COMMITMENT TO ENERGY NETWORKS
Raychem RPG, incorporated in 1989, is a 50:50 joint venture between RPG Enterprises, India and TE Connectivity, USA (formerly Tyco Electronics).

TE Connectivity is a USD13 billion global provider of engineered electronic components for thousands of consumer and industrial products; network solutions and systems for energy & telecommunication markets; and specialty products.

RPG Enterprises, established in 1979 is conglomerate with a diversified portfolio in the areas of infrastructure, tyres, information technology, health, energy and plantations. Head-quartered at Mumbai, RPG Enterprises (also known as RPG Group), consists of over fifteen companies across core sectors of the economy, with a turnover in excess of USD3 billion.

The Business
Raychem RPG is involved in technologies: strengthening the infrastructure segment of the economy in the following business segments:

- Energy Products
- Transformers
- Oil & Gas
- Exports
- Solar & EMS

Driven by the tradition of Innovation, Energy Products Division (EPD), a strategic business unit of Raychem RPG views its activities as a solution provider for enabling technology that improves the performance, reliability and economy of electrical network and equipment. The company is committed to providing its customers with sustainable and true end-to-end solutions for Reliable Connections, Asset Protection and Theft & Loss Reduction.
OUR ENERGY FOCUS

Discover the energy applications we serve thanks to our extensive portfolio and expertise.

UNDERGROUND POWER NETWORK: Critical components for efficient, high-performing high, medium and low voltage underground networks.

OVERHEAD POWER GRID SOLUTIONS: Overhead components that deliver the ultimate in electrical performance while protecting valuable assets in low, medium and high voltage lines.

COMPLETE CONNECTIVITY FOR SUBSTATIONS: Raychem has a reputation for innovation, reliable performance and easy installation in substation applications with a legacy of product lines globally known for quality and engineering excellence.

OEM SOLUTIONS: Manufacturers of electrical equipment serve utility customers across a broad variety of applications and environments. You need solutions that are engineered for a global environment – and that can be supported anywhere in the world.

RENEWABLE ENERGY: With a reputation for rigorous materials science development, decades in collector systems and 15 years in wind energy, Raychem RPG can help solve the most difficult technical challenges for renewables.

RUGGEDIZED PRODUCTS FOR MINING: We offer a wide breadth of high-quality mining products that address the entire mine electrical infrastructure.

RAIL TRANSPORTATION: Raychem is providing rail products and solutions that optimize energy, increase passenger comfort and provide network reliability.
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. Thankfully the cable accessories, the connectors and the 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 more than 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
- 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 as 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 their 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

**Aluminium Connectors up to 400kV**
**ANTI CORONA RANGE**
**Aluminium Connectors up to 800kV**
**UHV RANGE**
Aluminium Connectors up to 220kV

**Insulation Piercing Connectors**

**Underground Applications**
**Overhead Applications**

**SINEMEX RANGE**
Raychem Cable Clamps

Raychem cable clamps have a patented design which optimises clamping force at both the attachment point, and the cable by securing each clamp half separately. Cables can be aligned and located in the bottom half of the clamp prior to final tightening.

- Range accepts cable diameters from 26 - 106 mm
- Integral stainless steel clamping plates to ensure consistent clamping pressure
- Range taking elastomeric inserts, minimise stock holdings, yet maximise performance
- Impact resistant, Halogen free, UV Stabilised materials
- Patented slider plate design, maximises clamp performance, when under shock load
- Designed and independently tested to meet all requirements of IEC61914

Power System Clamps

Raychem RPG is one of the leading manufacturers of R-Loc clamping solution and offers wide range of clamping products.

- Bands & Buckles
- Stainless Steel Cable Ties
- Making & Identification Systems

Industrial Cable Glands

- Available in Brass, Nickel Plated Brass, Stainless Steel, Galvanised Steel and Aluminium depending on the application
- Single and Double Compression
- Suitable for both indoor as well as outdoor applications
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, Raychem understands the challenges utility companies face with regulations that affect the bottom line.

Raychem 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, and help provide our customers with long-term reliable service.

