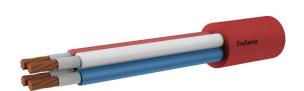


3 Core + Earth 2HR Fire Rated Cable

FEATURES

- ✓ 2HR Fire Rated
- √ 0.6/1kV insulation rating
- √ 110°C conductor temp
- √ AS/NZS 3013 WS52W
- ✓ AS/NZS 5000.1
- √ AS/ACIF S008
- √ RCM Certified
- ✓ ActivFire Certified
- ✓ Low smoke zero halogen
- √ Flame retardant



CONDUCTOR SIZES AVAILABLE

2.50 mm² 4.00mm² 6.00mm²

PRODUCT DESCRIPTION

FireSense Fire Rated cables have been specifically designed for use within the Fire Alarm and Mechanical/Electrical industries. FireSense Fire Rated Cables are constructed from the highest quality cross linked polymers available and are designed to be easy to install, strip and terminate.

FireSense Fire Rated cables have been independently tested and approved by EXOVA/Warringtonfire to the exacting requirements of AS/NZS 3013 for both fire and mechanical cable properties. All FireSense cables are certified 2 hour fire rated. FireSense Fire Rated Cables have also been tested and approved to electrical standards AS/NZS 5000.1 and communication/wiring standard AS/ACIF S008 by respective industry testing authorities.

FireSense cables are manufactured using 100% pure, annealed, 7 strand copper conductors for ease of termination while achieving the highest possible electrical performance. FireSense's highly specialised insulation and outer sheath materials meet the stringent Impact and Cutting test requirements of AS/NZS 3013 yet allow for ease of stripping and cable placement on trays saving valuable time on site.

FireSense 2C+E cables have 2.5mm², 4.0mm² and 6.0mm² conductors and are ideal for powering FIP and EWIS panels, diesel pump control panels, centralised emergency lighting system or any other 240VAC essential service equipment & devices.

It is recommended that FireSense stainless steel cable ties be used for fixing cable to tray every 1.0 metre when mounted horizontal 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 \geq 25mm diameter cables should be supported with Stainless Steel ties every 300mm. If Cable bunch is \leq 25mm diameter cables should be supported with Stainless Steel ties every 600mm.





3 Core + Earth 2HR Fire Rated Cable

ORDERING INFORMATION

Part Number	No. of Cores	Cross Section (mm²) (Conductors)	Core Conductor Strands x dia. (mm)	Overall Diameter (mm)	Operating Temp (°C)	AS/NZS 3013 Rating
FR-2.50-3C+E	3 + E	2.50	7 x 0.67	14.5	-25 to +110	WS52W
FR-4.00-3C+E	3 + E	4.00	7 x 0.85	16.1	-25 to +110	WS52W
FR-6.00-3C+E	3 + E	6.00	7 x 1.04	18.2	-25 to +110	WS52W

ELECTRICAL CHARACTERISTICS

Part Number	DC Resistance (Ω / km)	AC Resistance @ 50Hz (Ω / Km at °C) As per AS3008 Table 35			Current Carrying Capacity Unenclosed (Amps) As per AS3008 Table 15			3 Phase Voltage Drop @ 50Hz (mV/A.m at °C) As per AS3008 Table 42				
	20°C	45°C	75°C	90°C	110°C	Stranded	Touching	Exposed	45°C	75°C	90°C	110°C
FR-2.50-3C+E	7.05	8.14	9.01	9.45	10	35	33	30	14.1	15.6	16.4	17.4
FR-4.00-3C+E	4.60	5.06	5.61	5.88	6.24	47	44	40	8.77	9.71	10.2	10.8
FR-6.00-3C+E	2.98	3.38	3.75	3.93	4.17	59	56	50	5.86	6.49	6.8	7.22

CONSTRUCTION

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	-25°C to +110°C		
Insulation Colour	Red, Blue, White, Green/Yellow		
Sheath Colour	Red		
Min Bending Radius	10 x Cable Diameter		





3 Core + Earth 2HR Fire Rated Cable

STANDARDS COMPLIANCE

Fire & Mechanical	AS/NZS 3013 Appendix A,B,D,E
Conductors	AS/NZS 1125 Class 2
Cable Construction	AS/NZS 5000.1
Vertical Flame Speed	AS/NZS 1660.5.1
Smoke Density	AS/NZS 1660.5.2
Halogen Gas	AS/NZS 1660.5.3
Acidity of Gases	AS/NZS 1660.5.4
Vertical Flame Propagation	AS/NZS 1660.5.6
ACMA Compliance	AS/ACIF S008

APPROVALS

Part Number		AS/NZS 30	AS/NZS 5000.1		
Part Number	Rating	Certificate No.	Issuer	Certificate No.	Issuer
FR-2.50-3C+E	WS52W	SFC26123A.04	EXOVA/Warringtonfire	ASA-181008-EA	ASA
FR-4.00-3C+E	WS52W	SFC26123B.04	EXOVA/Warringtonfire	ASA-181008-EA	ASA
FR-6.00-3C+E	WS52W	SFC26123C.04	EXOVA/Warringtonfire	ASA-181008-EA	ASA

ActivFire Listing No.	afp-2417
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RCM Responsible Supplier	E6560	Level 3	ASA-181008-EA









3 Core + Earth **2HR Fire Rated Cable**

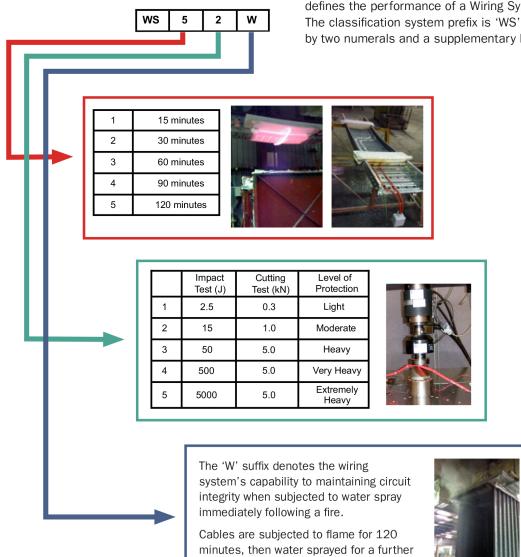
CLASSIFICATION

AS3013 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.





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