Www.**Raylinepower**.com

Innovative & Sustainable

POWER CABLE ACCESSORIES

for a Luminous Future!

RAYLINE®

CONNECTIVITY

ISO 9001:2015, ISO 14001:2015

"Empowering Innovation,
Connecting The World"

INCESSANT ELECTRICITY IS GUARANTEED

INTRODUCTION

Rayline Connectivity founded in 2016, is an ISO 9001:2015 certified manufacturer specializing in high-quality Medium and Low Voltage cable accessories. With a steadfast commitment to innovation, sustainability, and long-term reliability, Rayline has established itself as a trusted leader in design, development and manufacturing of Heat Shrinkable Cable Joints and Termination kits, MV, LV and other cable accessories. We dedicated to delivering products that ensure the optimal performance, safety, and durability of electrical systems. By embracing cutting-edge technology and best-in-class manufacturing practices, Rayline ensures its products and services meet the dynamic requirements electrical utilities and EPC Contractors.

Rayline Connectivity takes great pride in the quality and reliability of its products. All our cable accessories undergo rigorous testing in accordance with a range of national and international standards, ensuring they meet the highest performance benchmarks. Our products are tested against specifications such as IS 13573, IEC, and CENELEC HD 629.1, ensuring compliance with the most stringent global requirements. Furthermore, to validate their durability and performance, Rayline's products are tested in accredited NABL laboratories. This ensures that every product and solution we deliver adheres to the highest standards of safety, quality, and reliability, providing our customers with peace of mind and assurance that our products will perform as expected under diverse conditions.

At Rayline Connectivity, we are proud to have a team of expert management consultants and electrical engineers with extensive experience working alongside power distribution companies across the globe. Their deep industry knowledge and technical expertise enable us to deliver tailored solutions that meet the unique needs of each client, ensuring optimal performance and reliability for electrical networks worldwide.

Seamless Connectivity

"Your Trusted Partner For Secure Cable Solutions"

Our Mission

At Rayline Connectivity, 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. By leveraging advanced technologies and maintaining the highest standards of quality, we strive to empower industries worldwide to build resilient electrical networks that meet the demands of today and the challenges of tomorrow. Our commitment to continuous innovation and excellence drives us to exceed customer expectations and contribute to a sustainable future for all.

Our Vision

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. Through our unwavering commitment to quality and customer-centric approach, we aim to help our customers overcome their toughest challenges, while contributing to a greener, more energy-efficient world.

Heat Shrinkable Cable Joints and Terminations Kits from 1.1 kV to 66 kV

Rayline heat shrink cable joints and terminations are suitable for all types of MV-HV electrical cables (Single Core and Three Core), with or without armoured or lead sheath. They are designed to meet the critical requirements of MV-HV cable accessories, including high mechanical strength, excellent electrical properties, effective stress relief, environmental sealing, and other performance parameters. These kits compile with various national and international quality standards such as IS 13573 (2011), IEC 60502, and CENELEC HD 629.1.

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

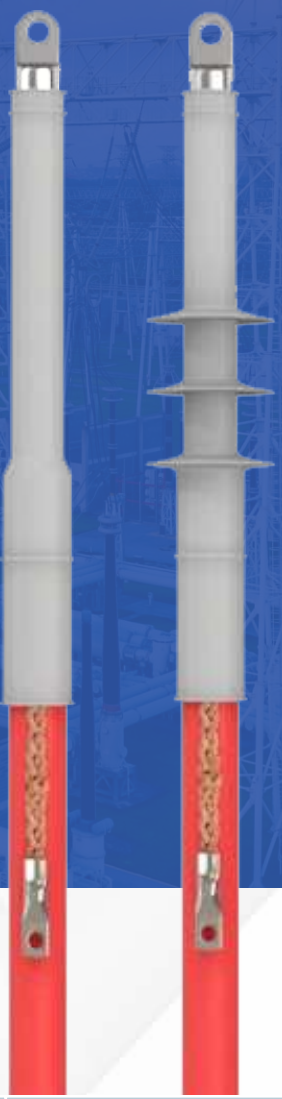
Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29 kV, 5 min, no flashover	58 kV, 5 min, no flashover	86 kV, 5 min, no flashover
Partial Discharge Test	11kv < 10pc (Max.)	22 kv < 10pc (Max.)	33 kv < 10pc (Max.)
Thermal Cycles (63 Cycles)	under 95-100^{0}C	under 95-100^{0}C	under 95-100^{0}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 occured at 100 hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occured at 100 hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occured at 100 hrs, 24kV no flashover, tracking

