



# Electrical Safety Catalogue

**LEADER IN MANUFACTURING OF SAFETY PRODUCTS**



## About Us

AKTION as a leading manufacturer of premium safety equipment, our mission is to protect and empower workers across diverse industries. Since our founding, we have been steadfast in our commitment to delivering high-quality safety solutions that meet the rigorous demands of today's workplaces. Our product portfolio includes safety shoes, fall protection equipment, protective workwear, safety helmet, products for road safety, Lockout Tagout, each crafted with meticulous attention to detail and engineered for maximum performance. AKTION is dedicated to providing top-tier safety services and products designed to protect lives, enhance operational efficiency, and ensure compliance with stringent safety standards.



# FRP TELESCOPIC DISCHARGE ROD

## Description:

The Telescopic Discharge Rod is a critical safety tool designed for safely discharging residual or induced voltages from high-voltage equipment before inspection, testing, or maintenance. Built with high-dielectric fiberglass, it ensures operator safety while the telescopic design allows flexibility in reaching various working heights. The sections are secured with a bayonet-type locking system, ensuring firm positioning during use and easy extension or retraction. Compact, lightweight, and durable, this rod is widely used in substations, switchyards, and power distribution networks.

## Key features

- ✓ Effectively discharges trapped charges in high-voltage equipment.
- ✓ Extendable sections with bayonet, pintype locking system for secure operation.
- ✓ Fiberglass construction with excellent dielectric properties.
- ✓ Easy to carry, transport, and store.
- ✓ Weatherproof, corrosion-resistant, and suitable for outdoor use.
- ✓ Copper flexible earth cable with heavy-duty clamp.
- ✓ Ergonomic non-slip insulated handle for safe grip.
- ✓ Suitable for transformers, switchgear, substations, and transmission lines.



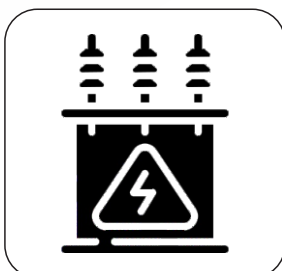
## Technical Specification

Type:	Telescopic Discharge Rod
Voltage Rating:	11 KV to 33KV
Rod Material:	High-dielectric fiberglass, insulated
Locking System:	Bayonet pintype locking mechanism for secure positioning
Clamp Type:	Crocodile teeth type grounding clamp with strong grip
Handle Grip:	Non-Slip, insulated ergonomic handle
Standards	IEC, ASTM
Sections:	3 telescopic sections

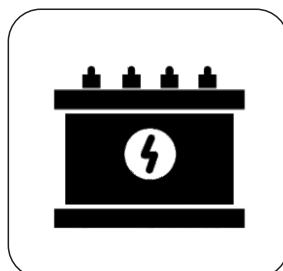
## Ordering details

Model no	Description	
AK-TDR1015	Rod Length : 10ft	Cable Length : 15ft
AK-TDR1025	Rod Length : 10ft	Cable Length : 25ft
AK-TDR1523	Rod Length : 15ft	Cable Length : 23ft
AK-TDR1830	Rod Length : 18ft	Cable Length : 30ft
AK-TDR2025	Rod Length : 20ft	Cable Length : 25ft
AK-TDR2130	Rod Length : 21ft	Cable Length : 30ft

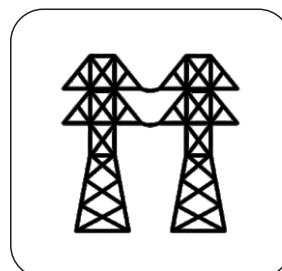
## Industry



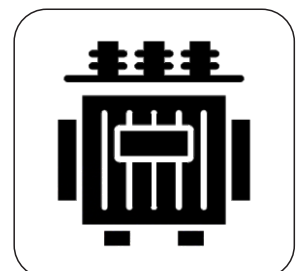
High Voltage Substations



Capacitor Banks



Transmission Lines



Transformers



# INSULATED RESCUE HOOK

## Description:

The Insulated Rescue Hook is a vital safety tool designed for rescuing individuals who have come into contact with live electrical equipment. Made from Fiberglass Reinforced Plastic (FRP) insulation, it provides maximum operator safety by preventing electrical conduction during rescue operations. This tool is a mandatory part of safety equipment in substations, switchyards, and industrial electrical facilities.

