

# Resin Joints

## Application

## Characteristics

## Joint Features & Benefits



# Low Voltage Afumex LSOH Cable Joints

- > For use with all Afumex, LSOH and LSF cables
- > Prysmian offer a wide range of non-halogenated Afumex cable accessories for fire hazard applications
- > 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
- > Suitable for copper and aluminium conductors
- > Armour bonds included
- > Joints comply with the LV jointing standards BS EN 50393 & ENA ER C81
- > Joints comply with the Low smoke and acid gas emissions requirements of BS6724

# Low Voltage Afumex LSOH Cable Joints

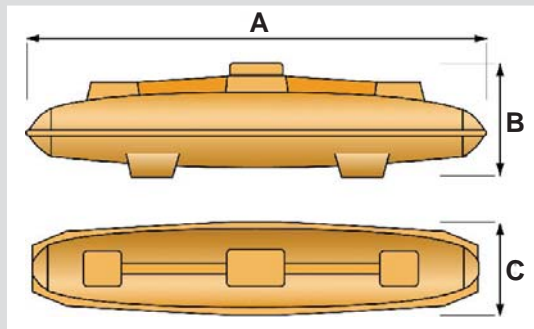
## Selection Information

Tests on complete joints to BS6724, using the methods described in IEC 1034, have shown that the smoke emission value  $A_0$  is significantly lower than the permitted maximum of 1.5

Joint Component Characteristics			
Property	Test Method	Shell GF Phenolic	Resin Filled Acrylic
Oxygen Index	BS2782 Pt.1 Mth.141	>70	>26
Temperature index	BS2782 Pt.1 Mth.143	>350°C	-
Heat Distortion Temp.	BS2782 Pt.1 Mth.121A	>150°C	-
Toxic Gas Emission	-	Nil	Nil
Smoke Emission	BS6724	$A_0 < 1.5$	-

## Straight joint

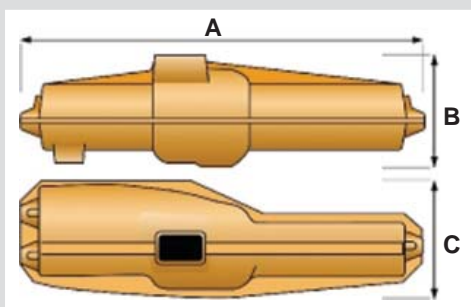
Straight Joint Ref.	Shell Dimensions		
	A	B	C
ZHMPJ2	300mm	85mm	70mm
ZHMPJ3	405mm	100mm	80mm
ZHMPJ4	430mm	110mm	90mm
ZHMPJ5	560mm	160mm	130mm
ZHMPJ6	740mm	180mm	145mm
ZHMPJ7	870mm	190mm	145mm
ZHMPJ8	1015mm	205mm	180mm



600/1000V Afumex Straight Joints				
Nominal area of Conductor	Two Core Ref.	Three Core Ref.	Four Core Ref.	Connector Ref.
4mm <sup>2</sup>	ZHMP J2	ZHMP J2	ZHMP J2	BE-YS
6mm <sup>2</sup>	ZHMP J2	ZHMP J2	ZHMP J2	BT6CS
10mm <sup>2</sup>	ZHMP J2	ZHMP J2	ZHMP J2	BT10CS
16mm <sup>2</sup>	ZHMP J2	ZHMP J3	ZHMP J3	BT16CS
25mm <sup>2</sup>	ZHMP J2	ZHMP J3	ZHMP J4	BT25CS
35mm <sup>2</sup>	ZHMP J3	ZHMP J4	ZHMP J4	BT35CS
50mm <sup>2</sup>	ZHMP J3	ZHMP J5	ZHMP J5	BT50CS
70mm <sup>2</sup>	ZHMP J4	ZHMP J5	ZHMP J5	BT70CS
95mm <sup>2</sup>	ZHMP J4	ZHMP J5	ZHMP J5	BT95CS
120mm <sup>2</sup>	ZHMP J5	ZHMP J6	ZHMP J6	BT120CS
150mm <sup>2</sup>	ZHMP J5	ZHMP J6	ZHMP J6	BT150CS
185mm <sup>2</sup>	ZHMP J5	ZHMP J6	ZHMP J6	BT185CS
240mm <sup>2</sup>	ZHMP J6	ZHMP J7	ZHMP J7	BT240CS
300mm <sup>2</sup>	ZHMP J6	ZHMP J7	ZHMP J7	BT300CS
400mm <sup>2</sup>	-	-	ZHMP J8	BT400CS

## Branch Joint

Branch Joint Ref.	Shell Dimensions		
	A	B	C
ZHMB1	420mm	150mm	150mm
ZHMB2	520mm	195mm	180mm

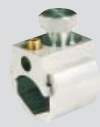


600/1000V Afumex Branch joints			
Nominal area of conductor	Two Core Ref.	Three Core Ref.	Four Core Ref.
10mm <sup>2</sup>	ZHMB1	ZHMB1	ZHMB1
16mm <sup>2</sup>	ZHMB1	ZHMB1	ZHMB2
25mm <sup>2</sup>	ZHMB1	ZHMB1	ZHMB2
35mm <sup>2</sup>	ZHMB1	ZHMB2	ZHMB2
50mm <sup>2</sup>	ZHMB2	ZHMB2	ZHMB2

### Compression Connector (copper only)



### Single Service Connector



### Notes:

- > For mechanical connectors see leaflet LV Mechanical Connectors
- > Connectors are sold separately
- > Armour bonds are included

### Mechanical Straight Connector



### Mechanical Branch Connector



Ref: AFUMEXJNT/02/09 P

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