

Ramcro Cable

For standard applications, flame retardant, Oil resistant

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

SAS2403HBACX-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		24x16AWG	
Formation	24 Cores	Unit	Nominal Value
Section	16AWG		
Conductor	Tinned copper wire, 7 strand	mm	1,4
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	2,3
Colour Code	Black, White, Red, Green, Brown, Blue, Orange, Yellow, Purple, Grey, Pink, Light Brown, Black+White Ring, White+Black Ring, Red+Black Ring, Green+Black Ring, Brown+Black Ring, Blue+Black Ring, Orange+Black Ring, Yellow+Black Ring, Purple+Black Ring, Grey+Black Ring, Pink+Black Ring, Light Brown+Black Ring		
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	16,3
Cable Printing	RAMCRO ITALY TYPE TC - 24x16AWG 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

Sunlight resistance UL 1581 section 1200

Notes

Construction Reference Standard:

UL 1277

Type of Cable:

TC Cables


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.	16AWG	Temperature Range:		
DC Resistance per core at 20° C	max Ω /km	13,5	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			
Inductance	max mH/km	1	Min. Bending Radius	mm	10 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N/mm ²	1457
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	476
L/R Ratio	max μ H/ Ω	40			
Operating Voltage	V	600			

Issued by: Davide



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Prepared by RAMCRO Tech

Via Marzorati, 15 - 20014 Nerviano - Milan - Italy / www.ramcro.it

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Form 1

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