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# FRZHMB

## Low Voltage Fire Performance Cable Joint Kits (Excludes Connectors)



## BICAST JEM

### 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

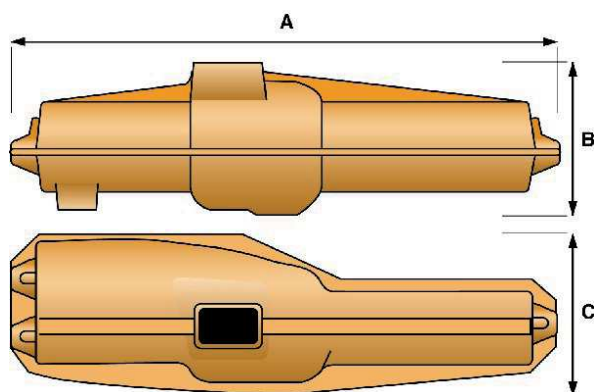


# FRZHMB Low Voltage Fire Performance Cable Joints

## 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	A	PASS
		750°C for 3 hours	B	PASS
		950°C for 3 hours	C	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



Shell Dimensions			
Straight Joint Ref.	A	B	C
FRZHMPJ2	300mm	85mm	70mm
FRZHMPJ3	405mm	100mm	80mm

## 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
4mm <sup>2</sup>	FRZHMB1	FRZHMB1	FRZHMB1
6mm <sup>2</sup>	FRZHMB1	FRZHMB1	FRZHMB1
10mm <sup>2</sup>	FRZHMB1	FRZHMB1	FRZHMB1
16mm <sup>2</sup>	FRZHMB1	FRZHMB1	FRZHMB2



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

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