

## LOW VOLTAGE

### Application

- > For use with FP400 fire resistant cables
- > To maintain circuit integrity under fire conditions

### Characteristics

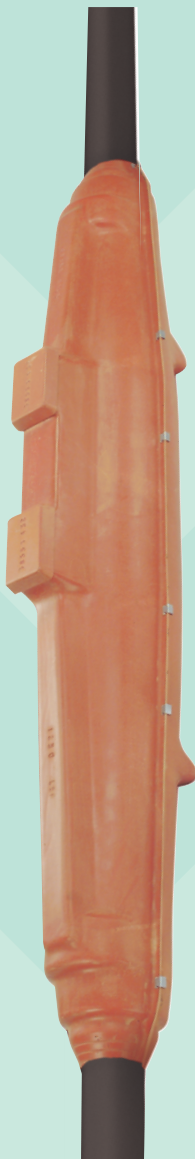
- > Prysmian Components has been the market leader in this field for many years, and has provided cable accessories for many major projects including:
  - Channel Tunnel
  - Singapore Metro
  - London Underground's Jubilee Line
  - Hong Kong International Airport
- > The joint shell material is a fire retardant, rigid thermo setting glass reinforced phenolic which is secured by steel clips

### Approvals

- > All products are low smoke zero halogen and comply with IEC 331 and BS6387 Category CWZ

### Features & Benefits

- > Mechanical Protection
- > Joints comply with BS EN 50393 & ENA ER C81
- > Joints comply with the Fire resistance requirements of BS6387 Categories C, W & Z.
- > Non-halogenated material (including resin)
- > Earth bonds included
- > Maintain circuit integrity during fire
- > Equal to FP400 cable characteristics
- > Quick and easy to install
- > No special tools necessary
- > No external heat required
- > Non-hazardous



## FP400 Joint Tests

Prysmian's fire resistant joints are tested to BS6387 categories C, W & Z

### Resistance to fire

The joint is tested by exposure to gas burner flames while passing a current at its rated voltage

Performance	Symbol	FR Joint
650°C for 3 hours	A	Passes
750°C for 3 hours	B	Passes
950°C for 3 hours	C	Passes

### 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.

Performance	Symbol	FR Joint
650°C	W	Passes

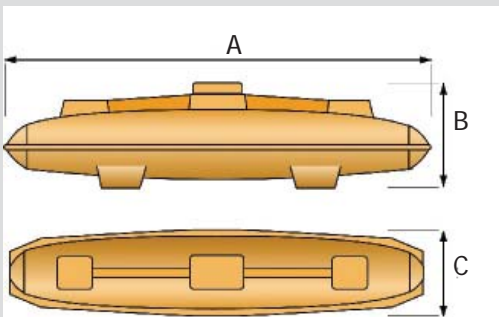
### Resistance to fire with mechanical shock

The joint is mounted on a back panel and exposed to flames whilst the backing panel is struck with a solid steel bar every 30 seconds for 15 minutes.

Performance	Symbol	FR Joint
950°C	Z	Passes

## Straight Joints

Shell Dimensions			
Joint Ref.	A	B	C
FRZHMPJ2	300mm	85mm	70mm
FRZHMPJ3	405mm	100mm	80mm
FRZHMPJ4	430mm	110mm	90mm
FRZHMPJ5	560mm	160mm	130mm
FRZHMPJ6	740mm	180mm	145mm
FRZHMPJ7	870mm	190mm	145mm
FRZHMPJ8	1015mm	205mm	180mm

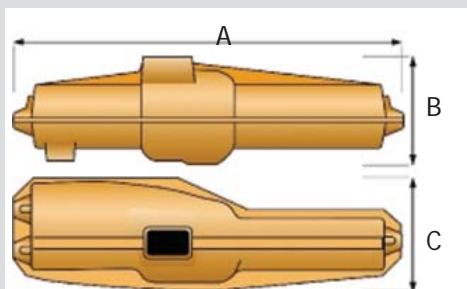


### Low Voltage FP400 Straight Joints

Nominal area of Conductor	Two Core Ref.	Three Core Ref.	Four Core Ref.	Connector Ref.
4mm <sup>2</sup>	FRZHMPJ2	FRZHMPJ2	FRZHMPJ2	BE-YS
6mm <sup>2</sup>	FRZHMPJ2	FRZHMPJ2	FRZHMPJ2	BTCS
10mm <sup>2</sup>	FRZHMPJ2	FRZHMPJ2	FRZHMPJ2	BT10CS
16mm <sup>2</sup>	FRZHMPJ2	FRZHMPJ3	FRZHMPJ3	BT16CS
25mm <sup>2</sup>	FRZHMPJ2	FRZHMPJ3	FRZHMPJ4	BT25CS
35mm <sup>2</sup>	FRZHMPJ3	FRZHMPJ4	FRZHMPJ4	BT35CS
50mm <sup>2</sup>	FRZHMPJ3	FRZHMPJ5	FRZHMPJ5	BT50CS
70mm <sup>2</sup>	FRZHMPJ4	FRZHMPJ5	FRZHMPJ5	BT70CS
95mm <sup>2</sup>	FRZHMPJ4	FRZHMPJ5	FRZHMPJ5	BT95CS
120mm <sup>2</sup>	FRZHMPJ5	FRZHMPJ6	FRZHMPJ6	BT120CS
150mm <sup>2</sup>	FRZHMPJ5	FRZHMPJ6	FRZHMPJ6	BT150CS
185mm <sup>2</sup>	FRZHMPJ5	FRZHMPJ6	FRZHMPJ6	BT185CS
240mm <sup>2</sup>	FRZHMPJ6	FRZHMPJ7	FRZHMPJ7	BT240CS
300mm <sup>2</sup>	FRZHMPJ6	FRZHMPJ7	FRZHMPJ7	BT300CS
400mm <sup>2</sup>	-	-	FRZHMPJ8	BT400CS

## Branch Joints

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



### Low Voltage FP400 Branch joints

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
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	-
120mm <sup>2</sup>	FRZHMB2	-	-



Compression Connector

**Notes: Connectors are sold separately**

Prysmian Cables &

Ref: FP400Joints/03/09



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