

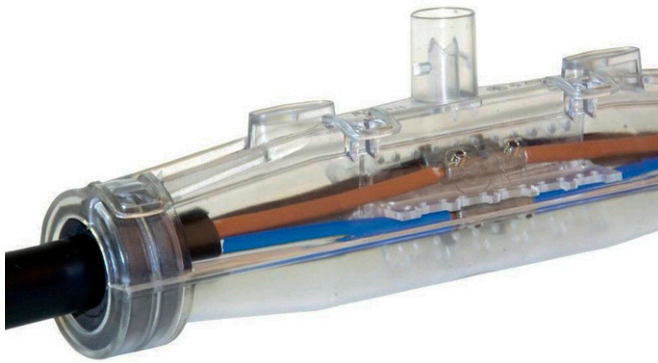
CABLE CONNECTIONS

Cable splicing kits

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German Cathodic Protection



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.

Type of kit	Cable outside diameter	Max. cable cross section mm ²	Resin type no.	Dimensions mm	
				Ø	Length
92-NBA-0	4-16 mm	4 x 4	40G	32	148
92-NBA-1	10-22 mm	4 x 10	40G	36	178
92-NBA-2	12-25 mm	4 x 16	40G	38	230
92-NBA-3	13-32 mm	4 x 25	40G	55	270
92-NBA-4	18-36 mm	4 x 50	40G	63	319
92-NBA-5	19-45 mm	4 x 95	40G	76	369
92-NBA-6	27-54 mm	4 x 120	40G	101	479
92-NBA-7	29-64 mm	4 x 240	40G	130	643

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 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.

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

Conductor connectors must be ordered separately.

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

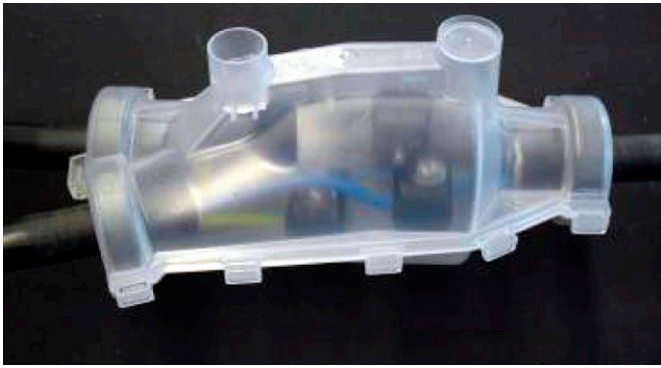
CABLE CONNECTIONS

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German Cathodic Protection



Resin Kits 92-NBB 0 up to 92-NBB 2 Y-Branch Kit Series with Resin 40

Application

3M™ Scotchcast™ resin joint kits 92-NBB 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.

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.

Product Description

3M™ Scotchcast™ resin Y-Branch joint kit will be delivered with two part (upper and lower) transparent mould shelves 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 three foam sealing elements can be adapted to the required cable diameter by removing the pre-cut adapter rings.

The resin 40 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 does provide 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 shall be connected with the dome by turning for 180°. While turning, the membrane is cut open to pour the resin.

The Closed Mixing and Pouring System does provide 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 house waste.

Kit content

- Two part (upper and lower) transparent mould shelves with closure cap
- Scotchcast™ 40G Resin bag with CMP
- Pre-cut sealing elements
- Snap in 5-core spacer
- Abrasive sponge
- Detailed instruction

Conductor connectors must be ordered separately.

Testing

The full Scotchcast™ Resin Kit Series 92-NBB 0 up to 92-NBB 2 were tested according EN50393 Table 3 / I / B1

Type of Test according to EN50393 Table 3 / I / B1	Results
AC Voltage Withstand Test in air	4kV AC/ 1 min
Insulation Resistance Test in air	1kV DC
Heat Cycle in air	63 cycles: 5h/3h
Heat Cycle in water	63 cycles: 5h/3h
AC Voltage Withstand Test in water	4kV AC/ 1 min
Insulation Resistance Test in water	1kV DC

Application Range [mm ²]					
Body Size	4 x		5 x		Ø mm
	1.5 - 4	1.5 - 4	-	-	
92-NBB 0	1.5 - 4	1.5 - 4	-	-	9 - 18
92-NBB 1	2.5 - 16	2.5 - 16	1.5 - 10	1.5 - 10	11 - 23
92-NBB 2	4 - 35	4 - 25	2.5 - 25	2.5 - 25	16 - 33