Technical Data

Document Reference
Data Sheet

TC Cables

Ramcro Cables
For standard applications, flame retardant.

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

SAS2405HBACX-T-UL — PVC HT 105/CAM/PVC

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	24 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 Color		
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	14,6
Cable Printing	RAMCRO Italy Type TC - 24 C 18AWG 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	Type of Cable:	TC Cables
- Test on bunched cables	IEC 60332-3	Low Voltage Directive	2014/35/UE
- 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			

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	Weight Approx	kg/km	353
Test Voltage - Core/Screen	V	2000			
L/R Ratio	max µH/Ω	25			
Operating Voltage	V	600			