IRAN IAP	
Notes		- IEC 79-14	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	22AWG	Temperature Range:	
DC Resistance per core at 20° C	max Ω /km	55,4	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		
Test Voltage - Core/Core	V	2000		
Test Voltage - Core/Screen	V	2000		
L/R Ratio	max $\mu H/\Omega$	25		
Operating Voltage	V	600		



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