Technical Data

Document Reference
15/02994R2

UL 1277

RAMCRO Cable
For standard applications, flame retardant.

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

SAS0305HBACX-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	3 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.		
Outher Sheath	Polyvinyl chloride - PVC - Grey RAL 7001	mm	6,2
Cable Printing	RAMCRO Italy Type TC - 3 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
- Test on bunched cables	IEC 60332-3
- Vertical Tray Flame Test	UL1685
Limiting Oxygen Index (LOI)	(min 30%)
Flammability temperature (FT)	
Amount of halogen acid gas	(max 15%)
Sunlight resistance	UL 1581 section 1200
Notes	

Construction Reference Standard:	UL 1277
Type of Cable:	Instrumentation Cable
Low Voltage Directive	2006/95/EC
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.	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			
Inductance	max mH/km	1	Min. Bending Radius	mm	10 x cable diameter
Test Voltage - Core/Core	V	2000	Weight Approx	kg/km	64
Test Voltage - Core/Screen	V	2000			
L/R Ratio	max µH/Ω	25			
Operating Voltage	V	600			