- Heat Shrinkable Insulation Tubing
- Heat Shrinkable & Cold Applied High Voltage Insulating Tapes
- Heat Shrinkable High Voltage Insulating Sheets
- Rigid Red Barrier Boards
- 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 about 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
Operating Rods
Raychem’s Operating Rods are hollow or solid insulation parts made of fiber-reinforced epoxy resins with metal connection fittings. They can withstand extreme mechanical and electrical loads and are suitable for integration in high voltage equipment where high insulation strength combined with high mechanical strength and low weight is an asset. Operating Rods are used for voltage levels ranging from 50 kV to 800 kV. They are available in various diameters.

Applications
• Bushings for transformers, walls and dead tank breakers
• Grading capacitors, chamber and support insulators for life tank breaker
• Current & voltage transformers in oil and SF6
• Cable terminations
• Surge arresters

Hollowcore Bushings
Raychem’s range of Hollowcore Bushings is made of glass-fiber reinforced resin tube with silicone rubber housing. The superior material properties are especially adapted for high voltage applications in outdoor service.

Surge Arresters
Raychem offers an extensive range of polymeric and porcelain 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 voltage power distribution systems 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.
Features
• Reliable and robust construction
• Have been tested successfully for short circuit, dielectric, corona, seismic and RIV at International test houses as per IEC and Indian Standards
• Designed for easy erection at site
• Suitable for all weather and climatic conditions
• Can withstand high short circuit currents
• Earth blades with telescopic operation
• Can be supplied with complete accessories including support structure, insulators and connectors as per requirement
• Technical support for erection, commissioning and testing

Isolators/Disconnectors
Raychem RPG offers comprehensive range of Hi-velm disconnectors from 11kV up to 1200kV for various current ratings from 800Amps to 3150Amps.

Earthing and Lightning Protection System
Design Risk Assessment
(IEC 62305 - Part 1, Part 2, Part 3, Part 4, NFC 17-102, NFPA - 780)

Air Termination Network
(IEC 62561 - 2, IEC 62561 - 1, UL 467, BS 7430)

Connection Components
(IEC 62561-1, IEC 62561 - 4, IEC 62561 - 2)

Earthing
(IEC 62561-5, IEC 62651-2, IEEE std80 and BS 7671, BS 7430)
Indian state utilities are striving hard to come out of the red and are now aggressively investing in upgrading and strengthening the medium voltage (MV) and low voltage (LV) distribution system.

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 have been 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 have been type tested up to 66kV in line with EN50397 at CPRI and also at International labs.

Benefits with covered conductors
- Protect the aluminium conductor from corrosion
- Reduce faults caused by tree contacts and enhance the 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.

The major advantages of LV ABC are:
- 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.

The Wedge Connectors provide the most cost-effective solutions to a wide range of power connections and grounding challenges.
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.

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 Trafocnect is engineered to keep the contact resistance low for the lifetime of the transformer. It is lighter and pretty 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 the transformer.

Features and Benefits
- Simple and easy installation
- Light weight connecting system
- No tools required
- Low resistance (I^2R) losses
- Maintenance free
- Reliable & Insulated connection

Rayfeed: LV Distribution Pillars
Raychem RPG is at the forefront of providing Indian power utilities with innovative Feeder and Service Pillars that meet their exclusive needs in terms of customized features, product quality, suitability for Indian environment, cost and after sales services.

Our unmatched portfolio includes wide range of Feeder and Service Pillars for varied requirements.

A. FEEDER PILLARS
Conventional Feeder Pillar
We design, manufacture and offer a wide range of single & double door Low Voltage Distribution Feeder Pillars with or without protection device.

We test our Feeder Pillars on stringent industry parameters for assured performance. Our Feeder Pillars are highly cost-effective and value for money.

Advantages
- Durable: Strong & sturdy construction
- Anti-theft: Use of special hardware to avoid tampering
- Low Maintenance: Special non-corrosive coating
- Safe: Optional Smart locking, Maximum opening for user access

Features
- Current Rating: 400A to 1250A
- Manufacture according to customer requirement & specifications
- Both FRP & Steel enclosure available
- Ingress protection level of IP54 & IP55
- EC grade Aluminium busbar as per IS5082. Copper busbar also available
- Full rated neutral busbar
Feeder Pillar with Vertical Switch Fuse Unit
NH vertical switch fuse disconnectors are three-pole fuse-switches for busbar mounting where three single-pole fuse-switches are vertically arranged in one unit. Each of the feeder terminals is directly connected to one phase of a three-phase busbar system. The outgoing terminals are equipped with terminals for cable conductors. Integration of enclosures, switchgear and fuses ensures that they work in perfect harmony & tested as a complete system to satisfy all the requirements of distribution network operators and industry.

