

Ramcro Cable

For standard applications, flame retardant, Oil resistant

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

SAS0905HBACX-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		9x18AWG	
Formation	9 Cores	Unit	Nominal Value
Section	18AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,2
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,0
Colour Code	Black, White, Red, Green, Brown, Blue, Orange, Yellow, Purple		
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 - Grey RAL 7001	mm	9,6
Cable Printing	RAMCRO ITALY TYPE TC - 9x18AWG CU CL2/PVC/CAM/PVC 600V MIL UL 1581 105°C MONTH/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 Cables
- 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%)	- NEC code, sec. 725 PLTC,	
Smoke Density	IEC 61034	- NEC code, sec. 727 ITC,	
Amount of halogen acid gas	IEC 60754-1 (max 15%)	- UL 1685	
Acidity (ph value) and conductivity	IEC 60754-2	- ASTM D 1239	
Sunlight resistance	UL 1581 section 1200	- NF C 32-020	
Notes		- IRAM IAP	

Electrical & Mechanical Data

Conductor Cross-section	Nom.	18AWG	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	21,4	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		
Inductance	max	mH/km	1	Min. Bending Radius	mm 10 x cable diameter
Test Voltage - Core/Core	V	2000		Max Pulling Tension	N/mm2 367
Test Voltage - Core/Screen	V	2000		Weight Approx	kg/km 150
L/R Ratio	max	μH/Ω	40		
Operating Voltage	V	600			



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Form 1

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