

**3M** Scotchcast™



**RoHS**  
2002/95/EC  
**REACH**  
1907/2007/EC

## LVI-1/x Series Inline Resin Joint Kit with Resin 470W

### Application

3M Scotchcast™ resin joint kits LVI-1/x are designed to be used for multi core armoured polymeric low voltage energy cables. 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. The LVI-1/x joints are also suitable for transition jointing with the use of additional components.

### Features

- Resin 470W in transparent two chamber bags with integrated Closed Mixing and Pouring (CMP) system.
- One part translucent 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

- Translucent mould body with closure cap
- Scotchcast™ 470W resin bag with CMP
- Pre-cut sealing elements
- Scotch™ 23 Tape
- Armour connection components
- Connectors (sizes 2 and 3 only)
- Detailed instruction

### Product Description

3M™ Scotchcast™ LVI-1/x resin inline joint kit will be delivered with a one part translucent mould body for simple and easy handling. Distances inside the body can be checked easily. All necessary dimensions, like 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 470W is delivered in two chamber bag with integrated spout and aluminium Guard Bag 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

CSA (mm <sup>2</sup> )	Kit Reference			
	1 Core	2 Core	3 Core	4 Core
1.5	-	LVI-1/2	LVI-1/2	LVI-1/2
2.5	-	LVI-1/2	LVI-1/2	LVI-1/2
4	-	LVI-1/2	LVI-1/2	LVI-1/2
6	-	LVI-1/2	LVI-1/2	LVI-1/2
10	-	LVI-1/3	LVI-1/3	LVI-1/3
16	-	LVI-1/3	LVI-1/4	LVI-1/4
25	-	LVI-1/3	LVI-1/4	LVI-1/4
35	-	LVI-1/4	LVI-1/5	LVI-1/5
50	LVI-1/3	LVI-1/5	LVI-1/5	LVI-1/5
70	LVI-1/3	LVI-1/5	LVI-1/6	LVI-1/6
95	LVI-1/4	LVI-1/6	LVI-1/6	LVI-1/7
120	LVI-1/4	LVI-1/6	LVI-1/7	LVI-1/7
150	LVI-1/4	LVI-1/6	LVI-1/7	LVI-1/7
185	LVI-1/5	LVI-1/7	LVI-1/7	LVI-1/8
240	LVI-1/5	LVI-1/7	LVI-1/8	LVI-1/8
300	LVI-1/6	LVI-1/8	LVI-1/8	LVI-1/8
400	LVI-1/6	LVI-1/8	LVI-1/8	-
500	LVI-1/7	-	-	-
630	LVI-1/7	-	-	-
800	LVI-1/7	-	-	-

## Testing

Scotchcast™ Resin Kit Series LVI-1/x was tested according EN50393 Table 3 / I / A1

Type of Test according to EN50393 Table 3 / I / A1	Results
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 470W 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. Your 3M sales representative can arrange for the proper contacts.

## **Regulatory Status**

The 470W Resin is in compliance with all European directives and regulations, relevant for this product; EU directive 2002/95/EC (RoHS) and EU regulation 1907/2007/EC (REACH)

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