## Why Choose Insulated Rescue Hook?

- ✓ Ensures safe distance between rescuer and victim
- ✓ Prevents electrical conduction through operator
- ✓ Lightweight, durable, and easy to handle in emergencies
- ✓ Mandatory equipment in electrical substations & high-voltage areas
- ✓ Built to comply with global safety standards

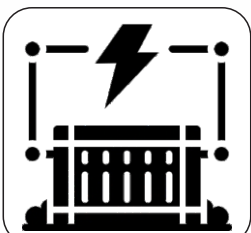
## Key Features

- ✓ FRP insulated pole with high dielectric strength
- ✓ Sturdy curved hook for pulling or lifting a person safely
- ✓ Non-conductive, corrosion-proof & weather resistant
- ✓ Lightweight and easy to deploy during emergencies
- ✓ Rubber base grip for secure handling
- ✓ Long-lasting with minimal maintenance
- ✓ Available in various lengths as per voltage requirements
- ✓ Tested as per / IEC standards
- ✓ Dip coated hook with 18" opening

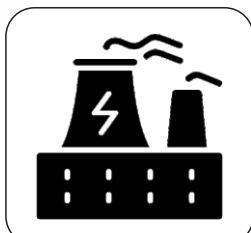
## Technical Specification

Material (Pole)	Fiberglass Reinforced Plastic (FRP)
Hook Material	Dip Insulated coated hook
Dielectric Strength	110KV
Length	6ft
Application Voltage	11KV to 132KV systems
Standards	IEC/ASTM

## Industry



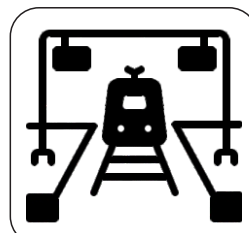
Electrical substations & switchyards



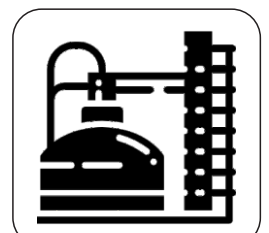
Power plants & distribution networks



Industrial facilities with HV equipment



Railways & metro systems



Oil, gas & chemical plants





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# FRP STATIC DISCHARGE ROD

## Description:

The Static FRP Discharge Rod is designed to safely discharge residual or trapped electrical energy from high-voltage equipment before maintenance. Made of Fiberglass Reinforced Plastic (FRP), it offers high dielectric strength, mechanical durability, and operator safety. This rod is essential for electrical substations, switchyards, and industrial power systems.

## Why Choose Static FRP Discharge Rod?

- ✓ Ensures complete discharge of residual voltage before work
- ✓ Non-conductive FRP construction for maximum operator safety
- ✓ Lightweight and easy to handle during operations
- ✓ Rugged and weather-resistant for outdoor use
- ✓ Complies with electrical safety standards

## Key Features

- ✓ High dielectric FRP rod with strong mechanical strength
- ✓ Shock-proof insulated handle for operator protection
- ✓ Copper alloy discharge head with flexible earthing cable
- ✓ Weather, UV, and corrosion resistant
- ✓ Lightweight and portable design

## Technical Specification

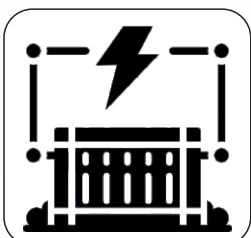
Material (Pole)	Fiberglass Reinforced Plastic (FRP)
Dielectric Strength	220 KV/cm
Length	6ft
Discharge Capacity	11 kV-132 kV (customizable)
Handle	Insulated, ergonomic grip
Accessories	Copper alloy head + Earthing cable
Standards	IEC, ASTM

## Ordering details

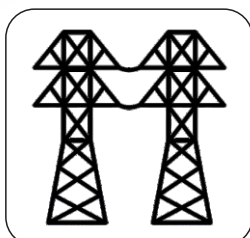
Model no	Description	
AK-SDR0606	Rod Length : 6ft	Cable Length : 6ft
AK-SDR0606	Rod Length : 6ft	Cable Length : 15ft
AK-SDR0606	Rod Length : 6ft	Cable Length : 25ft



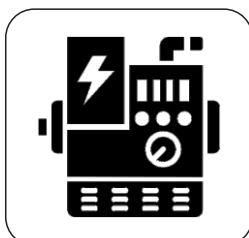
## Industry



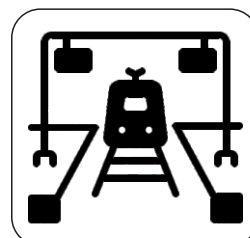
Electrical substations & switchyards



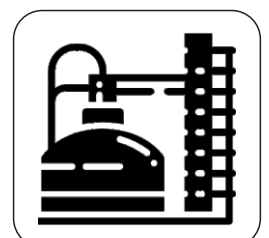
Power transmission & distribution lines



Industrial electrical equipment maintenance



Railways & metro systems



Oil, gas & chemical plants



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# TELESCOPIC FRP LADDER

## Description:

The Telescopic FRP Ladder is designed for safe and efficient access in electrical, industrial, and maintenance applications. Built from Fiberglass Reinforced Plastic (FRP), it provides excellent electrical insulation, high mechanical strength, and resistance to corrosion. Its telescopic design makes it easy to extend, adjust, and store, offering both portability and reliability in demanding work environments.

