

UNICHEM

Electrical Products

www.unichempower.com

POWER CABLE ACCESSORIES



**Empowering Energy.
Enabling Connectivity.**



**TRUSTED CABLE ACCESSORY SOLUTIONS
FOR MODERN POWER NETWORKS**

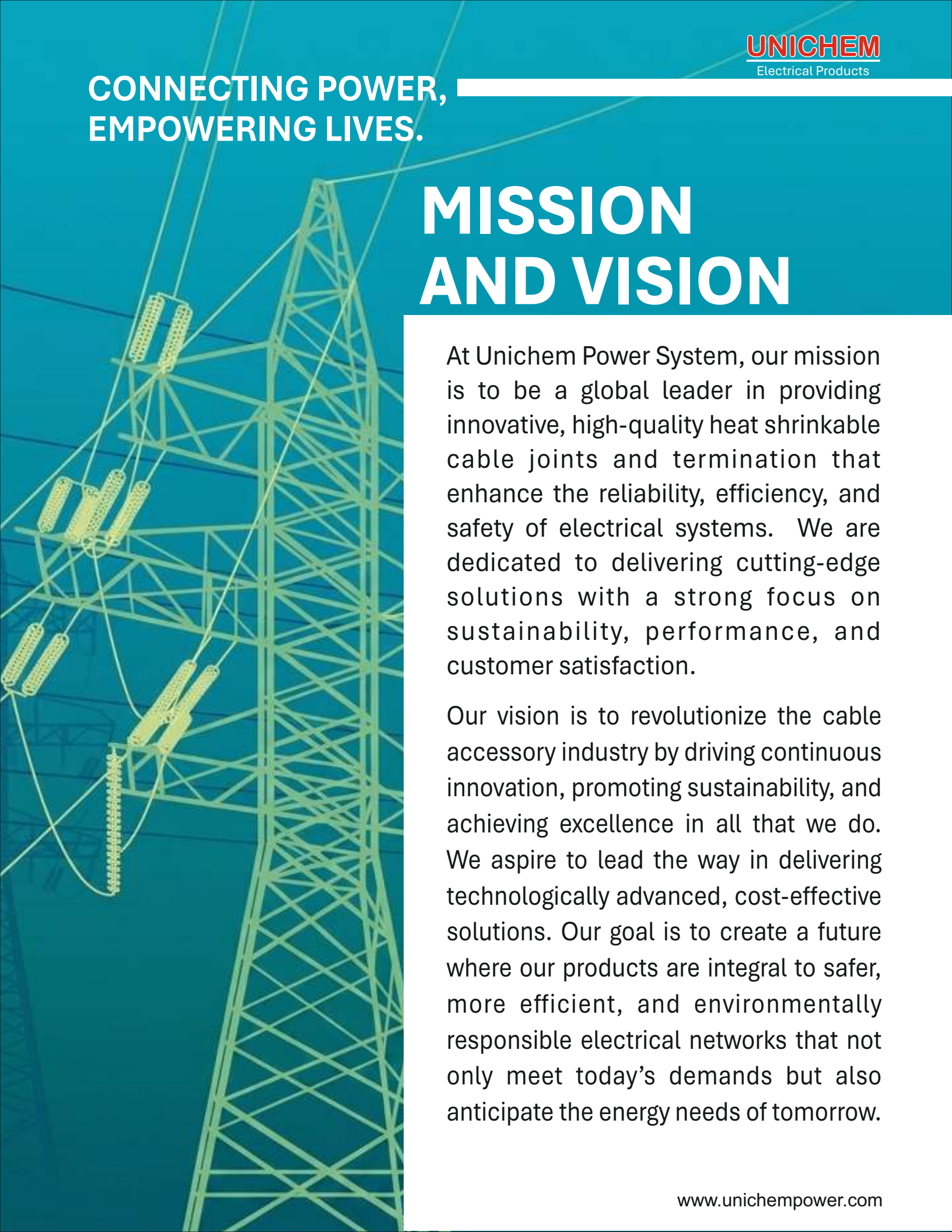
INTRODUCTION

Unichem Power System is a trusted manufacturer and supplier of premium cable accessory solutions, dedicated to supporting safe, efficient, and reliable power distribution networks. With a strong foundation built on quality, innovation, and customer satisfaction, because of **CPRI** type tested material. We provide products that meet the demanding requirements of utilities, industries, infrastructure projects, renewable energy installations, and commercial developments.

