

Product Name

RAMFireCRO-F3 - Fire Survival Cable, Fire Resistant*
For Fire & Gas applications, low smoke, Halogen Free

Product Code

SAR0214HFESL-F3PH120

Multi-Core, Silicon Rubber-Insulation, Collective
Screen, PO-Sheath



APPLICATION

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

CONSTRUCTION

2x1,5 mm²

Formation	2 Cores	Unit	Nominal Value
Section	1,5 mm ²		
Conductor	Plain annealed copper wire, solid	mm	1,4
Insulation	Special mix Silicon Rubber	mm	3,0
Colour Code	Blue, Brown		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Red	mm	8,5
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO -F3 STANDARD FIRE SUN - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629- 1:2015 STANDARD 60 - BS 6387:2013 CWZ - 2x1.5 sqmm + E - <Year> H - LPCB 568c/02 - MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
Test on bunched cables:	IEC 60332-3
Fire Performance:	IEC 60331-21
Fire Resistant Test:	EN 50200 PH120 + Annex E
Limiting Oxygen Index (LOI):	(min 37%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2

Construction Reference Standard: BS7629

Type of Cable: Fire Resistant Cable

Low Voltage Directive: 2014/35/UE

Other References:	- BS 6387 - Cat. C-W-Z
	- BS EN 50200 PH120
	- BS EN 50267-2-1
	- BS 6234
	- BS 6360
	- BS 7655 1.1
	- BS 7655 6.1
	- IEC 60331-21

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm ²	Temperature Range:
DC Resistance per core at 20° C	max Ω/km	12.1	During Operation °C -5° C up to +50° C
Insulation Resistance at 20° C	min MΩ*km	200	Fixed Installation °C -40° C up to +75° C
Mutual Capacitance	max nF/km	150	Insulation Operation °C -40° C up to +180° C
Inductance	max mH/km	1	Min. Bending Radius mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension N 143
Test Voltage - Core/Screen	V	2000	Weight Approx kg/km 119
L/R Ratio	max μH/Ω	40	
Operating Voltage	V	300/500	

Product Name

RAMFireCRO-F3 - Fire Survival Cable, Fire Resistant*
For Fire & Gas applications, low smoke, Halogen Free

Product Code

SAR0218HFESL-F3PH120

Multi-Core, Silicon Rubber-Insulation, Collective
Screen, PO-Sheath



APPLICATION

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

CONSTRUCTION

2x1,5 mm²

Formation	2 Cores	Unit	Nominal Value
Section	2.5 mm ²		
Conductor	Plain annealed copper wire, solid	mm	1,7
Insulation	Special mix Silicon Rubber	mm	3,5
Colour Code	Blue, Brown		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Red	mm	9,6
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO -F3 STANDARD FIRE SUN - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629- 1:2015 STANDARD 60 - BS 6387:2013 CWZ - 2x2.5 sqmm + E - <Year> H - LPCB 568c/02 - MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
Test on bunched cables:	IEC 60332-3
Fire Performance:	IEC 60331-21
Fire Resistant Test:	EN 50200 PH120 + Annex E
Limiting Oxygen Index (LOI):	(min 37%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2

Construction Reference Standard: BS7629

Type of Cable: Fire Resistant Cable

Low Voltage Directive: 2014/35/UE

Other References:	- BS 6387 - Cat. C-W-Z
	- BS EN 50200 PH120
	- BS EN 50267-2-1
	- BS 6234
	- BS 6360
	- BS 7655 1.1
	- BS 7655 6.1
	- IEC 60331-21

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	2.5 mm ²	Temperature Range:
DC Resistance per core at 20° C	max Ω/km	7.4	During Operation °C -5° C up to +50° C
Insulation Resistance at 20° C	min MΩ*km	200	Fixed Installation °C -40° C up to +75° C
Mutual Capacitance	max nF/km	150	Insulation Operation °C -40° C up to +180° C
Inductance	max mH/km	1	Min. Bending Radius mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension N 238
Test Voltage - Core/Screen	V	2000	Weight Approx kg/km 164
L/R Ratio	max μH/Ω	40	
Operating Voltage	V	300/500	

Product Name

RAMFireCRO-F3 - Fire Survival Cable, Fire Resistant*
For Fire & Gas applications, low smoke, Halogen Free

Product Code

SAS0215HFESL-F3PH120

Multi-Core, Silicon Rubber-Insulation, Collective
Screen, PO-Sheath



APPLICATION

These special multicore cables are used for fire resistant and circuit integrity, and essentially to prevent life from smoke and noxious fumes, and where sensitive equipment may be damaged by acid forming gases.

CONSTRUCTION

2x1,5 mm2

Formation	2 Cores	Unit	Nominal Value
Section	1.5 mm2		
Conductor	Plain annealed copper wire, solid	mm	1,5
Insulation	Special mix Silicon Rubber	mm	3,1
Colour Code	Blue, Brown		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Red	mm	8,8
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO -F3 STANDARD FIRE SUN - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629- 1:2015 STANDARD 60 - BS 6387:2013 CWZ - 2x1.5 sqmm + E - <Year> H - LPCB 568c/02 - MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
Test on bunched cables:	IEC 60332-3
Fire Performance:	IEC 60331-21
Fire Resistant Test:	EN 50200 PH120 + Annex E
Limiting Oxygen Index (LOI):	(min 37%)
Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 1,3%)
Acidity (ph value) and conductivity:	IEC 60754-2

Construction Reference Standard: BS7629

Type of Cable: Fire Resistant Cable

Low Voltage Directive: 2014/35/UE

Other References:	- BS 6387 - Cat. C-W-Z
	- BS EN 50200 PH120
	- BS EN 50267-2-1
	- BS 6234
	- BS 6360
	- BS 7655 1.1
	- BS 7655 6.1
	- IEC 60331-21

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm2	Temperature Range:
DC Resistance per core at 20° C	max Ω/km	12.1	During Operation °C -5° C up to +50° C
Insulation Resistance at 20° C	min MΩ*km	200	Fixed Installation °C -40° C up to +75° C
Mutual Capacitance	max nF/km	150	Insulation Operation °C -40° C up to +180° C
Inductance	max mH/km	1	Min. Bending Radius mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension N 143
Test Voltage - Core/Screen	V	2000	Weight Approx kg/km 124
L/R Ratio	max μH/Ω	40	
Operating Voltage	V	300/500	

Product Name

RAMFireCRO-F3 - Fire Survival Cable, Fire Resistant*
For Fire & Gas applications, low smoke, Halogen Free

Product Code

SAS0225HFESL-F3PH120

Multi-Core, Silicon Rubber-Insulation, Collective
Screen, PO-Sheath



APPLICATION

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CONSTRUCTION

2x1,5 mm²

Formation	2 Cores	Unit	Nominal Value
Section	2.5 mm ²		
Conductor	Plain annealed copper wire, solid	mm	2,0
Insulation	Special mix Silicon Rubber	mm	3,7
Colour Code	Blue, Brown		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - Red	mm	10,0
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO -F3 STANDARD FIRE SUN - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629- 1:2015 STANDARD 60 - BS 6387:2013 CWZ - 2x2.5 sqmm + E - <Year> H - LPCB 568c/02 - MADE IN ITALY <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

Test on single cable:	IEC 60332-1
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Mutual Capacitance	max nF/km	150	Insulation Operation °C -40° C up to +180° C
Inductance	max mH/km	1	Min. Bending Radius mm 8 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension N 236
Test Voltage - Core/Screen	V	2000	Weight Approx kg/km 171
L/R Ratio	max μH/Ω	60	
Operating Voltage	V	300/500	