Cold Shrinkable Cable Joints and Terminations Kits from 1.1 kV to 36 kV

Rayline cold shrink cable joints and terminations are designed for all types of MV-HV electrical cables. Crafted from durable silicone rubber, they ensure optimal performance in real-world conditions, meeting or surpassing standards such as IS 13573 (2011), IEC 60502, IEEE 98, 404, and CENELEC HD 629.1.

The system features pre-stretched components with a removable spiral core. During installation, the tube is positioned over the connection, and the core is removed, enabling the tube to shrink and create a secure, waterproof seal.

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

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
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 occured at 100 hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occured at 100 hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occured at 100 hrs, 24kV no flashover, tracking

Separable Elbow Connectors/ T-Connectors upto 36 kV

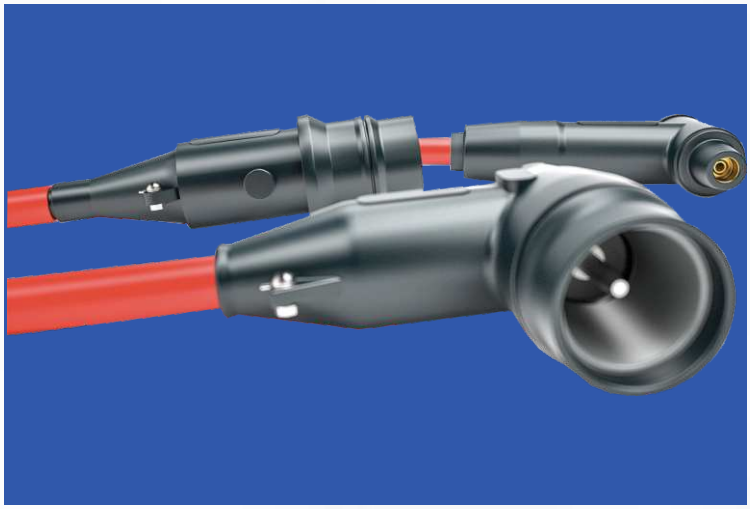
Rayline's Separable Connectors are designed for use in medium voltage networks and are primarily used to connect polymeric cables to switchgear, RMUs, and other electrical equipment. These connectors offer a touch-proof termination to prevent accidental electrical contact, significantly enhancing safety 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:

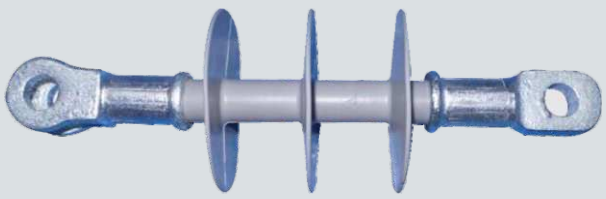
- Capacitive Measuring Point
  Pre-Tested EPDM bodies
- Cable Sheath testing on live connectors
- Integrated Mechanical Connector
- Ultimate shelf life

Applications:

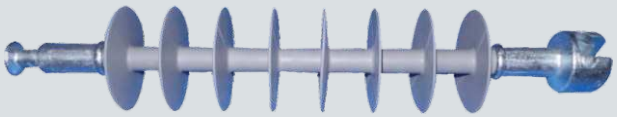
- Suitable for Aluminium and
  Copper conductors
- Used for both Indoor and Outdoor
- IS/IEC standards



Composite Polymeric Insulators for 11 kV and 33 kV



11 kV 45/70/90 kN T&C Insulator



33 kV 45/70/90 kN B&S Insulator

Features:

- Constructed from High-Quality Silicone Rubber
- Ideal for Use in Highly Polluted Environments
- Superior Mechanical Strength
- Lightweight Design
- Low Maintenance and Easy to Clean
- Convenient for Transportation and Simple Installation
- Outstanding Weather and UV Resistance
- Hydrophobic Silicone Housing for Enhanced Performance

Rayline composite polymeric insulators are crafted from high-quality silicone rubber and reinforced with a FRP rod made from meticulously aligned ECR glass fibers infused with epoxy resin, ensuring maximum mechanical strength. The key advantage of silicone rubber over ceramic insulators is its hydrophobicity, which prevents water absorption and forms water droplets on the surface, enhancing performance in wet conditions.

The insulator housing is created through high-pressure injection molding of silicone rubber onto the core in a continuous process during vulcanization, resulting in a strong chemical bond between the core and housing.

End fittings are attached using a pressure-controlled, multi-step crimping process, employing a patented crimp control technology that protects the fiberglass rod while maximizing mechanical strength. The interfacial gap is sealed with a tracking and erosion-resistant sealant to prevent moisture ingress into the fiberglass rod.

All our insulators have undergone rigorous design and type testing according to IEC standards and are certified by NABL-accredited laboratories."

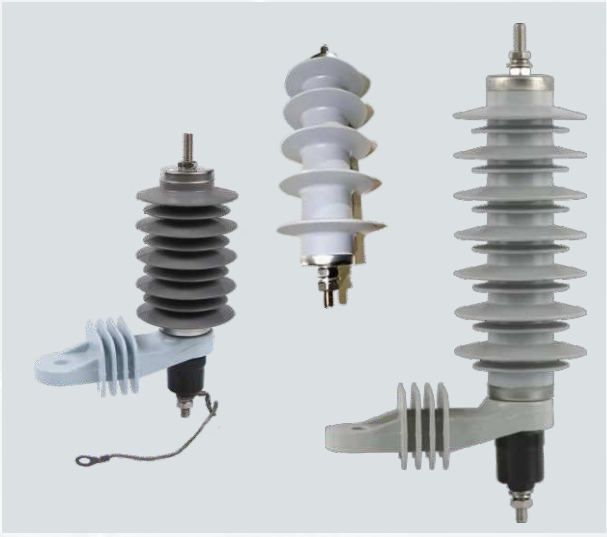
NOTE: Choosing the right end fitting ensures the safety, stability, and longevity of the insulator and the overall power line system you can choose from PIN, Tongue & Clevis, Ball & Socket, Post and Line Post.

Polymeric Lightning Arresters for 11 kV and 33 kV

Rayline polymeric lightning arresters are constructed from premium silicone rubber and feature a robust FRP tube housing a Metal Oxide Varistor (MOV). They come with various mounting bracket options, surge monitors, disconnectors, steel mounting clamps, and more, providing versatile installation solutions.

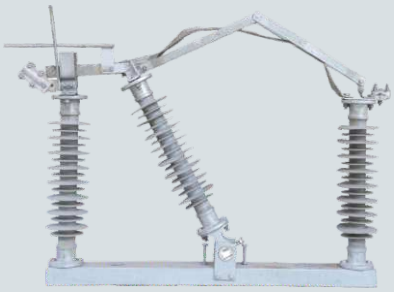
These lightning arresters are engineered to deliver optimal protection for distribution equipment, such as transformers, and other critical assets, safeguarding them from lightning strikes and similar operational hazards.

Designed for superior performance, these arresters excel in surge switching and medium voltage networks. They ensure safe operation in both underground and overhead setups, offering reliable protection even in harsh outdoor conditions over extended periods. Through rigorous precision testing, our arresters are made more durable, dependable, and capable of withstanding demanding environments.