FOUNDED AND LEAD BY :

Mr. Anuj Kambooj and Mr. Vipul Kambooj, the company combines technical expertise with a customer-centric approach to deliver products that ensure long-term performance and operational reliability.

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CONNECTING POWER,
EMPOWERING LIVES.

MISSION AND VISION

At Unichem Power System, our mission is to be a global leader in providing innovative, high-quality heat shrinkable cable joints and termination that enhance the reliability, efficiency, and safety of electrical systems. We are dedicated to delivering cutting-edge solutions with a strong focus on sustainability, performance, and customer satisfaction.

Our vision is to revolutionize the cable accessory industry by driving continuous innovation, promoting sustainability, and achieving excellence in all that we do. We aspire to lead the way in delivering technologically advanced, cost-effective solutions. Our goal is to create a future where our products are integral to safer, more efficient, and environmentally responsible electrical networks that not only meet today's demands but also anticipate the energy needs of tomorrow.

HEAT SHRINKABLE CABLE JOINTS AND Terminations Kits from 1.1 kV to 72.5 kV

UNICHEM Heat Shrink Straight Joints are designed to provide superior insulation, mechanical strength, and environmental sealing for medium and high voltage applications.

Built with high-quality heat shrink components, they deliver dependable performance and long service life, even in challenging operating conditions.

SELF-LIFE & STORAGE:

All of our heat shrinkable joints and termination kits offer a prolonged shelf life when kept in humidity-controlled storage conditions.

FEATURES:

- **Compact Design**
- **Easy to Install and User-Friendly**
- **Superior Mechanical Strength and**
- **Outstanding Dielectric Properties**
- **Immediate Re-Energization**
- **Exceptional Weather and UV Resistance**



Technical Specification

Test item of Heat Shrink Straight through Joint & Termination
as per IEC-60502-4/IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29 kV, 5 min, no flashover	58 kV, 5 min, no flashover	86 kV, 5 min, no flashover
Partial Discharge Test	11kv < 10pc (Max.)	22 kv < 10pc (Max.)	33 kv < 10pc (Max.)
Thermal Cycles (63 Cycles)	under 95-100 °C	under 95-100 °C	under 95-100 °C
Impulse Voltage Test	75 kV No flashover	125 kV No flashover	170 kV No flashover
A.C. Withstand Test	16 kV, 15 min, no flashover	32 kV, 15 min, no flashover	48 kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300 hrsm 8kV	No flashover, tracking erosion or mechanical damage occurred at 300 hrsm 16kV	No flashover, tracking erosion or mechanical damage occurred at 300 hrsm 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 24kV no flashover, tracking

COLD SHRINKABLE CABLE JOINTS AND Terminations Kits from 1.1 kV to 42 kV

UNICHEM Cold Shrink Joints offer a flame-free installation process with consistent performance in all site conditions. Their advanced design ensures excellent insulation, moisture protection and long-term reliability, making them ideal for industrial, utility, and renewable energy applications.

UNICHEM medium voltage cable terminations are built with advanced cold shrink technology, delivering exceptional safety, long-term reliability and simplified installation. Designed for both indoor and outdoor applications, they provide superior stress control, excellent sealing, and mechanical protection.

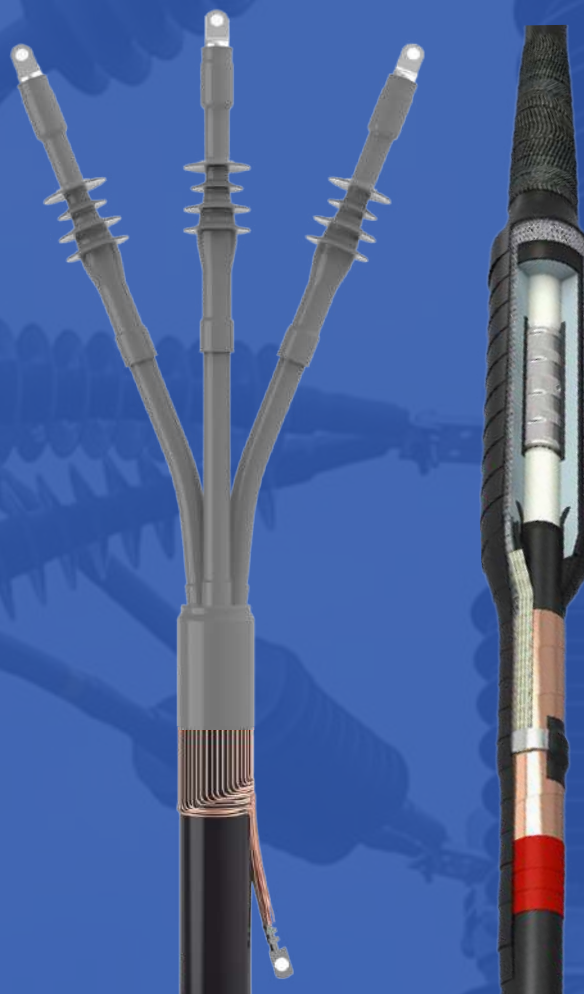
SELF-LIFE & STORAGE:

All of our cold shrinkable joints and termination kits offer a long shelf life when stored in humidity controlled environments.

FEATURES:

- **Compact Design**
- **Easy Installation & Jointer Friendly**
- **Integrated geometrical stress cones**
- **Immediate Re-Energizing**
- **No flammable**

Flame-free installation with consistent sealing performance



Technical Specification

Test item of Cold Shrink Straight through Joint & Termination
as per IEC-60502-4/IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29 kV, 5 min, no flashover	58 kV, 5 min, no flashover	86 kV, 5 min, no flashover
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TRANSITION & TRIFURCATING JOINTS

Terminations Kits from 1.1 kV to 42 kV

UNICHEM Transition and Trifurcating Joints are engineered for seamless connections between different cable types, including PILC to XLPE and 3-core to single-core systems. Their compact construction and robust performance make them suitable for demanding medium voltage installations.

SELF-LIFE & STORAGE:

Kits are shelf-stable under dry storage, allowing easy stocking and phased project deployment.

FEATURES:

- **Compact Design**
- **Efficient Core Separation**
- **Wide Cable Compatibility**
- **Durable and Reliable Construction**
- **No flammable**



Specialized systems for mixed and complex cable configurations

Technical Specification

Test item of Transition & Trifurcating Joints
as per IEC-60502-4/IS:13573



Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29 kV, 5 min, no flashover	58 kV, 5 min, no flashover	86 kV, 5 min, no flashover
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LOW VOLTAGE CABLE JOINTS

Terminations Kits UPTO 1.1 kV

UNICHEM Low Voltage Cable Joints provide secure electrical continuity and reliable environmental protection for polymeric insulated cables. Designed for simple installation and long-lasting service, they support a wide range of industrial, commercial, and infrastructure projects.

UNICHEM low voltage heat shrink terminations are manufactured using high-quality, non-tracking polymer materials, offering excellent mechanical strength and insulation performance.

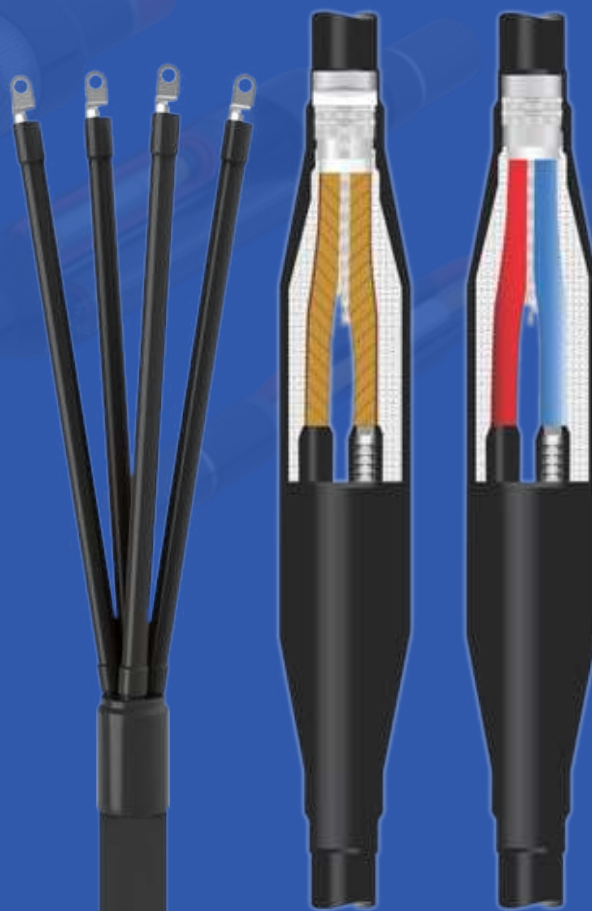
SELF-LIFE & STORAGE:

All components maintain performance integrity when stored in recommended conditions, allowing flexible inventory management and readiness for long-term use.

