# **FRZHMB**

# Low Voltage Fire Performance Cable Joint Kits

(Excludes Connectors)





# **Application**

Branch joints for Fire Performance cables with copper conductors from 2.5mm<sup>2</sup> to 120mm<sup>2</sup>

## **Features**

- Low Hazard Isocynate free JEM resin
  - Twin Pack mixing in clear laminate sachets
  - Extremely low viscosity combined with enhanced adhesion
- Rigid glass reinforced phenolic joint shells which are both fire retardant and LSOH.
- Slim-line design for use with compression connectors
- Meet the Fire resistance requirements of BS6387 categories C, W & Z



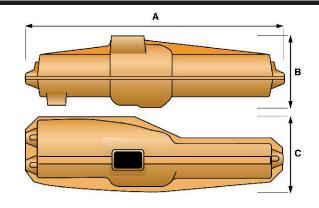


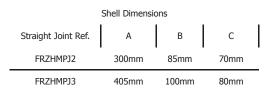
### FRZHMB Low Voltage Fire Performance Cable Joints

#### **Technical Data**

- > Low Voltage Branch Joints for 600/1000 Volt fire performance insulated SWA cables with copper conductors.
- > Tested and approved to BS EN 50393 & ENA ER C81
- > Fire tests on complete joints to BS 6387 categories C, W and Z
- > Includes constant force spring Armour Bonds.
- > JEM Resin
  - Easier mixing in "Twin Pack" totally enclosed mixing in a clear laminate sachet.
  - Extremely low mix viscosity allows void free joint filling.
  - JEM Resin is insensitive to moisture and will cure under water.
  - Enhanced adhesion to XLPE, MDPE, PVC & lead.
  - High flash point, non-flammable liquid No special storage or transport requirements.
  - Not classified as irritating to the skin or eyes.
  - Does not cause skin sensitization.

Prysmian's Fire Resistant Joints are tested to BS6387 categories C,W & Z	Performance	Symbol	FR Joint
Resistance to Fire The joint is tested by exposure to gas burner flames while passing a current at its rated voltage	650°C for 3 hours 750°C for 3 hours 950°C for 3 hours	A B C	PASS PASS PASS
Resistance to Fire with Water Spray The joint is exposed to flames at 650°C for 15 minutes whilst passing a current of 250MA at a rated voltage and then the spray is turned on to give exposure to both fire and water for a further 15 minutes	650°C	W	PASS
Resistance to Fire with Mechanical Shock The joint is mounted on a back panel and exposed to flames whilst the bedding panel is struck with a solid steel bar every 30 seconds for 15 minutes	950°C	Z	PASS





#### Joint selection for 2, 3 and 4 core cables

	Nominal Area of Conductor	Two Core Ref.	Three Core Ref.	Four Core Ref.
	2.5mm <sup>2</sup>	FRZHMB1	FRZHMB1	FRZHMB1
	4mm²	FRZHMB1	FRZHMB1	FRZHMB1
	6mm²	FRZHMB1	FRZHMB1	FRZHMB1
	10mm²	FRZHMB1	FRZHMB1	FRZHMB1
	16mm²	FRZHMB1	FRZHMB1	FRZHMB2
-				



	Nominal Area of Conductor	Two Core Ref.	Three Core Ref.	Four Core Ref.	
_	25mm²	FRZHMB1	FRZHMB1	FRZHMB2	_
_	35mm²	FRZHMB1	FRZHMB2	FRZHMB2	-
_	50mm <sup>2</sup>	FRZHMB2	FRZHMB2	FRZHMB2	
_	70mm <sup>2</sup>	FRZHMB2	FRZHMB2	-	
_	95mm²	FRZHMB2	FRZHMB2	-	-
	100mm <sup>2</sup>	FRZHMB2	-	-	-

 $Note: ZHMB\ joints\ are\ provided\ without\ connectors,\ compression\ \&\ mechanical\ connectors\ can\ be\ provided\ separately.$ 

