



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2417	20-Apr-2010	Number 36	Issue date 21-Apr-2026	30-Apr-2027

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Product designation

FireSense, FR Series, fire rated cables

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

FireSense Pty Ltd
18-20 Brookhollow Avenue, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

FireSense Pty Ltd
18-20 Brookhollow Avenue, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

FireSense Pty Ltd
18-20 Brookhollow Avenue, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Conformance criteria and evaluation

The FireSense, FR Series, fire rated cables has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian/New Zealand Standard AS/NZS 3013:2005, 'Electrical installations - Classification of the fire and mechanical performance of wiring system elements'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Reference should be made to the relevant test report to determine applicability to a proposed installation

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh
Executive Officer – ActivFire Scheme



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Producer's description

FireSense, FR Series, fire rated cables have been specifically designed for use with Australian Fire Alarm and EWIS and have been independently evaluated for conformity by Warringtonfire / Jensen Hughes Fire Testing to the requirements of AS/NZS 3013 for both fire and mechanical cable properties.

All FireSense cables are certified 2-hour fire rated.

The cable's stranded copper conductors and firm insulation material also allows for neat placement on cable trays and allows ease of stripping and termination.

It is the manufacturer's recommendation that FireSense stainless steel cable ties be used for fixing cables to tray every 1.0 meter when mounted horizontal and every 0.6 meters when mounted vertically.

Technical specification

The following details are a representative extract of the technical specification for the FireSense, FR Series, fire rated cables and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Part number	Num. of cores	Cross-section	Overall diameter	Classification	Certificate of test/Assessment ident.
FR-0.75-2C	2	0.75 mm ²	9.8 mm	WS51W	FAS 240027 R1.6
FR-0.75-2CW	2	0.75 mm ²	9.8 mm	WS51W	SFC 2331900a.1 (PC: Type 1)
FR-0.75-3C	3	0.75 mm ²	10.8 mm	WS51W	FAS 240027 R1.6
FR-0.75-10C	10	0.75 mm ²	22.0-24.0 mm	WS52W	FAS 240027 R1.6
FR-0.75-2CS	2	0.75 mm ²	10.3 mm	WS51W	FAS 240027 R1.6
FR-0.75-6CS	6	0.75 mm ²	15.5 mm	WS51W	FAS 240027 R1.6
FR-0.75-8CS	8	0.75 mm ²	15.8 mm	WS51W	FAS 240027 R1.6
FR-0.75-4CS	4	0.75 mm ²	13.5 mm	WS51W	FAS 240027 R1.6
FR-0.75-4CS-BK	4	0.75 mm ²	13.5 mm	WS51W	FAS 240027 R1.6
FR-1.00-2C	2	1.00 mm ²	10.0 mm	WS51W	FAS 240027 R1.6
FR-1.00-2CW	2	1.00 mm ²	10.0 mm	WS51W	24560a-SFC5.0 (PC: Type 5)
FR-1.50-2C	2	1.50 mm ²	10.3 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CW	2	1.50 mm ²	10.3 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CS	2	1.50 mm ²	10.5 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CSW	2	1.50 mm ²	10.5 mm	WS52W	FAS 240027 R1.6
FR-1.50-2C+SWA	2	1.50 mm ²	14.8 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CW+SWA	2	1.50 mm ²	14.8 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CS + SWA	2	1.50 mm ²	15.0 mm	WS52W	FAS 240027 R1.6
FR-1.50-2CSW+SWA	2	1.50 mm ²	15.0 mm	WS52W	FAS 240027 R1.6
FR-4.00-2C	2	4.00 mm ²	13.7 mm	WS52W	FAS 240027 R1.6
FR-6.00-2C	2	6.00 mm ²	16.2 mm	WS52W	FAS 240027 R1.6
FR-2.50-2C	2	2.50 mm ²	11.8 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CS	2	2.50 mm ²	12.0 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CSW	2	2.50 mm ²	11.8 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CW	2	2.50 mm ²	11.8 mm	WS52W	FAS 240027 R1.6
FR-2.50-2C+SWA	2	2.50 mm ²	16.5 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CW+SWA	2	2.50 mm ²	16.5 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CS+SWA	2	2.50 mm ²	16.7 mm	WS52W	FAS 240027 R1.6
FR-2.50-2CSW+SWA	2	2.50 mm ²	16.7 mm	WS52W	FAS 240027 R1.6
FR-1.50-3C	3	1.50 mm ²	10.0 mm	WS52W	FAS 240027 R1.6
FR-1.50-4C	4	1.50 mm ²	12.0 mm	WS52W	FAS 240027 R1.6
FR-1.50-4CS	4	1.50 mm ²	13.8 mm	WS52W	FAS 240027 R1.6
FR-1.50-6C	6	1.50 mm ²	16.0 mm	WS52W	FAS 240027 R1.6