FEATURES:

- **Compact Design**
- **Effortless Installation**
- **Reliable Electrical Performance**
- **Mechanical Ferrule Compatibility**
- **Field-Tested Durability**
- **No flammable**

Durable jointing for dependable low-voltage distribution



Technical Specification

Test item of Low Voltage Cable Jointer
as per IEC-60502-4/IS:13573



Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29 kV, 5 min, no flashover	58 kV, 5 min, no flashover	86 kV, 5 min, no flashover
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Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 100 hrs, 24kV no flashover, tracking

MECHANICAL SHEAR HEAD CONNECTORS & LUGS

Terminations Kits UPTO 42 kV

UNICHEM Mechanical Shear Head Connectors and Lugs ensure safe and dependable conductor terminations for copper, aluminium, and bi-metallic applications. The innovative shear bolt mechanism guarantees accurate tightening without special tools, delivering excellent mechanical stability and electrical efficiency over the product lifecycle.

SELF-LIFE & STORAGE:

All components maintain performance integrity when stored in recommended conditions, allowing flexible inventory management and readiness for long-term use.

FEATURES:

- **Durable Design**
- **Universal Compatibility**
- **High Conductivity & Stability**
- **Precision Shear-Bolt Technology**
- **Quick & Tool-Free Installation**



Torque-controlled conductor connections for modern networks

Technical Specification

Testing Parameters	Specification
Bolt System	Pre-engineered aluminium alloy shear-head bolts
Voltage Class	1kV up to 42kV
Body Material	High-strength tin-plated aluminium alloy
Conductor Range	25 mm ² – 630 mm ² (copper, aluminium, bi-metallic)
Surface Treatment	Tin-plated for corrosion resistance & improved conductivity
Installation Tools	No crimping or torque wrench required

SEPARABLE CONNECTORS

T-Connectors upto 36 kV

UNICHEM Separable Connectors are designed for use in medium voltage networks and are primarily used to connect polymeric cables to switchgear, RMUs, and other electrical equipment. These connectors offer a touch-proof termination to prevent accidental electrical contact, significantly enhancing safety during installation and operation. The connectors can be used for various voltage levels up to 24kV, supporting systems with current ratings such as 250A, 400A, and 630A.



Features:

- Capacitive Measuring Point
- Pre-Tested EPDM bodies
- Cable Sheath testing on live connectors
- Integrated Mechanical Connector
- Ultimate shelf life

Applications:

- Suitable for Aluminium and Copper conductors
- Used for both Indoor and Outdoor
- IS/IEC standards

TAPES

Heat Shrink and Cold Shrink Solutions

UNICHEM Electrical Products offers a comprehensive range of sealing tapes, wraparound repair sleeves, and protective accessories for low, medium, and high-voltage applications. Available in heat shrink and cold shrink technologies, these products provide dependable insulation, superior mechanical strength, and long-term environmental protection. Type-tested solutions built for modern power transmission and distribution networks deliver exceptional safety, durability, and performance across demanding domestic and international applications.



Armor Cast Tape

Fibreglass-reinforced repair wrap for cable protection

UNICHEM Armor Cast Tape is a high-strength, fibreglass-reinforced repair wrap for restoring and protecting damaged cables, splices, and joint assemblies. Activated by water, it cures rapidly to form a rigid protective shell without heat, electrical power, or specialized tools.

Stress Control Mastic Tap

Electrical stress grading and sealing for cable accessories

UNICHEM stress control mastic tape is used in cable terminations and joints to manage electrical stress concentration while improving sealing around irregular cable profiles. Its conformable construction supports smooth installation, reliable void filling, and dependable long-term accessory performance.



EPR (Ethylene Propylene Rubber)

Splicing and terminating high-voltage power cables.

UNICHEM EPR (Ethylene Propylene Rubber) self-amalgamating tape is a non-tacky, stretchy rubber insulation tape that fuses to itself without glue, creating a seamless, waterproof, and airtight seal for high-voltage cables and emergency pipe repairs. Suitable for electrical insulation up to 69 kV.

Insulating Black Mastic Sealing Tape

Void filling and sealing for cable joints and terminations

UNICHEM insulating black mastic sealing tape covers sharp metallic edges, arm wires, lugs, and ferrules in low and medium-voltage cable accessories. Its self-fusing composition fills voids and creates a durable barrier against moisture, dust, and contamination.



Non-Tracking Mastic Sealing Tape (Red)

Watertight sealing for MV/HV cable terminations

UNICHEM non-tracking red mastic sealing tape provides durable electrical insulation and watertight sealing between cable components and heat shrink materials. Its self-amalgamating formulation conforms to irregular surfaces, eliminates voids, and performs reliably in polluted and humid environments.

TUBES

Heat Shrink and Cold Shrink Solutions

UNICHEM Electrical Products offers a comprehensive range of busbar insulation tubing, stress control tubing, medium and heavy-wall tubing. Available in heat shrink and cold shrink technologies, these products provide dependable insulation, superior mechanical strength, and long-term environmental protection. Type-Tested solutions built for modern power transmission and distribution networks deliver exceptional safety, durability and performance across demanding domestic and international applications.



Non-Tracking Heat Shrink Tubing

High-voltage insulation for polluted environments (Up to 66kV)

UNICHEM Non-Tracking heat shrink tubing is designed for high-voltage insulation in contaminated and demanding service environments. Halogen-free cross-linked polyolefin provides excellent resistance to tracking, erosion, UV radiation, and environmental ageing for indoor and outdoor applications.

Heat Shrink Tubing for Fibre Optic Splice Closures

Watertight sealing for telecom and data networks

UNICHEM heat shrink tubing for fibre optic splice closures protects sensitive fibre connections from moisture, corrosion, and mechanical stress. Its internal spiral polyamide adhesive layer and UV-resistant cross-linked polyolefin construction support long-term outdoor and underground performance.



Heat Shrink Wraparound Cable Repair Sleeves

Cable sheath repair without disconnecting the system

UNICHEM heat shrink wraparound sleeves repair damaged cable sheaths and restore environmental protection without disconnecting the cable. A stainless-steel closure system and internal hot-melt adhesive provide secure installation and complete sealing against contaminants and water ingress.

Heavy-Wall Heat Shrink Tubing

Enhanced wall thickness for rugged cable protection (Up to 66kV)

UNICHEM Heavy-wall heat shrink tubing provides reliable insulation, sealing, and mechanical protection for medium-voltage cable systems in harsh environments. Its 4:1 shrink ratio, impact resistance, abrasion resistance, and optional adhesive lining support secure sealing across varied cable dimensions.



Heat Shrink Insulation Tubing (Red)

Critical insulation component for MV/HV jointing systems (Up to 66 kV)

UNICHEM Heat shrink red insulation tubing restores original cable insulation levels in medium and high-voltage cable jointing systems. Premium cross-linked polyolefin construction provides dielectric strength, mechanical integrity, and dependable long-term operation in demanding service conditions.

Medium-Wall Heat Shrink Tubing

Reliable insulation and sealing for LV distribution systems (Up to 1kV)

UNICHEM medium-wall heat shrink tubing provides insulation, protection, and sealing for low-voltage cable accessories and distribution systems. Thermally stabilized cross-linked polyolefin, a 3:1 shrink ratio, and adhesive-lined options support secure fitting and moisture protection.



Moulded Components For Medium Voltage Networks

UNICHEM Electrical Products offers a comprehensive range of moulded components, including breakout boots, rain sheds, skirts, and cable end caps for medium-voltage applications. Available in heat shrink and cold shrink technologies, these solutions provide superior insulation, environmental sealing, and long-term mechanical protection. Designed with advanced polymer technology and manufactured to international quality standards, UNICHEM products deliver dependable performance across utilities, industrial facilities, renewable energy



Heat Shrink Anti-Tracking Cable Breakout Boots

Reliable sealing and strain relief at cable crutch areas (Up to 66kV)

UNICHEM Heat Shrink Anti-Tracking Cable Breakout Boots provide reliable sealing and mechanical protection at cable crutch areas in medium-voltage installations. Cross-linked, weather-resistant, non-tracking materials support excellent insulation performance, strain relief, and long service life indoors and outdoors.

Cold Shrink Cable Breakout Boots

Flame-free sealing for 3-core power cables (Cold Shrink)

UNICHEM Cold Shrink Cable Breakout Boots offer a safe sealing solution for 3-core power cables. Factory-expanded silicone rubber contracts after core removal to create secure watertight and airtight sealing without heat or special tools, with strong resistance to UV, ozone, moisture, and temperature extremes.



