

### Ramcro Cable

For standard applications, flame retardant, Oil resistant

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

SAS1607HBACX-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		16x22AWG	
Formation	16 Cores	Unit	Nominal Value
Section	22AWG		
Conductor	Tinned copper wire, 7 strand	mm	0,7
Insulation	Hi Temperature Polyvinylchloride - PVC HT 105°C	mm	1,3
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		
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	8,6
Cable Printing	RAMCRO ITALY TYPE TC - 16x22AWG 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.	22AWG	Temperature Range:	
DC Resistance per core at 20° C	max Ω/km	54,1	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	Max Pulling Tension	N/mm2 260
Test Voltage - Core/Core	V	2000	Weight Approx	kg/km 118
Test Voltage - Core/Screen	V	2000		
L/R Ratio	max μH/Ω	25		
Operating Voltage	V	600		

