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Energy T &
D

Transformers

Infocom

Oil , Water & Gas

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The Company Raychem RPG was incorporated in 1989.

Raychem RPG is a **50 : 50 Joint Venture between TE Co** U.S.A and **RPG Enterprises**, India.

TE Connectivity is a US\$ 13 billion global provider of engineering components for thousands of consumer and industrial product solutions and systems for telecommunications and energy wireless systems for critical communications, radar and applications. They design, manufacture and market products for industries ranging from automotive, appliance, aerospace to telecommunications, computers and consumer electronics.

RPG Enterprises, established in 1979, is one of India's fastest **13,000 crore**. The group has more than fifteen companies in Tyre, Infrastructure, IT, and Speciality.

Business

Raychem RPG is involved in engineering products and services catering to the infrastructure segments of the economy.

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» Power

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» Telecommunications

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» Hydro Carbon

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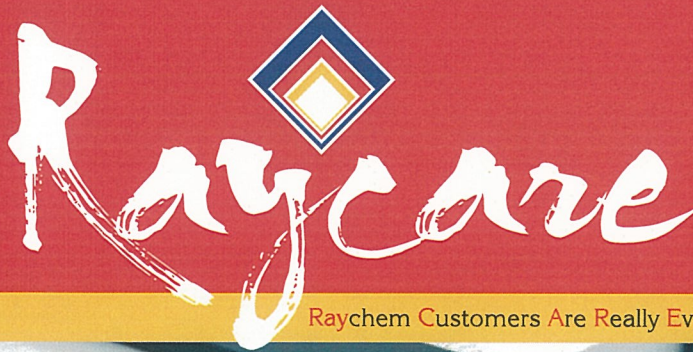
Email: raychem@raychemrpg.com

Operations

[→ Chakan](#)[→ Halol](#)[→ Kaman](#)[→ Nalagarh](#)[→ Vasai-EOU](#)

Sales

[→ Ah](#)[→ Ba](#)[→ Ch](#)[→ Ne](#)[→ Hy](#)[→ Kc](#)[→ Th](#)[→ Th](#)[Privacy Policy](#)

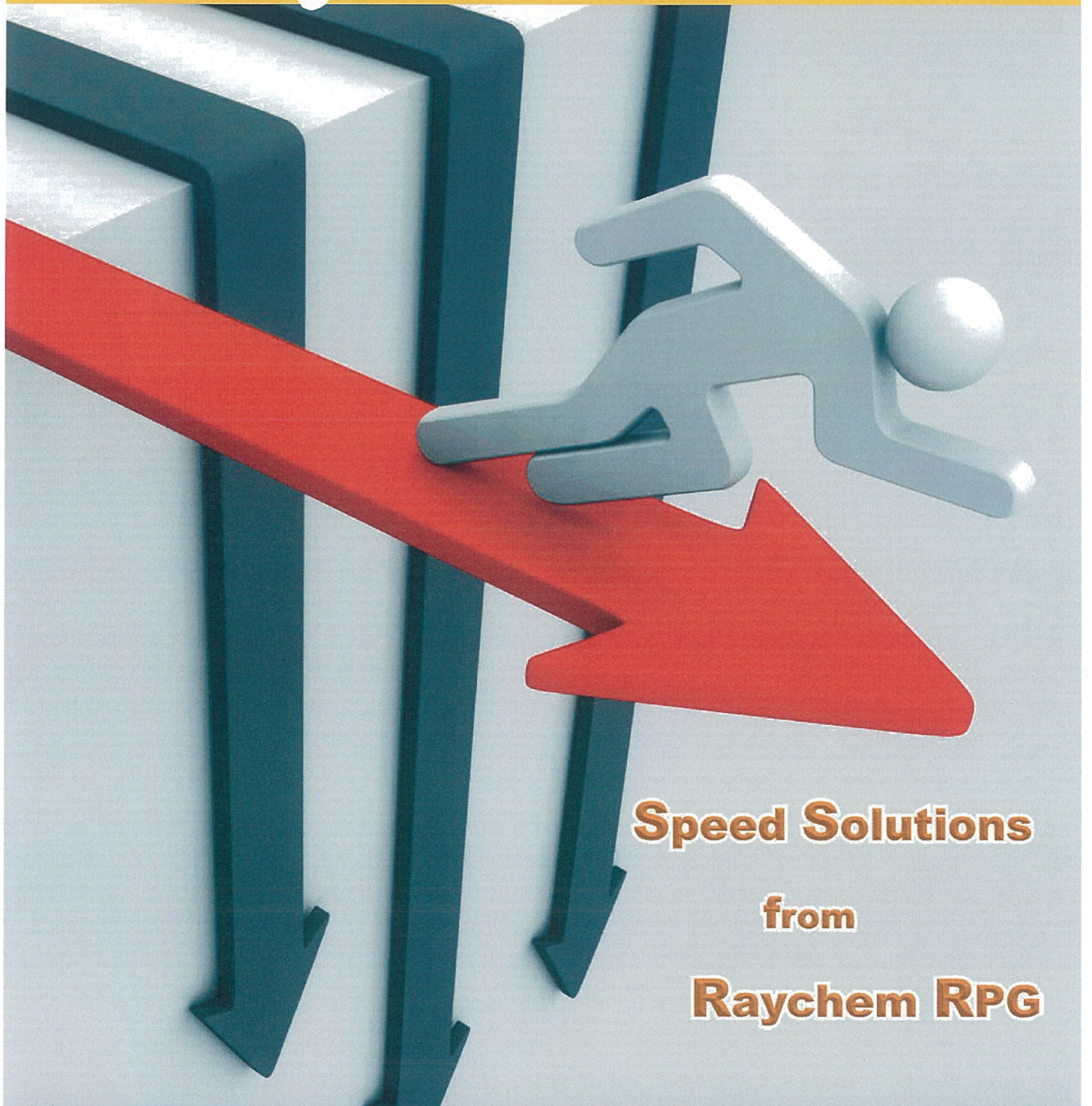


Newsletter of

Raychem RPG 
(A TE Connectivity - RPG Enterprises JV)

Raychem Customers Are Really Everything

July 2012



Speed Solutions
from
Raychem RPG





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Dear Friends,

At the outset, let me take this opportunity to inform all of you that for a record fifth year, in a row, we have won the RPG Organizational Excellence Award! I am very proud of this achievement and thank all our team members and esteemed customers who helped us on this journey!

We have now completed the first quarter of FY 13. This has been quite a satisfying period for us at Raychem RPG as our performance, on both sales and profit, were better than our estimates. One of the main reasons was the rupee-dollar parity which worked in our favour, as we are net exporters. Secondly, we started the year with a relatively strong order book in most of our businesses. Having said that, the picture is not as rosy as it seems, when I look at the prospects of last two quarters. The reason I am saying this is due to the fact that there is distinct weakening in the business sentiment in the last few months, resulting in a less than expected order booking position.

The continued impasse on the economic reforms and policy decisions combined with huge supply side constraints with respect to the Power Sector, where most of our products go, does not augur too well. The delayed monsoons is adding to the worries, and unless the Government takes a few bold steps to rev up the economy in the next few weeks, I am skeptical about India reaching 7 % GDP growth in this fiscal.

Our efforts to partly offset the above mentioned risks through new product introductions and exploring newer geographies to pitch in our products is gaining traction. I am quite excited at these opportunities which I am confident will help us meet our budgets for the year. Our continued thrust on Manufacturing Excellence is making significant progress in our newest facility at Halol, Gujarat, and we hope to challenge the TPM Level I Award for this site in the next 15 months!

I am confident that the entire team at Raychem RPG is channeling all their efforts to maximize customer satisfaction and would like to, once again, thank all our stakeholders for their continued support and cooperation.

Wishing every one the very best for the next quarter.

Thanks and warm regards,

Ramani Kasi
President

Raychem RPG's USP is its continual ability to offer customized solutions in the form of products and services to customers in all its business domains.

We take this opportunity of introducing several products recently launched by our various business units. Moreover, there is a conscious effort at Raychem RPG in making products environmental friendly, as well as, reducing the carbon foot prints.

Guroflex MV

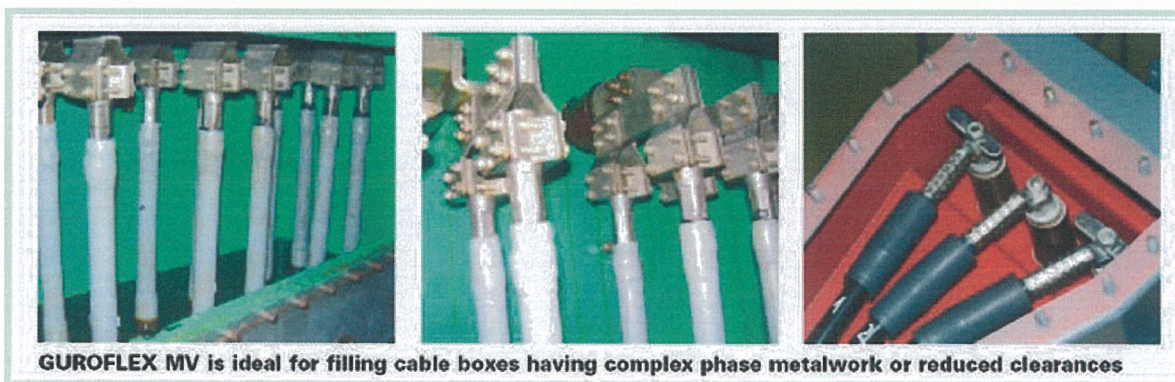
Cold-Pour Insulating Compound
for Medium Voltage Applications



TE Rapid and Guroflex product range includes two-component casting materials for insulation of electrical connections. Rapid materials are elastic polyurethane-type resins with a well proven record as the primary insulation of low and medium voltage cable joints. Guroflex compounds are based on hydrocarbon resins and are **non-hazardous and environmentally friendly**. Both product families are used in low and medium voltage joints, cable termination boxes and other electrical power equipment, where bulk insulation of electrical connections is needed.

Features

- ▶ Cold Pour – safe to use
- ▶ No Hazard classification – environmentally friendly
- ▶ Immediate energization
- ▶ Insensitive to ambient temperature
- ▶ Substitute for bitumen or other insulating oil
- ▶ No heat involved and curing compound does not generate heat
- ▶ Thoroughly tested to international performance standards



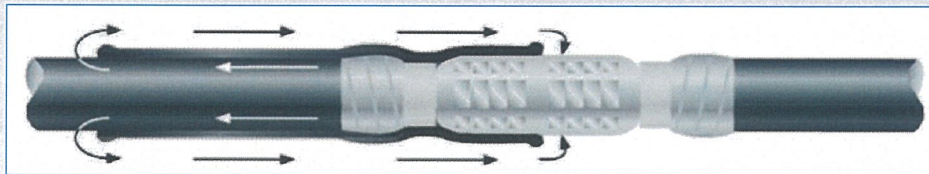
GUROFLEX MV is ideal for filling cable boxes having complex phase metalwork or reduced clearances

For more details of these products, please write to us:
raychem@raychemrpg.com

Raychem Rayvolve RVS Low Voltage Cable Connection Kits

Raychem Rayvolve RVS kits are the easy, "roll-on" way to insulate and seal cable connections up to 1.1 kV.

The gripping force of the specially formulated EPDM elastomer combined with a high-performance sealant, forms a reliable, water-resistant, insulating sleeve that is UL listed and CSA certified for direct burial applications.



Features

- Easy and tool free cold applied installation (vertical and horizontal both)
- Less craft sensitive
- Dual wall with entrapped lubricant
- Work in extreme climatic conditions
- UV resistant
- No gas torch or toxic compound involved – immediate energization

Switchboard Components

To broaden the scope of business with OEMs, Raychem RPG goes beyond manufacturing Busbars and CTPT in developing Switchboard Components.

Functioning of the contact assembly is very critical for switchboard application. The assembly includes precise machining processes like grooving, punching, dimple formation, where accuracy is very important and load on each finger adjustment is a critical parameter.

These products are used in medium voltage switchboard panels and made from ETP Copper, Copper Alloys and Aluminium. They are plated with tin, silver and other metals upto 30 microns.



Contact Assembly

Machined Contacts

Connector - A way to Save Power

The Indian Electrical Industry uses Aluminium/AAAC/ACSR, as well as, Copper conductors/cables. Electrical Connectors are required to control power losses in electrical systems.

Power loss is directly proportional to temperature rise at connection and temperature rise is dependent on materials to be connected and contact surface areas.

Copper and Aluminium have different thermal expansion coefficient and electrical conductivity. If we use aluminium connector for Bi-metallic application, it will have bimetallic corrosion / ageing effect during continuous usage (aluminium connected directly onto copper). Temperature rise at connections will go beyond acceptable limits. Also, Aluminium Connector will have undesirable melting effect or hot spots and this will cause connection failure at the end.

Hence it is very essential to select right connector while connecting Cu-Al or Al-Cu.

Raychem RPG offers complete Connector Solutions.

1. Bi-metallic Connectors : Al-Cu
2. Mechanical Connectors (with removable feature) : Cu-Cu, Al-Al, Cu-Al, Al-Cu

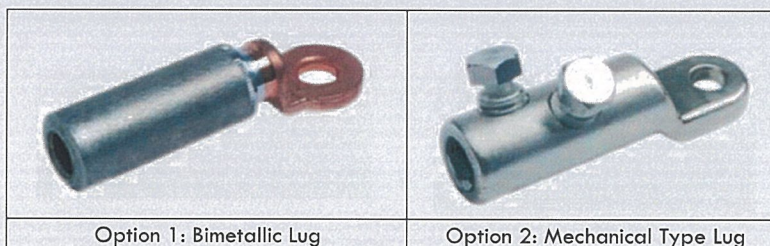
This can be further explained by citing the following examples.

