

THORNE &  
**DERRICK**  
INTERNATIONAL

Thorne & Derrick  
+44 (0) 191 410 4292  
[www.powerandcables.com](http://www.powerandcables.com)

## ZHMB

# Low Voltage Afumex LSOH Cable Joint Kits

(Excludes Connectors)



## BI CAST JEM

### Application

Branch joints for LSOH/LSF LV cables with copper conductors from 10mm<sup>2</sup> to 50mm<sup>2</sup>

### 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
- Designed for use with compression and mechanical connectors

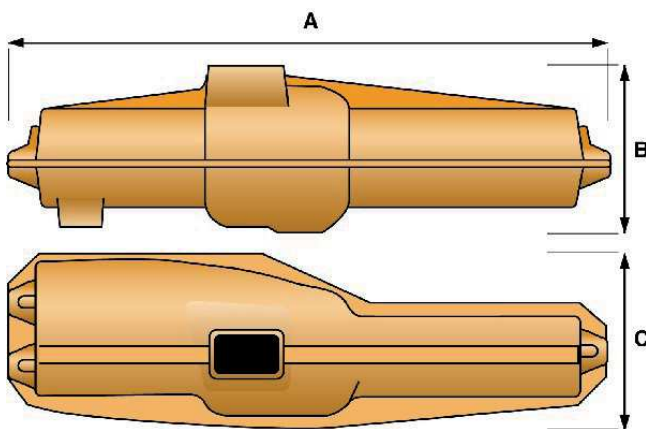


# ZHMB Low Voltage Afumex LSOH Cable Joints

## Technical Data

- > Low Voltage Branch Joints for 600/1000 Volt polymeric insulated copper conductors, SWA cables to BS6724 and IEC 60502-1 (halogen free).
- > Tested and approved to BS EN 50393 & ENA ER C81
- > Tests on complete joints to BS 6724 (using IEC 1034 methods) give smoke emission values  $A_0$  significantly less than the permitted maximum of 1.5.
- > 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.

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



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

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



Nominal Area of Conductor	600/1000V Afumex Branch Joints		
	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
70mm <sup>2</sup>	ZHMB2	ZHMB2	-
95mm <sup>2</sup>	ZHMB2	ZHMB2	-
120mm <sup>2</sup>	ZHMB2	-	-



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