Features:
- Crafted from Premium Silicone Rubber
- Engineered for Use in Highly Polluted Environments
- Lightweight Construction
- Low Maintenance with Easy Cleaning
- Convenient to Transport and Simple to Install
- Superior Weather and UV Resistance
- Hydrophobic Silicone Housing for Enhanced Protection

Polymeric GOAB Switches and Dropout Fuse for 11 kV and 33 kV



Rayline Polymer Air Break Switches are essential components widely used across distribution networks, serving as both isolation and switching points. Designed for flexibility, these switches can be installed in either horizontal or vertical configurations and are available in two-post and three-post models, with a current rating of up to 630 A.

Manufactured and rigorously tested in compliance with the latest IEC standards, Rayline drop-out fuses are crafted using high-quality silicone rubber and copper for durable housing. These fuses are critical for stopping faults and serve as reliable secondary backup protection for the system. Suitable for distribution networks ranging from 11KV to 33KV, they provide protection for transformer center tap lines and HT lines.

Features:
- Factory-Assembled Design for Optimal Field Performance
- Available with Conventional Operating Rod and Handle
- Customizable Design to Meet Specific Requirements
- Low Maintenance with Easy Cleaning
- Easy to Transport and Install
- Exceptional Weather and UV Resistance for Long-Lasting Durability
- Hydrophobic Silicone Housing for Enhanced Protection

LT & HT PANEL

Rayline Connectivity is a trusted manufacturer of high-quality LT and HT panels, designed to meet the most demanding electrical requirements. Our panels are engineered for reliability, efficiency, and safety, ensuring seamless operation across a wide range of industrial, commercial, and infrastructure applications. Our LT and HT panels are built with advanced technology and high-grade materials, offering superior protection for electrical circuits and systems.

They are designed to handle high loads, ensuring optimal performance and protection against faults, short circuits, and overloads. With a focus on user-friendly operation, our panels are easy to install and maintain, providing long-term value and operational efficiency. Whether you're working with medium or low voltage systems, Rayline's panels are tailored to deliver dependable solutions that meet the highest standards of quality and safety.

LINK BOX

Rayline Connectivity offers a comprehensive range of high-quality stainless steel link boxes and sheath voltage limiters, designed to address the full spectrum of HV cable sheath earthing applications for underground power cables ranging from 66 KV to 400 KV. These link boxes are crafted to provide a sealed, dry environment that ensures reliable and long-lasting protection for HV cable sheath earthing systems. Made from durable stainless steel, the link boxes are engineered for easy installation and robust performance, even in the event of sudden faults. Their design enhances both safety and efficiency in underground power cable systems, ensuring seamless operation and minimizing the risk of damage.

Cable Accessories upto 36 kV

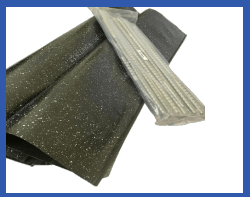
Rayline is a rapidly growing leader in the manufacturing of a comprehensive range of cable accessories. Below, you'll find a diverse selection of cable accessories to suit your specific needs and interests.

HEAT SHRINK ANTI-TRACKING SLEEVE

HEAT SHRINK 3 & 4 WAY BREAKOUT

HEAT SHRINK END CAPS

ALUMINUM LUGS AND FERRULES



WRAPAROUND SLEEVE

BUS-BAR SLEEVES & TAPES

RIGHT ANGLE RMU BOOTS

RIGHT ANGLE TRANSFORMER BOOTS

STRAIGHT TRANSFORMER BOOTS

HEAT SHRINK RAIN SHED

STRAIGHT FLEXIBLE BOOTS

CABLE GLANDS

FRP GRP CABLE CLEATS

MV-T CONNECTOR

SELF-AMALGAMATING TAPE

ENHANCE IT WITH EXPERT INSTALLATION TRAINING

Proper installation is crucial for ensuring long-term performance and grid reliability. Network outages, often caused by incorrect installations, can be costly and disruptive. At Rayline Connectivity, we understand that preventing these issues starts with proper training.

To support our clients, we offer specialized, hands-on installation training designed to optimize product performance and minimize maintenance costs. By partnering with utilities, network operators, and contractors, we empower professionals to avoid common installation pitfalls and ensure their systems run smoothly for years to come.

