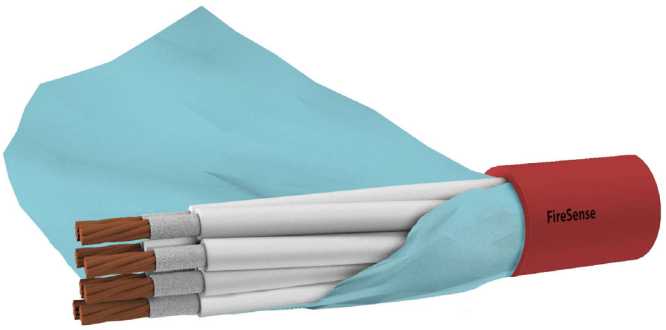
PRODUCT DATA SHEET

8 Core Screened 2HR Fire Rated Cable

FEATURES

- ✓ 2HR Fire Rated
- ✓ AS/NZS 3013 Approved
- ✓ AS/NZS 5000.2 Approved
- ✓ AS/CA S008 Compliant
- ✓ ActivFire Certified
- ✓ RCM Certified
- ✓ 110°C continuous operation
- ✓ Flame retardant
- ✓ Easy to strip & terminate
- ✓ 4 twists per meter
- ✓ Low smoke zero halogen (PVC Free) Third Party Accredited



PRODUCT DESCRIPTION

FireSense fire rated cables have been specifically designed for use with Australian Fire Alarm and EWIS systems.

Our cables have been independently tested and approved by Warrington Fire to the requirements of AS/NZS 3013 for both fire and mechanical cable properties. All FireSense cables are certified 2 hour fire rated and are the only fire rated cables in Australia to have ActivFire Certification.

All FireSense fire rated series cables are made from LSZH materials and have received third party PVC Free Certification from GECA (Good Environmental Choice Australia).

FireSense fire rated cables have also been tested and approved to electrical standards AS/NZS 5000.2 and communication/wiring standard AS/CA S008 by respective industry testing authorities.

The cable's copper conductors and firm insulation material allows for neat placement on cable trays and allows ease of stripping and termination. The screened alternative reduces electrical noise & reduces the impact on signals.

It is recommended that FireSense stainless steel cable ties be used for fixing cable to tray every 1.0 meter when mounted horizontally and every 0.6 metres when mounted vertically. When fixing FireSense fire rated cables to catenary wire our manufacturer's recommendation is as follows:

If cable bunch is ≥ 25mm diameter cables should be supported with stainless steel ties every 300mm.
If cable bunch is < 25mm diameter cables should be supported with stainless steel ties every 600mm.

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ORDERING INFORMATION

Part Number	No. of Cores	Cross Section (mm^2)	Copper Wire Diameter (mm)	Approx Overall Diameter (mm)	AS/NZS 3013 Classification
FR-0.75-8CS	8	0.75	0.37	15.8	WS51W

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, numbered 1 to 8
Insulation Nominal Thickness	0.70mm
Insulation Minimum Thickness	0.60mm
Sheath Colour	Red
Sheath Nominal Thickness	1.80mm
Sheath Minimum Thickness	1.50mm
Minimum Bending Radius	10 x Cable Diameter
Overall Screen	Aluminum / Polyester Laminate
Drain Wire	Tinned Copper 7/0.25mm^2

* 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.

STANDARDS COMPLIANCE

Fire & Mechanical	AS/NZS 3013 Appendix A,B,D,E, AS/NZS 4507 (CI-3)
Cable Construction	AS/NZS 5000.2
Conductors & Insulation	AS/NZS 1125, AS/NZS 3808, IEC 60228 AS/NZS 1660.1, AS/NZS 1660.2, 1660.3, 1660.4
Vertical Flame Spread	AS/NZS 1660.5.1
Smoke Density	AS/NZS 1660.5.2, IEC 61034
Halogen Gas	AS/NZS 1660.5.3, IEC 60754 - 1&2
Acidity of Gases	AS/NZS 1660.5.4
Vertical Flame Propagation	AS/NZS 1660.5.6, IEC 60332-1, IEC 60332-3-24
ACMA Compliance	AS/CA S008

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APPROVALS & CERTIFICATION

Part Number	AS/NZS 3013			AS/NZS 5000.2	
	Rating	Certificate No.	Issuer	Certificate No.	Issuer
FR-0.75-8CS	WS51W	SFC24560m-R5.0	Warrington Fire	GMA-511152	Global Mark Pty Ltd

ActivFire Listing Number	afp-2417		
RCM Responsible Supplier	E6560	Level 3	GMA-511152
GECA Claims Authentication License Number	Fir-2021		
Bureau Veritas CoC Number	2835		

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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

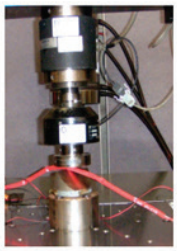
Classification of the fire and mechanical performance of wiring system elements:

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.

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