



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

SAS1203HBACX-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	12 Cores		
Section	16AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,4
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,3
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	11,7
Cable Printing	RAMCRO ITALY Type TC 12x16AWG CU CL2/PVC/CAM/PVC 600 V MIL UL 1581 105°C MOUNTH/YEAR + BATCH + METER MARKING		

Technical Data & Standard References

Fire Propagation:		Construction Reference Standard:	UL 1277
- Test on single cable	IEC 60332-1	Type of Cable:	TC 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 30%)	- UL 1685	
Smoke Density	IEC 61034	- ASTM D 1239	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- NF C 32-020	
Acidity (ph value) and conductivity	IEC 60754-2	- IRAN IAP	
Sunlight resistance	UL 1581 section 1200	- IEC 79-14	
Notes			

Electrical & Mechanical Data

Conductor Cross-section	Nom.	16AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	14,2	During Operation	° C -30° C up to +105°C
Insulation Resistance at 20° C	min	MΩ*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	μH/Ω	40		
Operating Voltage	V	600			



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