

## **3M™ Scotchcast™ LVI-2/x-PTU Series Inline Resin Joint Kit with 40 Resin**

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### **Application**

3M Scotchcast™ resin joint kits LVI-2/x-PTU are designed to be used for multi core or multi pair armoured polymeric telecom cables with an induced voltage of up to 8.5kV, and for Pilot cables with an induced voltage of up to 15kV.

The application incorporates electrical insulation and mechanical protection of joints for use with either compression or mechanical connectors. They can be used for indoor and outdoor, underground and submerged applications.

### **Features**

- Scotchcast Resin 40 in transparent two chamber bags with integrated Closed Mixing and Pouring (CMP) system.
- One part transparent Mould Body with Snap Fit closing system for quick and easy handling.
- Pre cut foam sealing elements to provide reliable sealing to the Mould Body without tooling for all cable application diameters.
- Closure cap to prevent any pollution.



### **Kit content**

- Transparent mould body with closure cap
- Scotchcast™ 40 resin bag with CMP
- Pre-cut foam sealing elements
- Scotch™ 23 Tape
- Insulation Tubing (excluding kit sizes 2 & 7)
- Constant force springs
- Copper Stocking
- Spacer web tape
- Detailed installation instruction

### **Product Description**

3M™ Scotchcast™ LVI-2/x-PTU resin inline joint kit will be delivered with a one part transparent mould body for simple and easy handling. Distances inside the body can be checked easily.

All necessary dimensions, such as application range & cable preparation are given in the detailed instruction. The two foam sealing elements can be adapted to the required cable diameter by removing the pre-cut adapter rings. The resin 40 is delivered in a two chamber bag with integrated spout and aluminium guard gag for protection against humidity.

The re-openable seam and integrated spout with a membrane provides a Closed, Mixing and Pouring system. After the seam of the two chamber bag is opened, the resin components can be mixed. To pour

the resin into the mould body, the spout is connected with the dome by turning 180°. While turning, the membrane is cut open to pour the resin.

The Closed Mixing and Pouring System provides resin handling without any skin contact.

For protection against pollution, a closure cap is applied onto the dome.

After curing, the remaining resin in the bag can be disposed as household waste.

#### Product Selection

Kit Reference	Cable Range (Pairs)	Max Cable OD (mm)	Recommended Connector
<b>PE Insulated Armoured Multi pair Cables, 0.9mm<sup>2</sup></b>			
LVI-2/3-PTU	4	32	314
LVI-2/4-PTU	7	36	314
LVI-2/5-PTU	19	45	314
LVI-2/6-PTU	37	54	314
LVI-2/7-PTU	61	67	314
<b>PVC Insulated Armoured Multi pair Cables, 0.9mm<sup>2</sup></b>			
LVI-2/2-PTU	2	25	314
LVI-2/4-PTU	5 – 15	36	314
LVI-2/5-PTU	20 – 30	45	314
LVI-2/6-PTU	40 – 50	54	314
LVI-2/7-PTU	75 – 100	67	314
<b>PVC Insulated Armoured Multi Core Cables, 1.5 – 2.5mm<sup>2</sup></b>			
LVI-2/3-PTU	2 – 4	32	198-411
LVI-2/4-PTU	7 – 12	36	198-411
LVI-2/5-PTU	12 – 27	45	198-411
LVI-2/6-PTU	27 – 37	54	198-411

#### Testing

Scotchcast™ Resin Kit Series LVI-2/x-PTU was tested according to EN50393 Table 3 / I / A1

<b>Type of Test according to EN50393 Table 3 / I / A1</b>		<b>Results</b>
AC Voltage Withstand Test in air	4kV AC/ 1 min	passed
Insulation Resistance Test in air	1kV DC	> 10.000MΩ
Heat Cycle in air	63 cycles: 5h/3h	passed
Heat Cycle in water	63 cycles: 5h/3h	passed
AC Voltage Withstand Test in water	4kV AC/ 1 min	passed
Insulation Resistance Test in water	1kV DC	> 10.000MΩ

#### Storage

3M™ Scotchcast™ Resin 40 has a shelf life of at least 36 months when stored between 10°C and 40°C with a humidity level < 75 % in the originally sealed bag.

The expiration date of each product appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, it is the responsibility of the user to determine applicability of the resin.

### **Safety and Handling**

3M provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information. 3M strongly encourages its customers to review the MSDS on its products prior to their use.

### **Product Stewardship**

3M has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis of our philosophy and policies by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee, the public health and the environment.

### **Customer Notice**

3M encourages its customers and potential users of 3M products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that 3M products are not used in ways for which they were not intended or tested. 3M personnel are available to assist customers in dealing with ecological and product safety considerations.

### **Regulatory Status**

3M™ Scotchcast™ LVI-2/x-PTU series, and Scotchcast™ 40W are compliant with EU regulation 1907/2007/EC (REACH)

**Important Notice:** Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

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