

# Fire Rated Circuit Integrity Cable

**Part No:** GCC434945D Series

**Description** Class 2 plain annealed copper conductors from 1.5 mm<sup>2</sup> up to 6 mm<sup>2</sup>, 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.

## Images



Image for Illustration purposes only



## Construction

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

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## Electrical Properties

<b>Designed Voltage Rating<sup>1</sup></b>	0.6/1KV
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## Mechanical Properties

<b>Operating Temperature Range</b>	-25 to 110°C	
<b>Min. Bend Radius</b>	54 mm	
<b>AS 1670.1:2018 Marking</b>	Red Jacket versions	ELV FIRE
	Red jacket + white stripe versions	LV FIRE

## Fire and Flame Performance

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

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 AS/NZS 4507 refers to the now superseded AS/NZS 1660 series of standards for test methods and requirements. The classification listed above is based on meeting the requirements of the IEC standards that superseded AS/NZS 1660.

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## 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

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<sup>3</sup> Alternative conductor sizes and core counts available upon request. MOQ and lead times may apply.