3M Scotchcast™

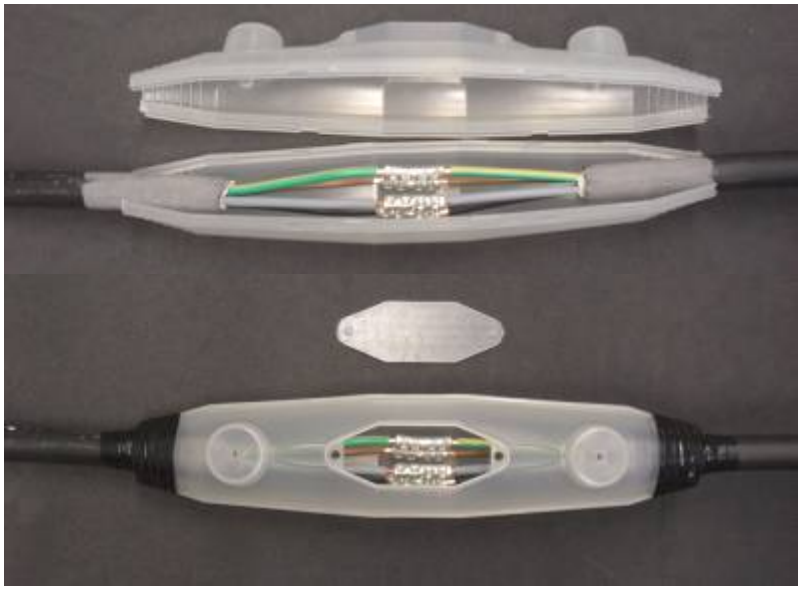
LVI-0/x Series Inline Resin Joint Kit with Resin 470W

Application

3M Scotchcast™ resin joint kits LVI-0/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.

Features

- Resin 470W in transparent two chamber bags for mixing
- Two part translucent Mould Body with closing system for quick and easy handling.
- Closure cap to prevent any pollution.



Kit content

- Mould body with closure cap
- Scotchcast™ 470W resin bag
- Scotch™ 23 Tape
- Armour connection components
- Disposable gloves (EN394)
- Detailed installation instruction

Product Description

3M™ Scotchcast™ resin inline joint kit will be delivered with a two part translucent mould body for simple and easy handling. The Mould Body can be adapted to the required cable diameter by cutting the marked areas of the Mould.
The resin 470W is delivered in a two chamber bag and aluminium Guard Bag for protection against humidity. 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 bag has to be cut open.

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To provide resin handling without any skin contact, disposable gloves meeting EN394 are provided with the kit. 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 (mm²)	Kit Reference			
	1 Core	2 Core	3 Core	4 Core
1.5	-	LVI-0/1	LVI-0/1	LVI-0/1
2.5	-	LVI-0/1	LVI-0/1	LVI-0/1
4	-	LVI-0/1	LVI-0/1	LVI-0/2
6	-	LVI-0/2	LVI-0/2	LVI-0/2
10	-	LVI-0/2	LVI-0/2	LVI-0/2
16	LVI-0/2	LVI-0/2	LVI-0/3	LVI-0/3
25	LVI-0/2	LVI-0/2	LVI-0/3	LVI-0/4
35	LVI-0/2	LVI-0/3	LVI-0/4	LVI-0/4
50	LVI-0/2	LVI-0/3	LVI-0/4	LVI-0/4
70	LVI-0/2	LVI-0/4	-	-
95	LVI-0/2	LVI-0/4	-	-
120	LVI-0/3	-	-	-
150	LVI-0/3	-	-	-
185	LVI-0/3	-	-	-
240	LVI-0/4	-	-	-
300	LVI-0/4	-	-	-
400	LVI-0/4	-	-	-

Testing

Scotchcast™ Resin Kit Series LVI-0 were tested according to 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

Usage Information

The resin is supplied, in two-chamber plastic pouches with peelable barrier in the correct stoichiometric proportion. This type of packaging will assure the correct mixing ratio for applying the resin. The packaging includes a Closed Mix System.
For other information, relevant for the usage of the resin, like Gel-Time, Pot-Life, viscosity, density etc. please refer to the data sheet for Scotchcast™ 470W Resin

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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 EU regulation 1907/2007/EC (REACH)

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