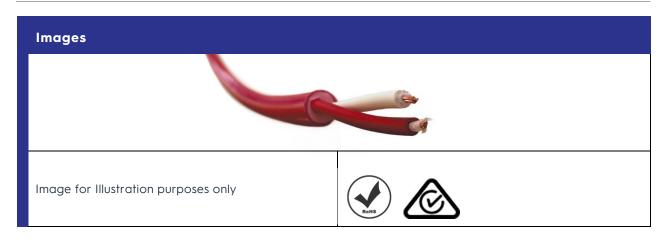
## Fire Rated Circuit Integrity Cable



Part No:	GCC434945D Series
Description	Class 2 plain annealed copper conductors from 1.5 mm² up to 6 mm², fire barrier tape wrapped, X-HF-110 insulated, cabled, X-HFS-110-TP jacketed, WS52-W fire rated copper cable.
Applicable Standards	AS/NZS 5000.1, AS/CA S-008, AS/NZS 3013, AS 1670.1, AS/NZS 4507, IEC 60332-1, IEC 60754-1 and 2, IEC 61034-2
Suitable Applications	Fire rated cable for use in security, fire alarm, telecommunication and other circuits requiring circuit integrity under fire conditions.



Construction				
Conductor	Material	PACW		
	Size	Refer to Supply Information		
	Stranding	Class 2		
	Wrapping	2 x Fire Barrier Tapes		
Insulation	Number of conductors <sup>1</sup>	2		
	Material	X-HF-110 (Cross Linked Halogen Free)		
	Calarin	Wire 1	Red	
	Colour	Wire 2	White	
	Nominal Thickness (mm)	0.9		
Sheath	Material	X-HFS-110-TP (Cross Linked Halogen Free)		
	Colour	Refer to Supply Information		
	Nominal Thickness (mm)	1.9		
	Nominal OD (mm)	Refer to Supply Information		





## Fire Rated Circuit Integrity Cable

Electrical Properties	
Designed Voltage Rating <sup>1</sup>	0.6/1KV

Mechanical Properties			
Operating Temperature Range	-25 to 110°C		
Min. Bend Radius	54 mm		
A.C. 1470 1.2019 Marship a	Red Jacket versions	ELV FIRE	
AS 1670.1:2018 Marking	Red jacket + white stripe versions	LV FIRE	

Fire and Flame Performance		
AS 3013 rating	WS52-W	
Fire resistance according to AS 3013	2 hours	
Resistance to water spray according to AS 3013	Yes	
Flame performance	IEC 60332-1	
Acid gas generation	IEC 60754-1 and 2 HCL content ≤ 5mg/g (0.5%) pH ≥ 4.3 Conductivity ≤10µS/mm	
Light Transmittance	IEC 61034-2 ≥ 60%	
AS/NZS 4507 Classification <sup>2</sup>	RHE-1 and CI-1	



<sup>&</sup>lt;sup>1</sup> Cable dimensions, materials and thicknesses designed according to AS/NZS 5000.1 for cables up to 0.6/1KV. Actual voltages to be applied during service should align with jacket markings and applications. Refer to AS 1670.1 for further clarification.

 $<sup>^2</sup>$  AS/NZS 4507 refers to the now superseded AS/NZS 1660 series of standards for test methods and requirements. The classification listed above is based on meeting the requirements of the IEC standards that superseded AS/NZS 1660.



## Fire Rated Circuit Integrity Cable

Supply Information <sup>3</sup>					
Product No	Number of Cores	Conductor Size	Jacket Colour	Cable Diameter	Drum Length
GCC434945D-2C15R250	2	1.5 mm <sup>2</sup>	Red	11.8 mm	250 m
GCC434945D-2C15R500	2	1.5 mm <sup>2</sup>	Red	11.8 mm	500 m
GCC434945D-2C15RW250	2	1.5 mm <sup>2</sup>	Red + White Stripe	11.8 mm	250 m
GCC434945D-2C15RW500	2	1.5 mm <sup>2</sup>	Red + White Stripe	11.8 mm	500 m
GCC434945D-2C25R250	2	2.5 mm <sup>2</sup>	Red	12.6 mm	250 m
GCC434945D-2C25R500	2	2.5 mm <sup>2</sup>	Red	12.6 mm	500 m
GCC434945D-2C25RW250	2	2.5 mm <sup>2</sup>	Red + White Stripe	12.6 mm	250 m
GCC434945D-2C25RW500	2	2.5 mm <sup>2</sup>	Red + White Stripe	12.6 mm	500 m

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances



 $<sup>^{\</sup>rm 3}$  Alternative conductor sizes and core counts available upon request. MOQ and lead times may apply.