

### Resin Joints for Polymeric Insulated Cables up to 1kV

**BV**

#### BV Joints

Raychem BV Joint kits are the premium Low Voltage resin joint offering which utilize impact resistant polycarbonate joint shells, a volume appropriate satchel of two-part GUROFLEX resin in a double-chamber pack for enclosed mixing, abrasive cloth tape, polymer foam seals to match cable diameter, and a picture-based installation instruction. This premium offering includes optional straight connector terminal blocks tested according to VDE 0220.

#### Simple installation

Installation is straightforward. The impact resistant joint shells are fitted with polymer foam seal to self-match the cable diameter; the cable ends are prepared according to the instruction pictures; conductor connectors are fitted; the joint shell is snapped closed over the connection; the filler material is mixed and poured. The cable can be energised immediately after installation.

#### Proven performance

The BV straight joints have been fully type tested to CENELEC HD 623.

#### GUROFLEX

GUROFLEX is an environmentally friendly, easy to handle, two-component, cold casting material based on hydrocarbons.

Due to its elasticity, it is well-suited to accommodate thermal expansion of insulated cables, thereby preventing tears, breaks and cracks that could permit water ingress.

It is an excellent insulating material with water-repellent properties.

It covers and adheres to metal components and protects them from corrosion.

#### What is GUROFLEX made of?

GUROFLEX is a hydrocarbon resin. One of the outstanding advantages of this kind of resin is that it does not contribute to environmental

problems owing to its non-toxic and non-hazardous nature.

It is not subject to any safety classification during use, transportation, or after its shelf life has expired. No special protective measures are required during handling.

Hydrocarbon resins are generally known for their low water absorption, excellent electrical insulation properties and high elasticity over a wide temperature range.

#### How is GUROFLEX used?

Preparation of GUROFLEX takes place immediately before casting. The two components are mixed either in a double chamber bag or in a can, and then the cross-linking process starts.

Unlike other chemical processes, this process produces no heat during the cross-linking reaction, thus avoiding splitting or cracking caused by shrinkage of the setting material.

Due to its soft-elastic consistency, GUROFLEX is re-enterable.

It is also able to accommodate various coefficients of expansion of the joint components without splitting or cracking.

#### Why is GUROFLEX unique?

Compared with other resin types such as polyurethane and epoxy systems, GUROFLEX is easy to process and has outstanding properties; it is environmentally friendly, non-hazardous and generates no heat during curing.

Furthermore, GUROFLEX is resistant to low temperatures and can be stored at temperatures as low as -20°C.

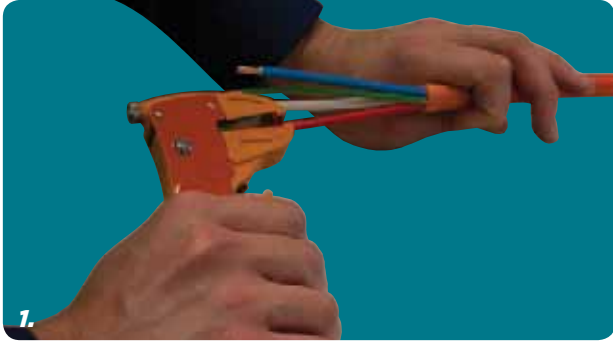
Processing is possible at temperatures as low as -10°C. Its low water absorption makes GUROFLEX moisture-resistant during curing and avoids the formation of foam or bubbles when it comes in contact with water.



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Fax: 03 9312 6433  
Email: sales@gvk.com.au



Strip cable and filling material, strip and clean cable wires.



Connect wires with pillar terminals of terminal block or with junction terminals.



Put the lower joint sleeve symmetrically under the cable junction. Place the upper joint sleeve on the lower joint sleeve and close by snapping.



Place filler funnel on the filler-hole.



Cast the cable joint according to casting instructions.



Cover the filler funnel with closing plug.

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## PXE RAPID 4300

Catalogue Reference	Cable Conductor Size - Max (mm <sup>2</sup> )		Cable Entry Dia. (mm)
	2 & 3 Core	4 Core	
PXE-SU1-AU	10	6	6 - 19
PXE-SU2-AU	25	10	6 - 27
PXE-SU3-AU	35	16	14 - 34
PXE-SU4-AU	50	25	16 - 37
PXE-SU5-AU	70	50	20 - 44
PXE-SU6-AU	120	95	26 - 52
PXE-SU7-AU	185	150	35 - 67

## PXE RAPID 6000

Catalogue Reference	Cable Conductor Size - Max (mm <sup>2</sup> )		Cable Entry Dia. (mm)
	2 & 3 Core	4 Core	
PXE-SU1-60-AU	10	6	6 - 19
PXE-SU2-60-AU	25	10	6 - 27
PXE-SU3-60-AU	35	16	14 - 34
PXE-SU4-60-AU	50	25	16 - 37
PXE-SU5-60-AU	70	50	20 - 44
PXE-SU6-60-AU	120	95	26 - 52
PXE-SU7-60-AU	185	150	35 - 67

## BV GUROFLEX

Catalogue Reference	With Connector	Cable Diameter	Cross Section	Joint	
		(mm)	(mm <sup>2</sup> )	L	D
BV-0-GD-AU	No	13 - 20	5 x 1.5 - 6	220	73
BV-0-GD-KS0-AU	Yes	13 - 20	5 x 1.5 - 6	220	73
BV-1-GD-AU	No	16 - 25	5 x 6 - 16	230	80
BV-1-GD-KS1-AU	Yes	16 - 25	5 x 6 - 16	230	80
BV-2-GD-AU	No	21 - 30	4 x 16 - 25	270	90
BV-2-GD-KS2-AU	Yes	21 - 30	4 x 16 - 25	270	90

## VMY/VMP GUROFLEX (for larger applications)

Catalogue Reference	With Connector	Cable Diameter	Cross Section	Joint	
		(mm)	(mm <sup>2</sup> )	L	D
VMY-405-GD	No	25 - 40	4 x 25 - 70	405	122
VMP-600-GD	No	30 - 52	4 x 35 - 185	600	163
VMY-950-GC-1500	No	44 - 76	4 x 150 - 400	950	190

L: Overall length of the housing  
D: Overall diameter of the housing

## Merchandise Packaging

The PXE and BV resin types are now available in merchandise packaging. The new packaging provides all the information the customer needs to pick the correct kit for their application as well as all the applicable safety advice.



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**G.V.KINSMAN PTY. LTD.**

*www.gvk.com.au*

Phone: 03 9312 6633  
Fax: 03 9312 6433  
Email: sales@gvk.com.au

## FOR MORE INFORMATION

### TE Customer Service Specialists

NSW: +61 (2) 9554 2694  
QLD: +61 (2) 9554 2627  
VIC/TAS/SA/NT: +61 (3) 8562 7966  
WA: +61 (8) 9358 7805  
New Zealand: +64 (9) 634 4580

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