Features & Advantages
- Current rating: 400A to 1000A
- Both FRP & Steel enclosure options
- Ingress protection level of IP54 & IP55
- Short circuit capacity up to 50kA, 1 Sec.
- Fully Insulated & touch proof
- Easy and safe connection & disconnection of fuse
- Compact & modular construction
- Easy voltage measurement, comfortable access with standard voltage testers

Feeder Pillar with Horizontal Switch Fuse Unit
The NH Fuse-Switches, horizontal design series offers 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.

Features & Advantages
- Current rating : 100A to 630A
- Uniform installation depth
- Offer perfect protection against accidental contact for ultimate safety and visual appeal of the power distribution system
- Easy voltage measurement, Comfortable access with standard voltage testers
- Fully Insulated & touch proof
- Easy and safe connection & disconnection of fuse
- The wide range of accessories offers a multitude of modification and upgrade options to suit any need

Tappat: Fully Insulated Service Pillar
The new TAPPAT 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
- Current Rating: 400A
- Modular in design, allowing simple and efficient installation
- Compatible with both stranded and solid sector cables
- Compatible with existing “standard” LV main pillars
- 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
Wall Mounted Service Pillar
These service pillars are specially designed for the areas where floor space is in a constraint and wall mounting is required. These are also suitable for meter rooms.

Features & Advantages
- Current rating: 400A
- Compact design
- Retrofit
- Fully insulated handle to switch single phase or three phase
- Mechanical connections
- Low I²R losses
- Safe Insulated Connections, overcomes safety issues
- Easy sectionalizing
- Add-on connections possible

Anti-Theft Distribution Box
Raychem’s 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 of it difficult
- It gives a well-organized appearance to the connection point and improves service quality

Enclosures
Raychem RPG offers high thickness, higher IP, Aluminium pressure die cast enclosures. These are basically used for harsh and demanding application and can be customized as per the customer requirements. Apart from the Aluminium range, we have our offerings in GRP and Steel material that suit your specific requirements.

- Aluminium Enclosures
- Stainless Steel Enclosures
- Glass Reinforced Polyester (GRP) Standard Enclosures
- Glass Reinforced Polyester (GRP) Ex Enclosures
- Atex Enclosures
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 Range of Consultancy and Service Solutions

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

Our Core Competencies
SMARTER SOLUTIONS FOR A SMART WORLD

With the aim to provide Smart Infrastructure for the new India, which will not only become the backbone of the economy in the times to come but also be the key to sustainable development of India’s future smart cities, Raychem RPG is relentlessly developing intelligent solutions which are more reliable, more efficient, more advanced, safer and most importantly fulfils the demands and aspirations of a new India.
Raypole
Raypoles is a next-gen multi-function outdoor pole unit designed to efficiently provide several features that are congruent to smart city requirements. It functions as a self-sustaining intelligent street light while also being the eyes for the security department as it has inbuilt surveillance systems. It is also a helpful tool for air quality monitoring, a necessity element for emergency communications, a handy advertising display medium and a convenient WiFi access point. When you are low on charge for your electric vehicle, a Raypole is what you seek as it doubles up as a charging station. What’s more, Raypoles have a hybrid inverter and a battery bank for the maximum usage of solar power generated through a solar panel, used during unavailability/failure of utility power.

