

3M Scotchcast™

Resin Kits 92-NBA 0 up to 92-NBA 7 Inline Joint Kit Series with Resin 40G

Application

3M™ Scotchcast™ resin joint kits 92-NBA x are designed to be used for 1-core up to 5-core non shielded, polymeric, low voltage energy cables. The application incorporates electrical insulation and mechanical protection of joints with compression or mechanical connectors. They can be used for indoor and outdoor, underground and submerged applications. These joints are also suitable for Single Core Airfield Ground Lighting Cables rated to 6kV with the use of additional components.

Features

- Resin 40G in transparent two chamber bags with integrated Closed Mixing and Pouring (CMP) system.
- One part Mould Body with Snap Fit closing system for quick and easy handling.
- Transparent Mould Body for easy control of connector distances in the joint.
- Snap in 5-core spacer to ensure the distance between connectors.
- 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™ 40G Resin bag with CMP
- Pre-cut sealing elements
- Snap in 5-core spacer
- Abrasive sponge
- Detailed instruction

Product Description

3M™ Scotchcast™ 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, 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.

A snap in spacer ensures the minimum required distance to each connector. It can be applied for 3-core up to 5-core cables.

The resin 40G 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 was 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 pierced to enable the resin to be poured.

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 (Standard Application)

KIT REFERENCE	CROSS SECTIONAL AREA (mm ²)				CABLE OD (MM)
	Single Core	Two Core	Three Core	Four Core	
92-NBA0	1.5 - 50	1.5 - 6	1.5 - 6	1.5 - 4	6 - 16
92-NBA1	70 - 120	10 - 16	10 - 16	6 - 10	10 - 22
92-NBA2	N/A	N/A	N/A	6 - 16	12 - 25
92-NBA3	150 - 240	25 - 35	25 - 50	16 - 35	13 - 32
92-NBA4	300 - 400	N/A	70	50	18 - 36
92-NBA5	500 - 630	N/A	95 - 120	70 - 95	19 - 45
92-NBA6	N/A	N/A	150	120 - 150	27 - 54
92-NBA7	N/A	N/A	185 - 240	195 - 240	29 - 64

Product Selection (Airfield Ground Lighting) for 3.6/6(7.2)kV

KIT REFERENCE	CABLE OD (mm)		Additional Components Required
	Min	Max	
92-NBA3	13	32	1 Roll 23 tape 19mm
92-NBA5	19	45	1 Roll 23 tape 19mm

Testing

The full Scotchcast™ Resin Kit Series 92-NBA 0 up to 92-NBA 7 were 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 40G 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 the 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 40G Resin is in compliance with EU regulation 1907/2007/EC (REACH)

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