

Technical Data

Document Reference



UL 13

UL Listed

PLTC

RAMCROII - INSTRUMENTATION Cable For standard applications, low smoke, Halogen Free

Single-Triad, XLPE-Insulation, Collective Screen, LSZH-Sheath

Code: MAS3706HEEXO-UL13 XLPE/CAM/LSZH

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	1x3x20AWG					
						Nomina
Formation	1 Triad			Unit	Value	
Section	20AWG					
Conductor	Plain annealed copper wire, 7 strand				mm	0,9
Insulation	Cross Linked Polyethylene - XLPE			mm	1,7	
Colour Code	White, Black, Red					
Individual Screen	N.A.					
Wrapping	at least 1 layer of plastic tape					
Collective Screen	Aluminium / PET tape over tinned copper drain wire					
Inner Sheath	N.A.					
Armour	N.A.					
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Black				mm	6,0
Cable Printing	RAMCRO S.p.A (UL) Listed E345186 Type PLTC - 1 tr 20 - Shielded -					
	75°C + BATCH + METER MARKING					
Technical Data & Standard Referen	ces					
Fire Propagation:						
Test on single cable	IEC 60332-1					
- Test on bunched cables	IEC 60332-3		Construction Reference Standard:		UL 13	
			Type of Cable:		PLTC Cable	
Vertical Tray Flame Test	UL1685		Low Voltage Directive		2014/35/UE	
imiting Oxygen Index (LOI)	(min 37%)		Other References:			
Smoke Density	IEC 61034		- NEC code, sec. 725 PLTC, - NEC code, sec. 727 ITC, - UL 1685 - ASTM D 1239			
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)					
Acidity (ph value) and conductivity	IEC 60754-2					
Note: -			- NF C 32-020			
Notes			- IRAM IAP			
Electrical & Mechanical Data						
Conductor Cross-section	Nom.	20AWG	Tomporatura Banga	0+		
DC Resistance per core at 20° C	max Ω/km	34,6	Temperature Range: During Installation	#- °c	-5° C	to +50°C
nsulation Resistance at 20° C	min MΩ*km	1000	Fixed Installation	• C		to +50°C
Mutual Capacitance	max nF/km	115	Insulation Operation	°C		o to +90°C
nductance	max mH/km	1	Min. Bending Radius	mm		e diameter
Fest Voltage - Core/Core	V	2000	Max Pulling Tension	N		77
Test Voltage - Core/Screen	V	2000		kg/km		7 <i>7</i> 56
_/R Ratio	=	25	Weight Approx	kg/kiii		50
,	max μH/Ω V					
Operating Voltage	V	300				



Date of issue: