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Raychem RPG (P) Ltd. was incorporated in 1989. It is a 50:50 Joint Venture between TE Connectivity, U.S.A. (formerly Tyco Electronics) and RPG Enterprises, India.

TE Connectivity Ltd is a US$ 14 Billion global technology and manufacturing leader creating a safer, sustainable, productive, and connected future. For over 75 years, our connectivity and sensor solutions, proven in the harshest environments, have enabled advancements in transportation, industrial applications, medical technology, energy, data communications, and the home. With 80,000 employees, including more than 8,000 engineers, working alongside customers in approximately 140 countries, TE ensures that EVERY CONNECTION COUNTS.

Established in 1979, RPG Group is one of India’s fastest growing business groups with a turnover of US$ 4 Billion. The group has diverse business interests in the areas of Infrastructure, Tyres, Pharma, IT and Specialty, as well as, in emerging innovation led technology businesses. Founded by Dr. R. P. Goenka, the group’s lineage dates to the early 19th century. Today, the group has several companies in diverse sectors predominantly CEAT, Zensar Technologies, KEC International and RPG Life Sciences. Built on a solid foundation of TRUST and TRADITION, the RPG name is synonymous with steady growth and high standards of transparency, ethics and governance.

Based on the foundation of trust and tradition, Raychem RPG is involved in engineering solutions and services. Pioneering in smart products and technologies, the company caters to infrastructure industries such as Power and Hydrocarbon. Raychem is organized around four Strategic Business Units (SBUs) to fulfill the demands of customers from domestic, as well as, global markets.

• Energy Products  •  Transformers  •  Oil & Gas  •  International (Exports)
MORE POWER TO YOU

RELIABLE CONNECTIONS: Ensuring reliability of electrical networks and equipment.

ASSET & PERSONAL PROTECTION: Providing polymer based insulation enhancement and protection systems.

THEFT & LOSS REDUCTION: Helping utility companies in bringing down losses significantly.

ENERGY STORAGE: Disruptive technology designed to increase the ROI on investment, the company is positioned to be No.1 end-to-end solutions provider in India.

PERSONAL PROTECTION SOLUTIONS: Head-to-Toe in Electrical Safety.

POWER SERVICES: Providing end-to-end customized solutions for optimizing the electrical network and equipment.

CUSTOMER SEGMENTS

Industries
Renewable Energy
Utilities
Railways
A reliable power supply network has many factors that govern its efficiency. Some of the more significant ones include the cable accessories, as well as, the connectors and fittings. These accessories must have the qualities to withstand a wide range of conditions ranging from the ideal ones to those that can be categorized as extreme conditions. The cable accessories, connectors and fittings from Raychem RPG are developed keeping these facts in mind.
Cable Accessories

Designed for reliability and service life even in environmental extremes, Raychem’s comprehensive range of cable accessories help maintain service reliability in both overhead and underground installations. That’s why the most innovative utilities and industries around the world, including underground, substations, offshore, nuclear and renewable have relied on Raychem power cable accessories for over 60 years. Our history of innovation, legacy of reliable products and decades of experience enable powerful connections for electrical networks and the people who make them.

- Power Cable Joints & Terminations up to 245kV
- Switchgear & Motor Connection System
- RSTI/ELBC for Ringmain Units
- RPIT for GIS Switchgear
- Link Boxes & Sheath Voltage Limiters
- Cable End Caps
- Cable Entry Sealing System
- Cable Sealing Glands
- Cable Repair Kits, Ties and Cleats
- Installation & Spiking Tools

Connectors and Fittings

For decades, Raychem’s well-known product families of AMP, Simel and Utilux have supplied connectors and fittings. They are designed to provide reliable connections for low, medium and high voltage overhead and underground networks. Their versatility allows for usage in a wide range of applications for complex markets including substations, overhead lines, underground networks, grounding, original equipment manufacturers and industrial applications.

- Insulating Piercing Connectors
- AMPACT In-Line Disconnect Switches
- Link Boxes
- Clamping Solutions
- Compression Connectors
- Mechanical Connectors
- Bolted Connectors
- Earthing - Grounding Connectors
- AMPACT Wedge Connectors

![Clamping Solutions](image1)

Overhead Applications

- AMPACT Wedge Connectors
- Pyramid Installation

Underground Applications

- SINEMEX RANGE
  Aluminium Connectors up to 220kV

- ANTI CORONA RANGE
  Aluminium Connectors up to 400kV

- UHV RANGE
  Aluminium Connectors up to 800kV

![Clamping Solutions](image2)
Protecting against damage and costly outages is a priority among electrical network operators. That’s why for more than 60 years, Raychem has focused on quality, reliability and technical support to establish itself among the leaders in power distribution protection. We apply rigorous testing to our insulation and protection products to ensure long term performance, especially under critical environmental conditions and pollutants. The commitment to material science has produced technologies that withstand both the forces of nature and unrelenting customer demands.
Customised Wildlife and Asset Protection

As an industry leader in Wildlife and Asset Protection, we understand the challenges utility companies face with regulations that affect the bottom line.

Raychem RPG offers a total product solution – a comprehensive and customizable line of high performance Insulation Enhancement System which is branded as Raysulate. Raysulate can save resources and time, as well as, help in providing our customers with long-term reliable services.

- Heat Shrinkable Insulation Tubing
- Heat Shrinkable & Cold Applied High Voltage Insulating Tapes
- Heat Shrinkable High Voltage Insulating Sheets
- Rigid Red Barrier Boards for Railway Applications
- Cold Applied MV & LV Shrouds for Insulating Live Parts of Switchgear & Outdoor Grid Components
- Creepage Extenders for Enhancing Creepage of Insulators
- Medium & Low Voltage Line Covers

Polymeric Insulators

Raychem’s competence in material science is fundamental to its ability to design polymeric insulators that meet application requirements even for severe environments. Raychem RPG, having over three decades of experience, has worked closely with customers to optimise the design and installation of its products in some of the most challenging environments of the world.

- Suspension & Tension Insulators upto 72.5kV
- Station Post Insulators up to 765kV
- Line Post Insulators up to 72kV
- Hollowcore Insulators up to 765kV
- Railway Insulators
Surge Arresters

Raychem offers an extensive range of polymeric surge arresters for distribution and transmission networks that are in service around the world and are protecting installations in all climatic conditions.

Our Surge Arresters for systems voltage up to 800kV are designed to reliably protect your valuable assets from over voltage. They withstand severe outdoor exposure over long operating lifetime and help maintain service reliability in overhead installations.
THEFT & LOSS REDUCTION

Indian State utilities are aggressively investing in upgrading and strengthening the medium voltage (MV) and low voltage (LV) distribution systems.

At Raychem RPG, we have identified this need of profiling the electricity losses with each utility and taking a customised approach to reduce the same. Distribution losses are attributed to three major factors - technical, societal and commercial losses.

Raychem RPG has been instrumental in developing several innovative technologies to address the issues in the Indian distribution system to reduce losses and maximize profits.
Covered Conductors & Systems

Covered Conductors were introduced for the first time in India by Raychem RPG for applications up to 132 kV in partnership with Amokabel, a Scandinavian group company and leading producer of different types of covered conductors for varied applications.

Covered Conductors are longitudinally water blocked and covered with special grades of materials that provide insulation and ultra violet protection. These conductors provide safety against accidental contact and are a major help in significantly reducing outages.

Covered Conductors are type tested up to 66 kV in line with EN50397 at CPRI and also at international laboratories.

Benefits with covered conductors
- Protect the aluminium conductor from corrosion
- Reduce faults caused by tree contacts and enhance reliability
- Reduce animal faults
- Upgrade the voltage/current without changing the phase distance
- Prevent bush fires
- Lower life cycle cost compared with bare conductor
- Reduce maintenance cost of tree trimming
- Reduce clearance between phases, can cope with direct contact between phases
- Pose less risk of sabotage
- Environmental advantages

LV-Aerial Bundled Conductor System

LV-Aerial Bundled Conductor System is an effective solution offered by Raychem which prevents theft by direct tapping, the most basic method of stealing electricity.

Raychem RPG was one of the first to pioneer the connection, anchoring and suspension of low-voltage insulated overhead systems. Our continuous efforts in research and development have led to state-of-the-art product lines, meeting the demands of modern network design, operation and maintenance. With our piercing connector, service lines can be connected to live lines with maximum safety to linemen.

Advantages of LV ABC:
- Total elimination of faults on LT lines
- Improved reliability
- Avoidance of theft by direct tapping
- Avoidance of overloading of distribution transformers

Low Loss Wedge Connectors

Raychem Wedge Utility Connectors are designed around an engineering principle which we call ‘Wedge Pressure Technology’.

Wedge Pressure Technology has formed the basis for a complete family of connectors that outperforms other conventional connector technologies, resulting in ‘lowest life cycle cost’. Wedge Connectors (Boltless Connectors) overcome the physical and electrical limitations of traditional compression or bolted connectors; resulting in low technical losses and efficient, consistent current flow.

Wedge Connectors provide most cost-effective solutions to a wide range of power connections and grounding challenges.
A conventional connector system used for LV cable connection deploys crimping and tightening of the bolts. Over a period of time, it leads to a loose electrical contact which causes sparks and hot spots. The contact resistance is high which adds to the losses of ailing utilities. The weight of the connector causes mechanical strains on the bushing of the transformer, leading to oil leakages.

Raychem’s Trafoconnect is engineered to keep the contact resistance low for the lifetime of the transformer. It is lighter and simple to install as it uses the modern shear bolt technology, hence avoiding the skill and tool dependent crimping methodology. It significantly increases the reliability of a transformer.

Transformer is a vital component of a distribution system. It has to deliver reliable power in a safe & efficient manner. However, 8% of the transformers installed worldwide fail on account of improper connector systems.

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Features and Benefits

- Current rating: 400A
- Compact design
- Retrofit
- Fully insulated handle to switch single phase or three phase
- Mechanical connections
- Low I’R losses
- Safe Insulated Connections, overcomes safety issues
- Easy sectionalizing
- Add-on connections possible

Anti-Theft Distribution Box

Anti-theft Distribution Box is more reliable and capable of completely eradicating the menace of power theft by direct tapping, the most common way of stealing power. This Anti-theft Distribution Box has a host of highly advanced features that make electricity theft simply impossible.

Features:

- It is equipped with the patented enclosed Novel bus-bar system that is completely tamper proof and prevents access to the metal portion as well. As the bus bar is accessible only through a specialized tool, creating an illegal connection becomes simply impossible
- It features the Electro-magnetic lock, which opens only with a specific current pulse provided through a handheld device. The handheld device is password protected, which makes creating a replica difficult
- It gives a well-organized appearance to the connection point and improves service quality

Wall Mounted Service Pillar

These service pillars are specially designed for the areas where floor space is a constraint and wall mounting is required. These are also suitable for meter rooms.

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Features and Benefits

- Simple and easy Installation
- Light weight connecting system
- No tools required
- Low resistance (I’R) losses
- Maintenance free
- Reliable & Insulated connection

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Smart Feeder Pillar Box
Raychem RPG offers a unique and high-end Feeder Pillar Box which is technically superior, smart and economically competitive product that fits perfectly with the requirements of smart cities. It has secured 3 utilities patents and 2 design patents.

Features
- Current rating: 100A to 630A
- Fully insulated and touch proof
- Innovative connectors for low contact resistance and technical losses (80% loss reduction)
- Easy and safe connection & disconnection of fuse
- The wide range of accessories offers a multitude of modification and upgrade options to suit any need

Feeder Pillar with Horizontal Switch Fuse Unit
The NH Fuse-Switches, horizontal design series offer plant designers and switchgear manufacturers a modular system with reliable and easy-to-install switching devices. The feeder pillar with horizontal SFU optimizes space & reduces overall height of the system for special applications in power distribution utilities & industrial segment.

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- Fully insulated and touch proof
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Tappat: Fully Insulated Service Pillar
The new TAPPAV LV Service Pillar has been designed after extensive testing and field trials. It is a significant improvement over the existing feeder pillars and offers the following advantages:

Advantages
- Reduction in iR losses
- Safe Insulated Connections, overcomes safety issues
- Lockable, tamper proof design hence reduces the risk of power theft and pilferages
- Easy sectionalizing
- Add-on connection possible

Features
- Compatible with both stranded and solid sector cables
- Ability to be switched single phase (or 3 phase) with the use of fully insulated handles
- Easily accessible test points
- Compact, free standing design
- Able to be used on new or existing installations
- Mechanical connections – reduce the problems associated with some compression connectors
- Distribution blocks form an integral part of the unit
- Service take off’s on both sides of the open point
- Customer connections can easily be transferred from one side to the other in the event of problems
Technology leadership of an Indian Company in a fast-evolving new market place, Raychem RPG, in technological partnership with Dynapower, USA brings Energy Storage Solutions to India.

Disruptive technology designed to increase the ROI on investment. Raychem RPG is positioned to be No.1 end-to-end solutions provider in India.

With ‘Make-In-India’ drive, Raychem RPG has set up an integrated Centre of Excellence for Electronics & Power Electronics for manufacturing low cost, smart & intelligent systems for sub-station automation, renewable energy integration & storage.
Utility Scale Battery Energy Storage Solution

Raychem RPG successfully commissioned India’s first MW scale Micro-Grid Energy Storage Lithium BESS Solution at Central Electronics Limited (CEL), Sahibabad in UP, India

Hybrid System & Micro-Grid / Off-Grid System

RE Integration and Ancillary Services

Transmission & Distribution Network Management
Commercial & Industrial

Economical, Sustainable, Affordable & Reliable Power

1. Diesel Consumption Abetment
   - Provides uninterrupted (less than a sec switching time) clean and green power compared to DG Application
   - Zero running or fuel cost with minimum maintenance

2. Power Factor Correction
   - Our system works as an IGBT based Reactive power compensation device.
   - It works in close loop and continuously supplies reactive power as per load requirement.
   - APFC panels and existing PF industry solutions are static solutions whereas our solution is dynamic. This ensures unity PF for customer 24*7.

3. Peak-shaving & TOD Charges

4. Back-up of critical loads
   - Most of the industries will have maximum consumption needs during peak hours when TOD charges are high.
   - Our battery pack will charge during non peak hours when consumption and cost are less and can satisfy a proportion of consumption during peak load hours.
   - This can impact overall electricity cost as cost variation across TOD zones are significant.

5. Solar Integration – Green Micro-grid
   - We can create a reference grid with our solution for solar to function even during power outage.
   - Our system thus provides a green micro grid for your premise with 24*7 firm renewable energy.
HEAD-TO-TOE IN ELECTRICAL SAFETY

Our Personal Protection equipment are safely designed and constructed to minimize exposure to hazards that cause serious workplace injuries. It fits comfortably, encouraging worker use.
Electrical Insulation Mats

Electrical Insulation Rubber Mats comply to IEC 61111 / ASTM D 178 / AS/NZS 2978 and manufactured using high quality elastomer rubber in order to provide complete protection against electric shock, due to earth faults.

Features & Benefits
- Withstands upto 50 kV
- Electrical mat is hard wearing and non-slip and can be easily cleaned or washed with a mild detergent
- Anti-fatigue nature, comforting feet while standing for prolonged period
- Matting is packed in 10-Meter rolls to avoid joints, however cut lengths are also supplied
- Comply with IEC 61111 / ASTM D 178 / AS/NZS 2978 requirements
- Every 300 mm is marked with class and working voltage details
- Electrically tested for each meter

Rubber Electrical Insulating Gloves

Electrical Insulating Gloves protect people working on live voltages or working in proximity of electrical installations from electrical shocks. Our gloves can be used for a wide range of voltages from 500 V to 36000 V and comply with EN60903:2003, IEC60903:2014 and CE category III. Its ergonomic design provides comfort to the wearer for longer duration and its thickness ensures the dexterity

Features & Benefits
- Manufactured at Raychem RPG’s state of art manufacturing facility in Vasai, near Mumbai from natural rubber latex procured from RPG Group’s rubber tree farms.
- Gloves are powder free
- Type tested in renowned international laboratories
- Low Protein tested to avoid allergic reaction to users
- Offer Gloves Revalidation as per IEC 60903-2014 after every 6 months of usage

Flash Protection Arc Suits

Arc suits are specially designed protection garment used worldwide to effectively protect human life from electric flash. They are made from special flame retardant fabric (FR) complying to IEC 61482-1 & IEC 61482-2 and tested as per ASTM 1959. They are classified a per HRC 1, HRC 2, HRC 3, HRC 4, based on ATPV values, as per NFPA 70 E values.

Features & Benefits
- Inherently flame-resistant FR fabric (properties retained over life span)
- Lightweight fabric ranging from 6.5 to 9 oz/yard2 for user comfort
- Unique design in various combinations for fatigue free operation
- Higher ATPV air ventilated design garments
- Stitching with FR rated thread
- Various ATPV value garment starting from 8.4 & upto 100 cal/cm2
- Heat attention factor (HAF) upto 80% to ensure minimum exposure to flash

Revalidation Services

Our relationship with customers does not end but begins with the supply of our Personal Protection Equipment (PPE). At Raychem RPG, we understand that safety is a continuous journey and not a destination. Therefore, to ensure that PPE offers the intended safety to users, we provide revalidation services in line with recommendations of IEC 60903 for Gloves and IEC 61111 for Mats. This service not only checks the healthiness of the PPE but gives peace of mind to the user.
**Helmet with High Voltage Sensor**

**A Life Saving Electrical Smart Helmet**

Raychem RPG’s Electrical Insulating Helmets comply to American Standard ANSI Z89.1 Class E, for testing electrical parameters and mechanical properties as per IS2925:1984. The helmets are made from high quality HDPE which provides higher mechanical and dielectric properties. They are used by workman requiring high level head protection from accidental and electrical shocks from live line wires and while working in congested electrical work areas. When a linesman approaches live line of MV/HV, the sensor will detect the electro-static field in proximity (non-contact type) and alert him with a blinking LED and audible alarm. The Electronic Sensor is type tested as per EMC IEC 61000-4.

**Features & Benefits**
- Unique aero dynamic design for better diversion of falling object.
- Light weight & ergonomically comfortable design for fatigue free operation
- Soft sweatband for ease of wear and absorption of sweat. Sweat can be easily wiped off with cloth
- Slots for fixing accessories like ear muffs & arc face shield
- Higher impact resistance ensures safety
- Senses Electro-Static field of live line
- Detects 11 kV live line from 1.5 meters
- Provides alert through LED & Buzzer
- Easy to replace 2x AAA Batteries

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**Smart Helmet with Integrated LED Torch**

**Advantages**
- High Performance LED upto 45 Lumens
- Easy to recharge Li-Ion Battery using Micro-USB Port
- Run time of 21 hours
- Three level of brightness setting
- Multi Axis Rotation (Covers 360°)
- Beam Coverage (100°)
- Light weight (20g)
- Allow Outdoor Application with IP 65
- Impact Resistance of 1.5 meter

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**Dielectric Boots**

Dielectric boots are completely electrically insulated footwear designed to give added protection from electrical shocks during operations. They offer unique protection when compared to the usual industrial safety boots.

**Features & Benefits**
- Insulating properties for complete footwear and not just for soles
- 100% waterproof
- Dielectric boots meet international standards as per EN 50321
- Made with epoxy coated steel toe
- Specially designed rubber cleated out sole for maximum grip & slip resistance
- Oil resistant vulcanized rubber sole for maximum grip, minimum wear and improved cut resistance
- Heat resistant
- Lining washable knitted nylon (seamless)
- Insole moisture absorbing, machine washable
Raychem RPG’s Services Division offers a wide range of consultancy and service solutions to the utilities and industrial customers for optimized use, enhanced performance, better reliability and cost-effectiveness of electrical network and equipment.

Backed by decades of experience in the industry and state-of-the-art technology, our panel of experts provide end-to-end customer-tailored solutions to better reliability of electrical connections, protection of electrical assets and reduction of power thefts and losses.
Our Core Competencies

- Onsite Measurement Analysis and Recommendation for System Improvement & OPEX Optimization
- Design, Engineering and Testing
- Health Checkup & Complete Diagnostics
- Condition Assessment and Failure Analysis
- Installation, AMC and Monitoring
- Energy/Network/Safety Audits & Training
- Prevention Maintenance
- Replacement Strategies and Risk Assessment

Our Range of Consultancy and Service Solutions
RAYCHEM’S AREAS OF EXPERTISE

- Non-tracking and UV stable materials
- PowerGel insulating material
- Moisture blocking
- High performance heat-shrinkable multi-layer materials
- Surge suppression systems
- Resin technology
- UHV composite materials
- Shearbolt technologies
- Reduced contact resistance
- Electrical stress control
State-of-Art Facilities

Chakan Plant

Vasai Plant

Halol Plant

Raychem Innovation Center Halol