



# Technical Data

## Document Reference

18/02274R1

# UL-1424



FPLR

EN 50575:2016 CPR Class Cca

## RAMCRO - Power-Limited Fire-Alarm Cable For standard applications, low smoke, Halogen Free

Multi-Core, PE-Insulation, Without Screen, LSZH-Sheath

SSR0203HFEDH-UL-FA

PE/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 1666.

Construction	2C18AWG	Unit	Nominal Value
Formation	2 Cores		
Section	18AWG		
Conductor	Plain annealed copper wire, solid	mm	1,0
Insulation	Polyetilene - PE	mm	1,4
Colour Code	Black, Red		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	Unshielded		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Red	mm	4,0
Cable Printing	RAMCRO S.p.A. Type FPLR - 2 C 18AWG - Unshielded - LS0H FR - 75°C - IEC 60332-1 - UL 1581 - SSR0203HFEDH-UL-FA + BATCH + METER MARKING		

### Technical Data & Standard References

Fire Propagation:			
- Test on single cable	IEC 60332-1	CPR Class Cca	EN 50575:2016
- Test on bunched cables	IEC 60332-3	Construction Reference Standard:	UL-1424
		Type of Cable:	Fire Alarm Cable
- Vertical Tray Flame Test	UL1666	Low Voltage Directive	2014/35/UE
Limiting Oxygen Index (LOI)	(min 37%)	Other References:	
Smoke Density	IEC 61034	- NEC code, sec. FPLR,	
Amount of halogen acid gas	IEC 60754-1 (max 0,5%)	- UL 1666	
Acidity (ph value) and conductivity	IEC 60754-2	- ASTM D 1239	
		- NF C 32-020	
		- IRAM IAP	
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
Insulation Resistance at 20° C	min	MΩ*km	1000	During Installation
Mutual Capacitance	max	nF/km	150	
Inductance	max	mH/km	1	Min. Bending Radius
Test Voltage - Core/Core	V	3000		mm
Test Voltage - Core/Screen	V	2000		10 x cable diameter
L/R Ratio	max	μH/Ω	40	Max Pulling Tension
Operating Voltage	V	300		N/mm2
				kg/km
				36



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