

FRZHMB

Low Voltage Fire Performance Cable Joint Kits (Excludes Connectors)



BI CAST JEM

Application

Branch joints for Fire Performance cables with copper conductors from 2.5mm² to 120mm²

Features

- Low Hazard Isocyanate 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

CE

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 | 650°C for 3 hours | A | PASS |
| The joint is tested by exposure to gas burner flames while passing a current at its rated voltage | 750°C for 3 hours | B | PASS |
| | 950°C for 3 hours | C | PASS |
| Resistance to Fire with Water Spray | 650°C | W | PASS |
| 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 | | | |
| Resistance to Fire with Mechanical Shock | 950°C | Z | PASS |
| 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 | | | |

| 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 ² | FRZHMB1 | FRZHMB1 | FRZHMB1 |
| 4mm ² | FRZHMB1 | FRZHMB1 | FRZHMB1 |
| 6mm ² | FRZHMB1 | FRZHMB1 | FRZHMB1 |
| 10mm ² | FRZHMB1 | FRZHMB1 | FRZHMB1 |
| 16mm ² | FRZHMB1 | FRZHMB1 | FRZHMB2 |



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

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