

Scotchcast[™] Resin Kits 92-NBA 1C GS up to 92-NBA 3C GS

Inline Joint Kit Series with Resin 4 GS





1. Product Description

 $3M^{TM}$ Scotchcast TM resin joint kits 92-NBA xC GS are designed to be used for 1-core up to 5-core non shielded, polymeric, low voltage energy cables up to 0.6/1.0(1.2) kV.

92-NBA x GS kit series include the ScotchcastTM 4GS Epoxy resin with Colour mixing indicator, delivered in two chamber plastic pouch with integrated spout and aluminium Guard Bag for protection against humidity. The kits further include a one part transparent mould body for easy handling and a 5-core Connector block with integrated mechanical connectors.

2. Applications

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.

3M Deutschland GmbH Carl-Schurz-Str.1 41453 Neuss Germany Reference: AABBDD59583#EN_03

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3. Typical Properties

3.1 Rated Voltage U₀/U(U_{max})

0,6/1(1,2) kV

3.2 Type Test

The Scotchcast[™] resin joint kits 92-NBA 1C GS to 92-NBA 3C GS passed the Type Test according to EN 50393 Table 3: Type I Joint, Sequence A1

4. User Information

4.1 Features

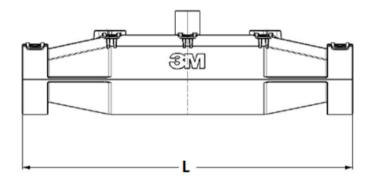
- Resin 4GS in transparent two chamber plastic pouch with integrated Closed Mixing and Pouring (CMP) system.
- CMR-, Isocyanate-, Halogen- and SVHC- free, REACH and RoHS compliant resin formulation with Colour mixing indicator.
- Strong adhesion of resin to metals and different plastics.
- · Enhanced water and humidity resistance during resin curing.
- · Great resistance of resin to humidity whilst in storage.
- Operating Temperature: -40 °C to +110 °C Continuous use, 130 °C overload.
- One part transparent Mould Body with Snap Fit closing system for quick and easy handling.
- 5-core Connector block with integrated mechanical connectors provides wide application range and self-evident all the needed distances in the joint. The enclosed Allan key requires no special tooling for the connection.
- Pre-cut foam sealing elements to provide reliable sealing to the Mould Body without tooling for all cable application diameters.
- · Abrasive sponge to clean and roughen the cable jacket.
- · Closure cap to prevent any pollution.
- · Detailed instruction drawings.

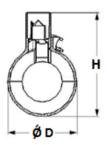
4.2 Selection Guide

Application Range [mm ²]								
Body Size		Ø mm						
	4 x	5 x						
92-NBA 1C	1.5 - 6	1.5 - 6	10 - 22					
92-NBA 3C	1.5 - 16	1.5 - 16	10 - 32					

4.3 Dimensions and Resin Volumes

Body	Length	Diameter		Type of	Resin	Number of
size	L [mm]	D (mm)	H [mm]	Resin	Identification	Resin Bags
NBA 1C	178	36	69	Ероху	Scotchcast 4GS	1 x 135ml
NBA 3C	270	55	85	Ероху	Scotchcast 4GS	1 x 370ml





4.4 Handling

Keep resin bags at 10° C or warmer before mixing. In cooler ambient conditions keep resin bags in warmer area until ready to mix.

The resin is delivered in a two chamber pouch 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 opening the seam of the two chamber pouch, the two resin components can be mixed. Sufficient mixing is indicated by the resin turning to a homogenous green colour (changing to darker green when fully cured). Note that colour gradation can change depending on storage conditions and application temperature.

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Issue date: 10.06.2020 Supersedes: 2018-04-18 To pour the resin into the mould body, connect the spout with the dome turning it by 180° in order to open the membrane.

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

The delivered two foam sealing elements can be adapted to the required cable diameter by removing the pre-cut adapter rings.

A 5-core Connector Block with integrated mechanical connectors provides wide application range and self-evident all the needed distances in the joint. The enclosed allan key requires no special tooling for the connection. It can be applied for 1-core up to 5-core cables.

For protection against pollution, apply the closure cap onto the dome.

After curing, the remaining resin in the pouch can be disposed as house waste. For other information, relevant for the usage of the resin, like Gel-Time, Pot-Life, viscosity, density etc. please see the relevant resin data sheet.

4.5 Shelf Life and Storage

3M™ Scotchcast™ Resin 4GS Resin has a 36 month shelf life from date of production when stored between 5°C and 40°C and < 75% relative humidity in the originally sealed Guard Bag. The expiring date is stated on the Guard Bag and on the carton label. Storage at elevated temperatures can result in bleaching of the blue colorant and deviations of the mixed color gradation from the color code printed on the packaging. This has no influence on all other resin characteristics. 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.

5. Additional Information

To request additional product information, see address below.

Important Notice

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