Situation 1: Aluminium cable to be terminated onto Copper busbar or Transformer terminals made out of Copper Alloy (Brass)

Product Recommended:

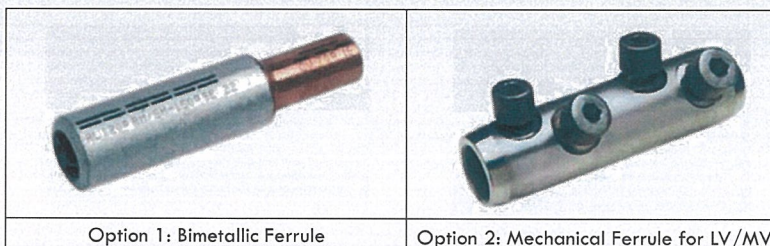
Option 1: Use Bimetallic Lug which is having Aluminium Barrel and Copper Palm. This product is made with friction welding process under controlled conditions. These connectors are crimped and will not have removable/reusable feature. Installation of these connectors will require crimping tools and dies.

Option 2: Use mechanical lug which is made out of solid aluminium alloy bar. At the surface finishing stage, it will have special Copper Plating + Tinning which make these connectors compatible to use with Copper, as well as, Aluminium Conductors. These connectors are provided with shear head breaking feature and does not require special tools. These connectors can be provided with removable feature.



Situation 2: Copper Cable to be joined (In-line) with Aluminium Cable.

Product Recommended:



Due to right choice of connector in bi-metallic application, we also minimize contact resistance, hence no undesirable temperature rise. After selecting the right connector, it's proper installation (as per instruction sheet) is also an important factor to achieve the desired life cycle.

Mechanical Connectors have following advantages over crimped bi-metallic connectors:

- Simple Installation by using ratchet spanner
- No crimping tool & dies required
- Accommodate copper, as well as, Aluminium
- Inventory reduction

It makes it the right choice!

Transformers

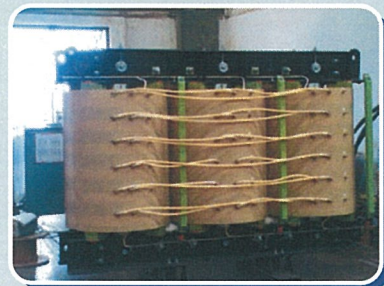
Gen IIIE 4 MVA Perfect Harmony VPI Transformer

Till date, it is the Highest Rating of VPI (Vacuum Pressure Impregnated) dry type transformer developed by Raychem RPG. They are used for giving Power to Electronic Drives for Large Industrial Motors.

Presently this transformer has been developed for Siemens India. The product has successfully passed the temperature rise test alongwith Drive circuite at Siemens site.

Earlier, similar transformers were imported by Siemens from Canada and USA. .

With this success, Raychem RPG has established its position in the market for supplying large VIP Transformers.



ACS-5000-4.5 MVA & 3 MVA Converter Transformer

The success of developing new transformers for Siemens has given Raychem RPG the weightage for developing another new type Transformer for ABB, India who are also manufacturing Electronic Drives for Large Industrial Motors.

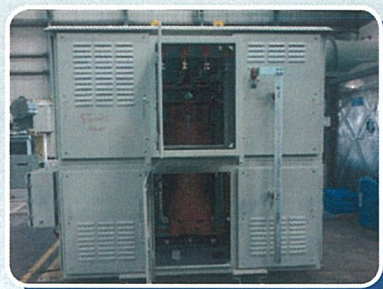
These types of transformers are with Earth Shield between LV & HV Coils.

Earlier, the customer was sourcing similar transformers from ABB, Sweden.

One more feather in the cap!

8MVA Auto Transformer – Dry Type VPI

It is a special testing transformer developed for Siemens, India. This transformer is developed with multi voltages and currents, and is unique and one of its kind.



60 KVA VPI Dry Type Transformer

We have developed 60 KVA Dry type VPI Transformer for Indian Railways.

This transformer is mounted below the Rail coach for power supply to Air-Conditioning and Lighting Circuit Systems.

Oil Filled Scott-T Transformer

In continuation of Raychem RPG's development of Scott-T Transformer, more such transformers have been developed with improved modifications over the earlier design.

With pride, we would like to reiterate that Raychem RPG is the only manufacturer in India for this type of transformer.