Features
- Solar Panel
- Intelligent Street Lights
- Surveillance Camera
- Advertisement Display
- Air Quality Display
- WiFi Access Point
- Electric Vehicle Charging
- Emergency Communications
- Hybrid Inverter
- Battery Bank

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
- Compact: 40%-50% less footprint reduction
- Modular busbar arrangement for greater scalability
- Innovative connectors for low contact resistance and technical losses (80% loss reduction)
- Fully insulated and touch proof
- Smart features for online monitoring energy, fuse health & thermal profile
Thermal Specion for Substation Monitoring

Remote and automated early fault detection in substations and industrial sites

- Automated, continuous thermal and visual imaging of substation for performance and safety
- Remote fault detection and alarm generation
- Immediate analysis of dynamic conditions
- Complete turn-key system with protocols for data export
- All data stored to a database for analysis, remote access, and video playback

Feeder Monitoring System

The substation Total Demand Monitor is easy to install (30-45 minutes), versatile and configurable metrology system. The total demand of the substation or feeder is calculated by the summation of the feeder loads and all loading parameters are measured. The system may be configured to measure transformer output and feeders by using Rogowski coils. Busbar voltage phase to phase angles may also be measured for the 3 phases. Working in conjunction with RTU, the data is transmitted to a central server over GPRS.

Advantages for network engineer & managers:

- Continuous substation monitoring and real time data: optimized decision making
- No calibration, no maintenance required
- Reduce losses, improve efficiency and cost of network
- Increase customer quality of service
- Integrate with current/future Smart Grid systems

Features

- Ease of Installation plug and play interface for both current sensors and voltage inputs (Live fit)
- Maximum no. of 6 LV feeders per metrology unit. Capable of daisy chaining up to 2 metrology units with single using only 1 RTU
- Additional inputs for 2 temperature sensors
- 3 Phase + Neutral Current measured using Rogowski coils per feeder
- Voltage data aggregation of Min, Max, Average and RMS values
- LCD on RTU can be used to display Modbus parameters
- Configurable/programmable Alarms for all parameters
- Solid State Data Storage as backup
- Lockable case with overall dimensions of 425mm x 300mm x 180mm
- Ingress Protection IP65 (EN60529) and Impact Resistance IK06 (EN62262)
Smart Fault Passage Indicator

Power networks are subjected to extreme weather events and pollution all-round the year. From lightening to high-speed winds, and dust storms to environmental pollution, an array of factors could be detrimental to their smooth functioning.

The result is the appearance of faults from time to time and disruption in the power supply for long hours, causing huge revenue losses to the utilities.

The key to minimizing losses on account of faults lies in identifying the fault locations early and taking timely remedial measures. Raychem Fault Passage Indicators enable utilities to do so with ease. Raychem’s FPIs help electricians attain quick visual or remote indication of the fault occurrence on an overhead electrical system.

Features
- SCADA enabled interface of RTU: RS232, GSM, GPRS & IEC104
- Conform to IEC / EN standards
- Exceeding stringent EMI / EMC requirements
- Both communicable and non-communicable options available
- Suitable for 11kV, 33kV & 66kV overhead line with radial network & solidly earthed networks
- Bright visual indication
- Respond to both permanent faults, transient faults and auto recovery when fault disappear
- Measure di/dt, Configurable current magnitude, Configurable reset time & indication time
- Configurable Inrush current restraint
- High accuracy in fault detection and ease of installation
- Light weight
- High wind resistance
- Compact design
- Long battery life
- Self-powered and easy battery replacement

Safety Helmet With Sensors

Raychem RPG offers a comprehensive range of Electrical Insulating Helmets with smart sensors which not only protect linemen from electrical shocks but also sense electro-static field in proximity and alert the lineman with blinking LED and audible alarm.

The helmets are made of high-quality HDPE which provides higher mechanical and dielectric properties.

Features
- Integrated contact-less sensor
- Dual warnings – alarm beep and LED sign
- Easily replaceable AAA size batteries
- Conform to IS 2925 & all other IEC / EN standards
- Exceeding stringent EMI / EMC requirements
- Conform to ANSIZ89.1 class E, which is specially designed standard for testing electrical parameters
- Mechanical properties tested as per IS2925:1984
- 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 muff & arc face shield
- Higher impact resistance ensures safety
- Detect 11kV live line from 2mtr of distance
- Sensor is type tested as per EMC IEC61000-4
State-of-the-art EHV Testing Facility at Halol
Raychem Innovation Centre, Halol
Energy Products Manufacturing Facility
Disconnector Plant
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