

Product Name

**RAMFireCRO-F3 - Fire Resistant Cable,
Fire Resistant**

Product Code

SAR0214HCEOL-F3EN120

Multi-Core, Mica-XLPE+Silicon Rubber-Insulation,
Collective Screen, LSZH-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	Mica Tape + Cross Linked Polyethylene - XLPE + Silicon Rubber	mm	3,8
Colour Code	Blue, Brown		
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.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - White	mm	9,5
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO-F3 FIRE STAR - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629-1:2015 ENHANCED 120 - BS 6387:2013 CWZ - EN 60332-3- 24:2009 - 2x1,5 sqmm + E - <year> H - LPCB 568j/01 - 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:	BS8434-2/EN50200 PH120
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

For enhanced fire resistant cables in fire detection and fire alarm systems building:	BS 5839-1: 2003 (clause 26.2e Enhanced)
Construction Reference Standard:	BS 7629-1:2015
Type of Cable:	Fire Resistant Cable
Reference Standard for Circuit Integrity:	- BS 5266-1:2016 - BS 8519
Other References:	- BS 8434-2 - BS 6234 - BS 6387 C-W-Z - BS 6360 - BS EN 50200 - BS 7655 1.1 - BS EN 50267-2-1 - BS 7655 6.1

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm ²
DC Resistance per core at 20° C	max Ω/km	12.3
Insulation Resistance at 20° C	min MΩ*km	1000
Mutual Capacitance	max nF/km	150
Inductance	max mH/km	1
Test Voltage - Core/Core	V	2000
Test Voltage - Core/Screen	V	2000
L/R Ratio	max μH/Ω	40
Operating Voltage	V	300/500

Temperature Range:

During Operation	°C	-30° C up to +90° C
During Installation	°C	-5° C up to +50° C

Min. Bending Radius	mm	10 x cable diameter
Max Pulling Tension	N	143
Weight Approx	kg/km	131

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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	Mica Tape + Cross Linked Polyethylene - XLPE + Silicon Rubber	mm	3,8
Colour Code	Blue, Brown		
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.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - White	mm	9,5
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO-F3 FIRE STAR - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629-1:2015 ENHANCED 120 - BS 6387:2013 CWZ - EN 60332-3- 24:2009 - 2x1,5 sqmm + E - <year> H - LPCB 568j/01 - MADE IN ITALY - <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:		For enhanced fire resistant cables in fire	BS 5839-1: 2003
Test on single cable:	IEC 60332-1	detection and fire alarm systems building:	(clause 26.2e Enhanced)
Test on bunched cables:	IEC 60332-3		
Fire Performance:	IEC 60331-21	Construction Reference Standard:	BS 7629-1:2015
Fire Resistant Test:	BS8434-2/EN50200 PH120	Type of Cable:	Fire Resistant Cable
Limiting Oxygen Index (LOI):	(min 37%)	Reference Standard for Circuit Integrity:	- BS 5266-1:2016
Smoke Density:	IEC 61034		- BS 8519
Amount of halogen acid gas:	IEC 60754-1 (max 0,5%)	Other References:	- BS 8434-2 - BS 6234
Acidity (ph value) and conductivity:	IEC 60754-2		- BS 6387 C-W-Z - BS 6360
			- BS EN 50200 - BS 7655 1.1
			- BS EN 50267-2-1 - BS 7655 6.1

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	1.5 mm ²	Temperature Range:	
DC Resistance per core at 20° C	max Ω/km	12.3	During Operation	°C -30° C up to +90° C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C -5° C up to +50° C
Mutual Capacitance	max nF/km	150		
Inductance	max mH/km	1	Min. Bending Radius	mm 10 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N 143
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km 131
L/R Ratio	max μH/Ω	40		
Operating Voltage	V	300/500		

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CONSTRUCTION

3x2,5 mm²

Formation	3 Cores	Unit	Nominal Value
Section	2,5 mm ²		
Conductor	Plain annealed copper wire, solid	mm	1,7
Insulation	Mica Tape + Cross Linked Polyetilene - XLPE + Silicon Rubber	mm	4,1
Colour Code	Blue, Brown		
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.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - White	mm	11,1
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO-F3 FIRE STAR - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629-1:2015 ENHANCED 120 - BS 6387:2013 CWZ - EN 60332-3- 24:2009 - 3x1,5 sqmm + E - <year> H - LPCB 568j/01 - MADE IN ITALY - <batch>		

TECHNICAL DATA & STANDARD REFERENCES

Fire Propagation:

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Smoke Density:	IEC 61034
Amount of halogen acid gas:	IEC 60754-1 (max 0,5%)
Acidity (ph value) and conductivity:	IEC 60754-2

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Construction Reference Standard:	BS 7629-1:2015
Type of Cable:	Fire Resistant Cable
Reference Standard for Circuit Integrity:	- BS 5266-1:2016 - BS 8519
Other References:	- BS 8434-2 - BS 6234 - BS 6387 C-W-Z - BS 6360 - BS EN 50200 - BS 7655 1.1 - BS EN 50267-2-1 - BS 7655 6.1

ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	2,5 mm ²
DC Resistance per core at 20° C	max Ω/km	7,6
Insulation Resistance at 20° C	min MΩ*km	1000
Mutual Capacitance	max nF/km	150
Inductance	max mH/km	1
Test Voltage - Core/Core	V	2000
Test Voltage - Core/Screen	V	2000
L/R Ratio	max μH/Ω	60
Operating Voltage	V	300/500

Temperature Range:

During Operation	°C	-30° C up to +90° C
During Installation	°C	-5° C up to +50° C

Min. Bending Radius	mm	10 x cable diameter
Max Pulling Tension	N	356
Weight Approx	kg/km	226

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CONSTRUCTION

2x2,5 mm²

Formation	2 Cores	Unit	Nominal Value
Section	2,5 mm ²		
Conductor	Plain annealed copper wire, solid	mm	1,7
Insulation	Mica Tape + Cross Linked Polyethylene - XLPE + Silicon Rubber	mm	4,1
Colour Code	Blue, Brown		
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.		
Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - White	mm	10,5
Cable Printing	<meterMarking> RAMCRO ITALY - RAMFIRECRO-F3 FIRE STAR - FIRE RESISTANT ELECTRIC CABLE - LSZH - 300/500V - BS 7629-1:2015 ENHANCED 120 - BS 6387:2013 CWZ - EN 60332-3- 24:2009 - 2x1,5 sqmm + E - <year> H - LPCB 568j/01 - MADE IN ITALY - <batch>		

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ELECTRICAL & MECHANICAL DATA

Conductor Cross-section	Nom.	2,5 mm ²	Temperature Range:		
DC Resistance per core at 20° C	max Ω/km	7,6	During Operation	°C	-30° C up to +90°C
Insulation Resistance at 20° C	min MΩ*km	1000	During Installation	°C	-5° C up to +50°C
Mutual Capacitance	max nF/km	150			
Inductance	max mH/km	1	Min. Bending Radius	mm	10 x cable diameter
Test Voltage - Core/Core	V	2000	Max Pulling Tension	N	238
Test Voltage - Core/Screen	V	2000	Weight Approx	kg/km	176
L/R Ratio	max μH/Ω	60			
Operating Voltage	V	300/500			

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Inner Sheath	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH - White	mm	10,5
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