Heat Shrink Anti-Tracking Rain Sheds

Creepage enhancement for polluted and humid environments (Up to 36kV)

UNICHEM Heat Shrink Rain Sheds enhance creepage distance in medium-voltage cable terminations, improving insulation reliability in polluted, coastal, and high-humidity environments. High-quality cross-linked polyolefin with anti-tracking characteristics delivers dependable weather protection.



Heat Shrink Cable End Caps

Moisture sealing for cables, conduits, and storage protection (Adhesive lined)

UNICHEM Heat Shrink Cable End Caps provide moisture sealing and environmental protection for power cables, telecom cables, and conduits. Thermally stabilized cross-linked polyolefin with internal adhesive coating protects against water ingress, UV exposure, dust, and contaminants.



Moulded Components For Medium Voltage Networks

UNICHEM Electrical Products offers a comprehensive range of moulded components, including breakout boots, rain sheds, skirts, and cable end caps for medium-voltage applications. Available in heat shrink and cold shrink technologies, these solutions provide superior insulation, environmental sealing, and long-term mechanical protection. Designed with advanced polymer technology and manufactured to international quality standards, UNICHEM products deliver dependable performance across utilities, industrial facilities, renewable energy



Cold Shrink Bushing Boots

High-Performance Elastomeric Insulation (Up to 24 kV)

UNICHEM Cold Applied Flexible Bushing Boots are designed to provide enhanced phase-to-phase and phase-to-ground insulation in switchgear and transformer cable boxes, supporting systems up to 24 kV. Manufactured from premium elastomeric material, these boots combine superior electrical performance with exceptional ease of installation.

Heat Shrink Protective End Right Angle Boots

High-performance insulation material (Up to 36kV)

UNICHEM heat-shrink insulating boots are moulded parts, that fit over the connection between a termination's cable lug and an equipment bushing, to provide phase-to-phase and phase-to-ground insulation. They are used in switchgear and transformer cable boxes, where air clearances are insufficient for normal operation, and they also protect against flashover caused by rodents or high humidity..



Heat Shrink Semi-Conductive Cable Breakout Boots

Screening layer with robust environmental sealing (Up to 36kV)

UNICHEM Semi-Conductive Cable Breakout Boots are developed for medium-voltage cable joints and terminations, combining an effective semi-conductive screening layer with robust environmental sealing. Specially formulated polyolefin and adhesive systems support reliable electrical and mechanical performance. Characteristics delivers dependable weather protection.

Heat Shrink Low Voltage Cable Breakout Boots

Durable sealing for multicore LV cable systems (Up to 3.3 kV)

UNICHEM Heat Shrink Low Voltage Cable Breakout Boots protect multicore cables up to 3.3kV. A high shrink ratio enables precise fitting across cable sizes, while internal hot-melt adhesive creates a moisture barrier for 2-core to 7-core cable configurations indoors and outdoors.



INSTALLATION & SERVICES

Build reliable infrastructure through skilled installation

In today's evolving power industry, the reliability of electrical networks depends not only on high-quality products but also on the expertise behind their installation.

Proper installation practices are essential to ensure the long-term performance, safety, and efficiency of cable accessories and power distribution systems.

At UNICHEM Electrical Products, we support customers beyond manufacturing through comprehensive training programs and professional installation services.

Technical Service Support



Programs combine theoretical knowledge with practical field experience so engineers, technicians, and jointers can execute installations according to industry best practices.

Technical Installation Support



Professional field support helps teams handle product installation, site procedures, and application techniques with confidence.

Expert Guidance

Our trainers focus on real-world applications, safety procedures, product handling, and installation methods for reliable system performance.

Measurable value for power network teams

Our services are designed for utilities, industrial facilities, infrastructure projects, and EPC contractors that need stronger workforce capability and consistent installation quality.

- ❑ Reduced Downtime & Extended Asset Life
- ❑ Improved Network Efficiency
- ❑ Enhanced Safety & Regulatory Compliance

- ❑ Practical, Hands-On Learning
- ❑ Technical Support Beyond Training



UNICHEM

Electrical Products

🏠 Vill. Marupur, Jathlana,
Yamunanagar,
Haryana-135133 (India)

☎ +91 98962 13012

☎ +91 96710 00191

✉ unichempower@gmail.com

🌐 unichempower.com

High-performance cable accessories, insulation systems, and connection solutions for dependable power networks.