

MASER FIRE RATED CABLES

Tested to meet two hour specifications.

Maser Fire Rated Cables have been specifically designed for use in areas where supply to critical systems needs to be maintained in the event of fire. Designed, manufactured and tested to meet a Two Hour Fire rated specification.

Why use Fire Rated Cables?

Fire Rated Cables are vital for maintaining supply to critical areas in the event of a fire.

Will the Fire Rated cable burn in fire conditions?

Yes. As with most cables the outer sheath of the cable will burn but being of Low Smoke Zero Halogen compound means it won't release dioxins and other chemicals that can result in toxic fume inhalation. It will also result in reduced smoke density during a fire compared to other more traditional cables.

How do Fire Rated Cables operate in fire conditions?

Maser Fire Rated Cables are designed and tested to maintain system integrity in fire conditions for two hours minimum. Maser Fire Rated Cables are manufactured with a Fire Resistant Mica Tape around the conductors to enable the cable to continue operating even with extensive fire damage to the outer sheath.

Are Fire Rated and Flame Retardant cables the same?

No. While Fire Rated cables are also Flame Retardant, Flame Retardant Cables aren't classed as Fire Rated. Fire Rated Cables are designed and manufactured to continue operating in fire conditions. Flame Retardant Cables don't have Fire Resistant capabilities and are tested for flame propagation only.



What are some applicable installations areas for Fire Rated Cables?

- » EWIS Systems
- » Emergency Lighting
- » Smoke Extraction systems
- » Rail & Vehicle Tunnels
- » Elevators and Risers

What are the applicable standards for Fire Rated cables?

A Two Hour Fire Rated cable is manufactured to AS/NZS3013 Standard and has a Fire and Mechanical classification which defines the performance of the Wiring System (WS).

As an example a WS52W rated cable will have the following classification:

- » **WS** = Suitable for a Wiring System
- » **5** = Has circuit integrity in fire conditions for 2 Hours
- » **2** = Has moderate mechanical damage protection
- » **W** = Has circuit integrity after overhead water exposure

What type of cables are available in Maser's Fire Rated Cable range?

- » Circular 0.6/1kv 2C+E
- » Circular 0.6/1kv 3C+E
- » Multi Core Control
- » Paired Screened Communication
- » Special Made to order requests



Maser Fire Rated Cable Features:

- » 2 Hour Fire Rating
- » Low Smoke Zero Halogen
- » Tinned Copper Conductors
- » 110°C Conductor Temp
- » AS/NZS5000.1
- » AS/NZS5000.2
- » Easy to strip and terminate.

WS	1st Numeral Elect. performance		2nd Numeral Mech. performance		Supplement letter
	Number	Circuit integrity in fire condition	Number	Protection against mechanical damage	
Characteristic Lettering "WS"	1	15 min	1	Light	Water spray test Insert "W" as appropriate
	2	30 min	2	Moderate	
	3	60 min	3	Heavy	
	4	90 min	4	Very Heavy	
	5	120 min	5	Extreme	



Visit <https://www.maser.co.nz/product-category/cables/fire-rated-cable/> or see your local Powerbase wholesaler for further information.

