



# 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

SAS1805HBACX-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	18 Cores		
Section	18AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,1
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,0
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	12,5
Cable Printing	RAMCRO ITALY Type TC 18x18AWG 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.	18AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	22,2	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			



Issued by: STEFANO\_PMS

Date of issue:

Prepared by RAMCRO Tech

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17/01/2017 00:00

Creator: LDG

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