## Why Choose Telescopic FRP Ladder?

- ✓ One ladder, multiple heights – telescopic adjustment saves cost & storage space
- ✓ Safer than aluminum/metal ladders – non-conductive and shock-proof
- ✓ Portable & easy to store – collapses into compact size for transport
- ✓ Weather & corrosion resistant – suitable for indoor and outdoor use
- ✓ Long-term investment – durable with low maintenance needs

## Key Features

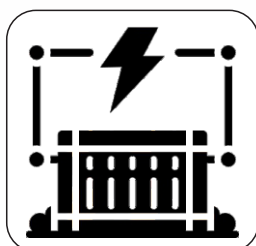
- ✓ FRP construction with high dielectric strength
- ✓ Telescopic design – adjustable height and Light Weight
- ✓ Non-conductive, shock-proof, and fire-resistant
- ✓ Strong side rails for stability
- ✓ Anti-slip rungs for worker safety
- ✓ Good electrical and mechanical properties

## Technical Specification

Material	Fiberglass Reinforced Plastic (FRP)	Closed Length	Around 6ft or Less
Dielectric Strength	170 KV	Load Capacity	100 to 150 kg
Rungs	Non-slip FRP steps	Weight	5 kg to 20kg (Depends on size)
Extended length	10Ft to 29Ft	Standard	IEC, ASTM



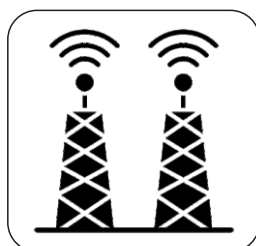
## Industry



Electrical substations  
& utilities



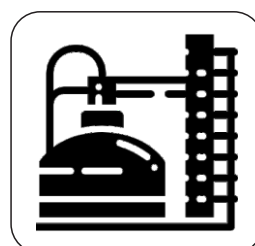
Industrial maintenance  
& inspection



Telecom towers & industrial  
plants



Building maintenance &  
repair



Oil, gas & chemical  
plants



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# FRP EXTENSION LADDER

## Description:

The FRP Extension Ladder with Aluminium Rungs is designed for professionals requiring safe and reliable access at elevated heights. Constructed with Fiberglass Reinforced Plastic (FRP) side rails and high-strength aluminium rungs, it combines excellent electrical insulation with mechanical durability. The extension design allows adjustable height, making it suitable for industrial, electrical, and utility applications.

## Why Choose FRP Extension Ladder?

- ✓ Provides safe access near live electrical equipment
- ✓ Height adjustable for versatile use in different tasks
- ✓ Combines lightweight aluminium rungs with insulated FRP rails
- ✓ Corrosion and weather resistant for long outdoor service
- ✓ A cost-effective alternative to metal ladders in high-risk environments

## Key Features

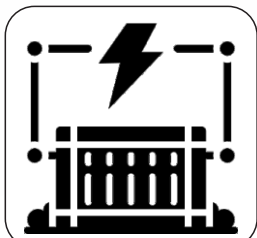
- ✓ Non-conductive FRP side rails ensure operator safety
- ✓ Lightweight aluminium rungs with anti-slip design
- ✓ Smooth extension & locking mechanism for easy operation
- ✓ Resistant to corrosion, fire, and UV exposure
- ✓ Strong stabilizer feet for firm ground grip
- ✓ Compact storage when retracted
- ✓ Good electrical and mechanical properties

## Technical Specification

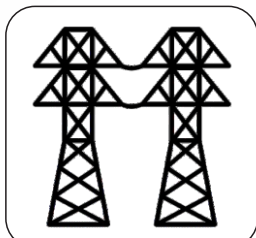
Material (Rails)	Fiberglass Reinforced Plastic (FRP)	Closed Length	Depend on Size
Material (Rungs)	D-shape high-strength Aluminium	Load Capacity	80 kg to 150 kg and above (depends on size)
Design	2 sections of extension ladder	Standard	IEC, ASTM
Extended length	10ft to 36ft (Customizable)		



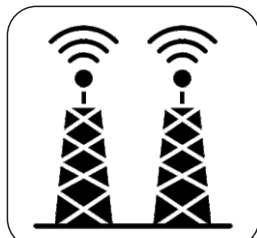
## Industry



Electrical substations  
& utilities



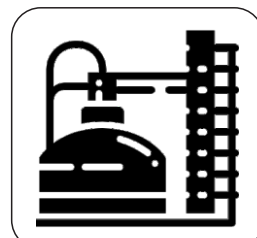
Power distribution  
& maintenance



Telecom towers & industrial  
plants



Building maintenance &  
repair



Oil, gas & chemical  
plants





#### Corporate Office

📍 C-74, Sector 5, Bawana Industrial Area, Delhi - 110039  
☎ +91 11 4994 8243      ✉ Info@aktionsafety.com  
☎ + 91 9811587673      ✉ rajesh@aktionsafety.com  
☎ + 91 9953724203      ✉ ashish@aktionsafety.com

#### North Region

☎ + 91 9313644643      ✉ umesh@aktionsafety.com

#### East Region

☎ +91 9903975602      ✉ abhishek@aktionsafety.com

#### West & South Region

☎ +91 9999097100      ✉ Prateek@aktionsafety.com

🌐 [www.aktionsafety.com](http://www.aktionsafety.com)

# AKTION SAFETY SOLUTIONS PVT. LTD.