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**CERTIFICATE OF APPROVAL**  
**No. ME0206**

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This is to certify that the referenced products of

**SAMI S.p.a**  
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have been assessed against the requirements of the *warringtonfire – mideast certification scheme* and are approved for use within the scope of any test and/or assessment report(s) referenced.

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**SAMI FIRE RESISTANT CABLES**

USRse 300 Rating 300/500V  
2x1+E 2x1.5+E 2x2.5+E  
3x1+E 3x1.5+E 3x2.5+E  
4x1+E 4x1.5+E 4x2.5+E

RSRse 300 Rating 300/500V  
2x4.0+E 3x4.0+E 4x4.0+E



**2 x 1.5 + E**



**3 x 2.5 + E**



**4 x 4.0 + E**

The SAMI FIRE RESISTANT CABLE family is intended for all applications where it is necessary for power to be supplied to equipment, emergency lighting, fire alarm systems and other necessary applications in the event of fire. This Approval has been prepared from test data summarised below and derived from the test reports referenced below. Full details of the product, justification for the conclusions given, along with validity statements are given in those reports and ANNEX 1 to this Approval.

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**FIRE RESISTANT CABLES**

Test Reports	Standard	Additional testing conducted
WF Report No: 190677	BS 50200 Annex E	When tested in accordance with EN: 1994: Section D.4 the cable meets the criteria for Category Z.
WF Report No: 190678	BS 50200 Annex E	When tested in accordance with BS 6387: 1994: Section D.4 the cable meets the criteria for Category Z.
WF Report No: 190679	BS 50200 Annex E	When tested in accordance with BS 6387: 1994: Section D.4 the cable meets the criteria for Category Z.

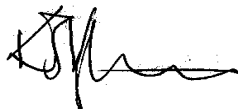
This Approval defines the technical requirements, via testing and appraisal for the certification of multicore electric cables intended for all applications where it is necessary for power to be supplied to equipment, emergency lighting, fire alarm systems and other necessary applications in the event of fire.

- have an insulation of rated voltage 300/500 V
- provide resistance to fire (circuit integrity), including with mechanical shock and with water, as measured by performance in a standard test(s)
- emit limited amounts of smoke and corrosive gases as measured by standard tests

Approval will apply to materials within a family based upon a given material and specification type. When a company manufactures materials from different families a separate Certificate will be required for each family.

Approval is awarded on the basis of initial type testing as listed above, initial inspection and ongoing surveillance of factory production control, and ongoing compliance with the scheme requirements including labelling of the product as specified. The currency of the certification may be verified at [www.warringtonfire.net/mideast](http://www.warringtonfire.net/mideast).

**Signed for and on behalf of Warrington Certification**



Sir Ken Knight  
Chairman - Management Council

Issued: 5<sup>th</sup> February 2010  
Valid to: 4<sup>th</sup> February 2015

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**ANNEX 1**

Product reference	"SAMIFIRE fire resistant cables" Electrical screened cables 300/500 V, having low emission of smoke and corrosive gases when affected by fire (reference standard BS7629-1:2008)	
Cable marking	USRse 300 2x1.0+E 3x1.0+E 4x1.0+E 2x1.5+E 3x1.5 +E 4x1.5 +E 2x2.5+E 3x2.5+E 4x2.5+E RSRse 300 2x4.0+E 3x4.0+E 4x4.0+E	
Cable function	For use where power is required to be maintained in the event of fire eg for use in emergency lighting, fire detection, fire alarm systems etc.	
Number of cores x core size	2x1+E 2x1.5+E 2x2.5+E 2x4+E 3x1+E 3x1.5+E 3x2.5+E 3x4+E 4x1+E 4x1.5+E 4x2.5+E 4x4+E	
Voltage rating	300/500 V	
Diameter	from 7,1 to 14,3 mm	
Weight per unit length	from 81,5 to 318 g/m	
Conductors	Product reference	ASTM B3
	Generic type	Plain annealed copper
	Total cross-sectional area of each conductor	from 1 to 4 mm <sup>2</sup>
	Weight per unit length of each conductor	from 8,8 to 35 g/m
	Number of strands per conductor	1 or 7
Conductor insulation	Product reference	<b>See note 3</b>
	Generic type	Silicon rubber
	Colour	Brown, blue, grey, black
	Thickness	from 0,6 mm. to 0,8 mm.
	Density	1,23 g/cm <sup>3</sup>
	Generic type of flame retardant	Mineral fillers
	Amount of flame retardant	Max 15%
Mylar tape	Product reference	Polyester film
	Generic type	Polyester
	Colour	transparent
	Thickness	0.023 mm
	Weight per unit area	32 g/m <sup>2</sup>
Drain wire	Product reference	ASTM B33
	Generic type	Tinned annealed copper
	Cross-sectional area	Same as conductors
	Weight per unit length	from 8,8 to 35 g/m
	Number of strands	1 or 7

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**ANNEX 1 - Continued**

Foil tape	Product reference	Aluminium -polyester
	Generic type	Aluminium-mylar
	Colour	Any colour
	Thickness	0.034mm
	Weight per unit area	55g/m <sup>2</sup>
	Flame retardant details	See Note 2
Outer sheath	Generic type	LTZH compound
	Colour	"Red" or nay colour requested by the customer
	Thickness	0.90mm or 1.20mm
	Density	1.51g/cm <sup>3</sup>
	Trade name of flame retardant	See Note 1 below
	Generic type of flame retardant	Aluminum Hydroxide
	Amount of flame retardant	Maximum 60%
Brief description of manufacturing process		Conductors are insulated with silicon rubber by extrusion, cores are laid up by cabling machine with polyester tape and drain wire, screened with aluminium/polyester tape and then sheathed with LSZH compound by extrusion

Note 1. The sponsor of the test was unable to provide this information.

Note 2. The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product / component.

Note 3. The sponsor has also provided information relating to the specification for the manufacture of these cables. This is held on Confidential File at Warrington Certification Ltd.