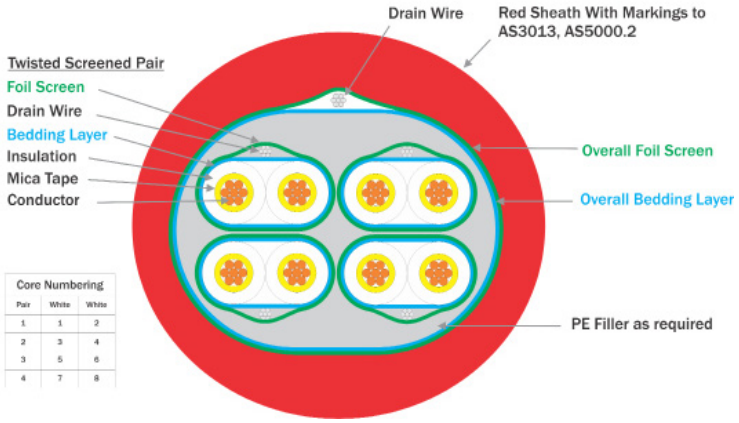
PRODUCT DATA SHEET

FR-1.50-4PS
2HR Fire Rated Cable
4 Pair Screened (+ OA Screen) - Red

FEATURES

- ✓ AS/NZS 3013 Approved
- ✓ AS/NZS 5000.2 Approved
- ✓ AS/CA S008 Compliant
- ✓ 450/750V rated
- ✓ Flame retardant
- ✓ Twisted inner cores
- ✓ Individually screened pairs
- ✓ Overall screened
- ✓ LSZH insulation and sheath



PRODUCT DESCRIPTION

FireSense 2HR Fire Rated Fire Alarm cables have been specifically designed for use with Australian Fire Alarm, EWIS & Fan Control applications. This 4 Pair Screened - Individually & Overall - is ideal for PA Systems requiring maximum noise immunity and signalling requirements.

Independently tested and approved to the requirements of AS/NZS 3013 for both fire and mechanical cable properties, these cables are certified 2 hour fire rated, meet the stringent impact and cutting test requirements of AS/NZS 3013, and are flexible, easy to strip, install and terminate, saving valuable time on site.

Environmentally friendly meeting the Green Building Code of Australia / Green Star requirements, all FireSense 2HR Fire Rated cables are made from LSZH materials & have third party PVC Free Certification from Bureau Veritas and Good Environmental Choices Australia (GECA).

FireSense cables are the only FULL range of ActivFire certified cable in Australia.

TECHNICAL SPECIFICATIONS

Conductors	Stranded Annealed Copper
Flame Barrier	Mica Tape
Insulation	Flame Retardant, Low Smoke, Zero Halogen (X-HF-110)
Sheath	Flame Retardant, Low Smoke, Zero Halogen (HFS-110-TP)*
Voltage Rating	450/750V
Operating Temperature	-25ºC to +110ºC
Insulation Colour	White numbered cores (4 Pair)
Sheath Colour	Red
Min Bending Radius	10 x Cable Diameter
Screen	Aluminium/polyester laminate

* Please note: LSZH HFS-110-TP sheath material is UV stabilised but red colour may be subject to fading over time if exposed to direct sunlight.

www.firesense.com.au

NSW
(02) 8850 2888
sales@firesense.com.au

VIC
(03) 9646 4557
salesvic@firesense.com.au

QLD
(07) 3890 8842
salesqld@firesense.com.au

PRODUCT DATA SHEET

FR-1.50-4PS
2HR Fire Rated Cable
4 Pair Screened (+ OA Screen) - Red

ELECTRICAL CHARACTERISTICS

Part Number	DC Resistance (Ω / km)	Capacitance Red/White pF/m)	Capacitance Conductor/Screen (pF/m)	Inductance (uH/m)
FR-1.50-4PS	13.6	89	163	0.74

STANDARDS COMPLIANCE

Fire & Mechanical	AS/NZS 3013
Cable Construction	AS/NZS 5000.2
ACMA Compliance	AS/CA S008
Conductors	AS/NZS 1125
Insulation	AS/NZS 3808
Sheath	AS/NZS 3808
Cable	AS/CA S008
Cable Performance	AS/NZS 4507 (RHE-3)
Vertical Flame Spread	AS/NZS 1660.5.1 (Section 6 - Category C - AS/NZS IEC 60332-3-24)
Smoke Density	AS/NZS 1660.5.2, AS/NZS IEC 61034
Halogen Gas	AS/NZS 1660.5.3, AS/NZS IEC 60754-1
Acidity of Gases	AS/NZS 1660.5.4, AS/NZS IEC 60754-2
Vertical Flame Propogation	AS/NZS 1660.5.6, AS/NZS IEC 60332-1

ORDERING INFORMATION*

Part Number	No. of Cores	Conductor Cross Section (mm^2)	Approx Overall Diameter (mm)	AS/NZS 3013 Rating
FR-1.50-4PS	8 (4 pair)	1.50	22mm	WS52W

*Indent item - MOQs and lead times may apply.

NSW
(02) 8850 2888
sales@firesense.com.au

VIC
(03) 9646 4557
salesvic@firesense.com.au

QLD
(07) 3890 8842
salesqld@firesense.com.au

PRODUCT DATA SHEET

FR-1.50-4PS
2HR Fire Rated Cable
4 Pair Screened (+ OA Screen) - Red

CLASSIFICATION

AS/NZS 3013 is a classification system which defines the performance of a Wiring System (WS). The classification system prefix is 'WS' followed by two numerals and a supplementary letter W. ie

AS/NZS 3013 Fire Rated Cable Technical Information

Classification of the fire and mechanical performance of wiring system elements:

AS/NZS 3013 is a classification system which defines the performance of a Wiring System (WS). The classification system prefix is 'WS' followed by two numerals and a supplementary letter W. ie.

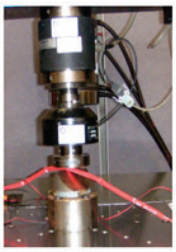
WS	5	2	W

1	15 minutes
2	30 minutes
3	60 minutes
4	90 minutes
5	120 minutes





	Impact Test (J)	Cutting Test (kN)	Level of Protection
1	2.5	0.3	Light
2	15	1.0	Moderate
3	50	5.0	Heavy
4	500	5.0	Very Heavy
5	5000	5.0	Extremely Heavy



The 'W' suffix denotes the wiring system's capability to maintaining circuit integrity when subjected to water spray immediately following a fire.

Cables are subjected to fire at 1050°C for 120 minutes, then water sprayed for a further 3 minutes.



FireSense
www.firesense.com.au

NSW
(02) 8850 2888
sales@firesense.com.au

VIC
(03) 9646 4557
salesvic@firesense.com.au

QLD
(07) 3890 8842
salesqld@firesense.com.au