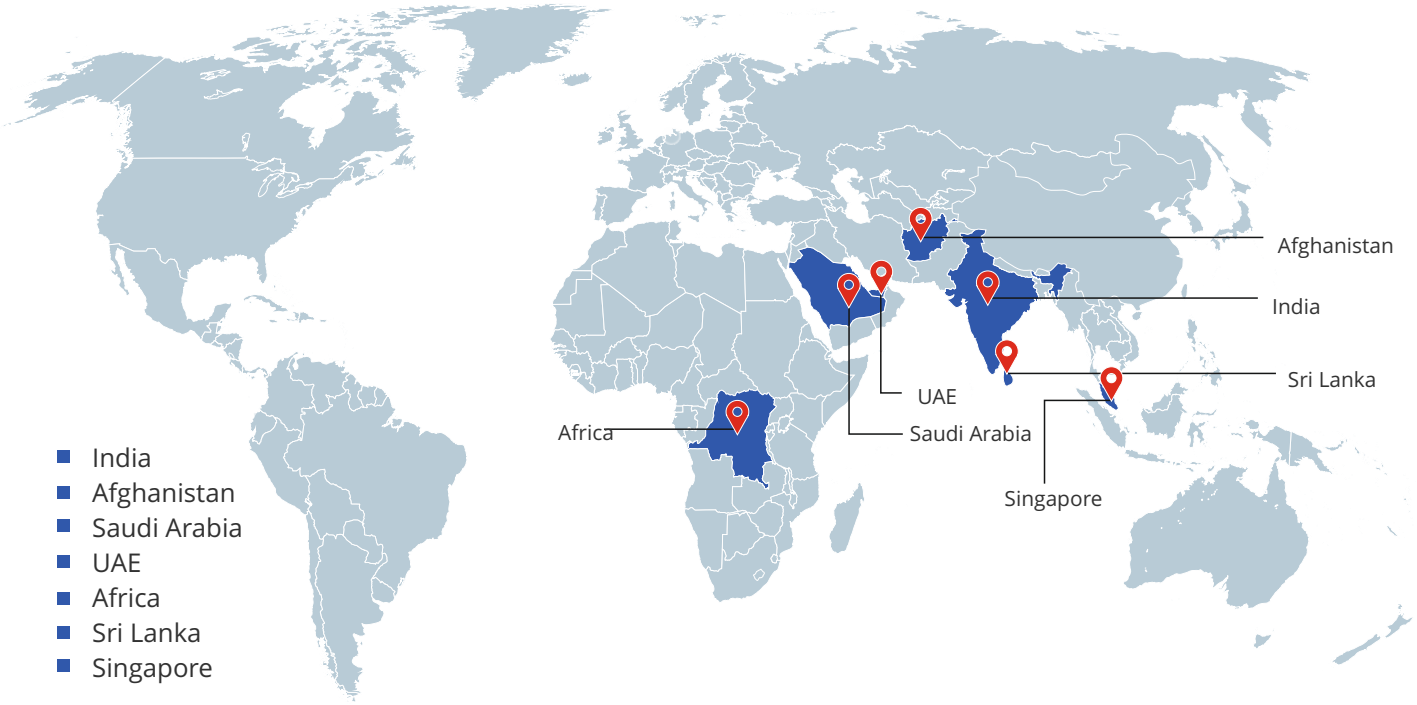
Our expert-led training programs are customized to address the unique needs of each client, enabling teams to confidently install our products and maximize their operational life. By investing in the right training today, Rayline Connectivity helps secure a reliable and efficient network tomorrow.

Benefits of Rayline Connectivity's Installation Training:

1. Enhanced Product Performance
2. Reduced Risk of Network Outages
3. Increased Operational Lifespan
4. Lower Maintenance Costs
5. Expert-Led, Customized Training
6. Increased Confidence and Efficiency
7. Compliance with Industry Standards
8. Support for Contractors and Network Operators
9. Long-Term Reliability and Grid Stability

Our Clientele

Our Global Presence



- India
- Afghanistan
- Saudi Arabia
- UAE
- Africa
- Sri Lanka
- Singapore

RAYLINE®
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