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FR-1.50-10C	10	1.50 mm ²	18.8 mm	WS52W	FAS 240027 R1.6
FR-1.5-3C+E	3 + E	1.50 mm ²	12.5 mm	WS52W	FAS 240027 R1.6
FR-2.5-3C+E	3 + E	2.50 mm ²	14.5 mm	WS52W	FAS 240027 R1.6
FR-4.0-3C+E	3 + E	4.00 mm ²	16.1 mm	WS52W	FAS 240027 R1.6
FR-6.0-3C+E	3 + E	6.00 mm ²	18.2 mm	WS52W	FAS 240027 R1.6
FR-2.5-2C+E	2 + E	2.50 mm ²	13.4 mm	WS52W	FAS 240027 R1.6
FR-4.0-2C+E	2 + E	4.00 mm ²	14.9 mm	WS52W	FAS 240027 R1.6
FR-6.0-2C+E	2 + E	6.00 mm ²	17.5 mm	WS52W	FAS 240027 R1.6
FR-1.5-3C+ES	3 + ES	1.50 mm ²	14.5 mm	WS52W	FAS 240027 R1.6
FR-2.5-3C+ES	3 + ES	2.50 mm ²	17.7 mm	WS52W	FAS 240027 R1.6
FR-4.0-3C+ES	3 + ES	4.00 mm ²	19.3 mm	WS52W	FAS 240027 R1.6
FR-6.0-3C+ES	3 + ES	6.00 mm ²	21.3 mm	WS52W	FAS 240027 R1.6
FR-10.00-3C+E(4)	3 + E	10 mm ²	19.4 mm	WS52W	FAS 240027 R1.6
FR-2.50-4C+E(2.5)	4 + E	2.5 mm ²	15.8 mm	WS52W	FAS 240027 R1.6
FR-4.0-4C+E(2.5)	4 + E	4.00 mm ²	17.2 mm	WS52W	FAS 240027 R1.6
FR-6.00-4C+E(2.5)	4 + E	6.00 mm ²	20 mm	WS52W	FAS 240027 R1.6
FR-10-4C+E(4)	4 + E	10 mm ²	23 mm	WS52W	FAS 240027 R1.6
FR-16-4C+E(6)	4 + E	16 mm ²	27 mm	WS52W	FAS 240027 R1.6
FR-25-4C+E(6)	4 + E	25 mm ²	31 mm	WS52W	FAS 240027 R1.6
FR-35-4C+E(10)	4 + E	35 mm ²	36 mm	WS52W	FAS 240027 R1.6
FR-50-4C+E(16)	4 + E	50 mm ²	42 mm	WS52W	FAS 240027 R1.6
FR-70-4C+E(25)	4 + E	70 mm ²	46.7 mm	WS52W	FAS 240027 R1.6
FR-95-4C+E(25)	4 + E	95 mm ²	51.3 mm	WS52W	FAS 240027 R1.6
FR-6-1C	1	6 mm ²	10.6 mm	WS52W	FAS 240027 R1.6
FR-10-1C	1	10 mm ²	11.8 mm	WS52W	FAS 240027 R1.6
FR-16-1C	1	16 mm ²	12.8 mm	WS52W	FAS 240027 R1.6
FR-25-1C	1	25 mm ²	14.2 mm	WS52W	FAS 240027 R1.6
FR-35-1C	1	35 mm ²	16 mm	WS52W	FAS 240027 R1.6
FR-50-1C	1	50 mm ²	18 mm	WS52W	FAS 240027 R1.6
FR-70-1C	1	70 mm ²	20 mm	WS52W	FAS 240027 R1.6
FR-95-1C	1	95 mm ²	23 mm	WS52W	FAS 240027 R1.6
FR-120-1C	1	120 mm ²	25 mm	WS52W	FAS 240027 R1.6
FR-150-1C	1	150 mm ²	28 mm	WS52W	FAS 240027 R1.6
FR-185-1C	1	185 mm ²	30 mm	WS52W	FAS 240027 R1.6
FR-240-1C	1	240 mm ²	33 mm	WS52W	FAS 240027 R1.6
FR-300-1C	1	300 mm ²	35 mm	WS52W	FAS 240027 R1.6
FR-400-1C	1	400 mm ²	41 mm	WS52W	FAS 240027 R1.6
FR-500-1C	1	500 mm ²	46 mm	WS52W	FAS 240027 R1.6
FR-630-1C	1	630 mm ²	50 mm	WS52W	FAS 240027 R1.6
FR-16-3C+E(6)	3C+E	16 mm ²	27 mm	WS52W	FAS 240027 R1.6
FR-25-3C+E(6)	3C+E	25 mm ²	31 mm	WS52W	FAS 240027 R1.6
FR-35-3C+E(10)	3C+E	35 mm ²	35 mm	WS52W	FAS 240027 R1.6
FR-50-3C+E(16)	3C+E	50 mm ²	39 mm	WS52W	FAS 240027 R1.6
FR-70-3C+E(25)	3C+E	70 mm ²	48 mm	WS52W	FAS 240027 R1.6
FR-95-3C+E(25)	3C+E	95 mm ²	55 mm	WS52W	FAS 240027 R1.6
FR-10-2C+E(4)	2C+E	10 mm ²	22.0 mm	WS52W	FAS 240027 R1.6
FR-16-2C+E(6)	2C+E	16 mm ²	25.5 mm	WS52W	FAS 240027 R1.6
FR-25-2C+E(6)	2C+E	25 mm ²	29 mm	WS52W	FAS 240027 R1.6
FR-35-2C+E(10)	2C+E	35 mm ²	33 mm	WS52W	FAS 240027 R1.6
FR-50-2C+E(16)	2C+E	50 mm ²	37 mm	WS52W	FAS 240027 R1.6

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FR-70-2C+E(25)	2C+E	70 mm ²	47 mm	WS52W	FAS 240027 R1.6
FR-95-2C+E(25)	2C+E	95 mm ²	54 mm	WS52W	FAS 240027 R1.6

E = Earth, ES = Earth Screened

Schedule of installation components

The following is a schedule of validated installation components of the certified/listed system.

Part number	Type	Length	Width	Max. cable bundle diameter	Stainless steel grade	Certificate of test/Assessment ident.
SST-200	Cable tie	200 mm	4.6 mm	50 mm	ANSI.304	SFC 2871301a (PR:SST)
SST-360		360 mm		95 mm		

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Certificate of Assessment	SFC 2331900a.1	Certificate of Test Firesense Type 1, Cable Group 4, WS51W	28-Oct-2009	Warringtonfire Australia Pty Ltd, AU
	SFC 2871301a	FireSense Stainless Steel Cable tie with Roller Ball Lock, SST	10-Sep-2013	
	24560a.SFC5.0	Certificate of Test 2C x 1.0mm, Firesense Type 5, Cable Group 4, WS51W	4-Aug-2015	
Report number	FAS240027 R1.6	Fire assessment report The classification of various FireSense cables in accordance with AS/NZS 3013:2005 Appendix A, B, D, and E Sponsor: FireSense Pty Ltd Report number: FAS240027 Revision: R1.6 Issued date: 23 July 2025 Expiry date: 30 April 2029 (20250723-FAS240027 R1.6.pdf)	23-Jul-2025	Jensen Hughes Fire Testing Australia Pty Ltd
	24560-R5.0	The Classification of Various Firesense cables in accordance with AS/NZS 3013 : 2005	21-May-2020	Warringtonfire Australia Pty Ltd, AU
Datasheet	N/A	FireSense Product Data Sheet 0.75 mm ² 10 Core 2HR Fire Rated Cable 1.50 mm ² 10 Core 2HR Fire Rated Cable 2 Core + Earth 2HR Fire Rated Cable 2 Core Screened – White Stripe 2HR Fire Rated Cable 2 Core Screened 2HR Fire Rated Cable 2 Core – White Stripe 2HR Fire Rated Cable 2 Core 2HR Fire Rated Cable 3 Core + Earth Screened 2HR Fire Rated Cable 3 Core + Earth 2HR Fire Rated Cable 3 Core 2HR Fire Rated Cable 4 Core + Earth 2HR Fire Rated Cable 4 Core Screened 2HR Fire Rated Cable (Black Sheath) 4 Core Screened 2HR Fire Rated Cable 4 Core 2HR Fire Rated Cable 6 Core Screened 2HR Fire Rated Cable 6 Core 2HR Fire Rated Cable 8 Core Screened 2HR Fire Rated Cable Single Core 2HR Fire Rated Cable FR-1.50-2CS+SWA 2HR Fire Rated Cable Steel Wire Armour	21-Jul-25	FireSense Pty Ltd, AU