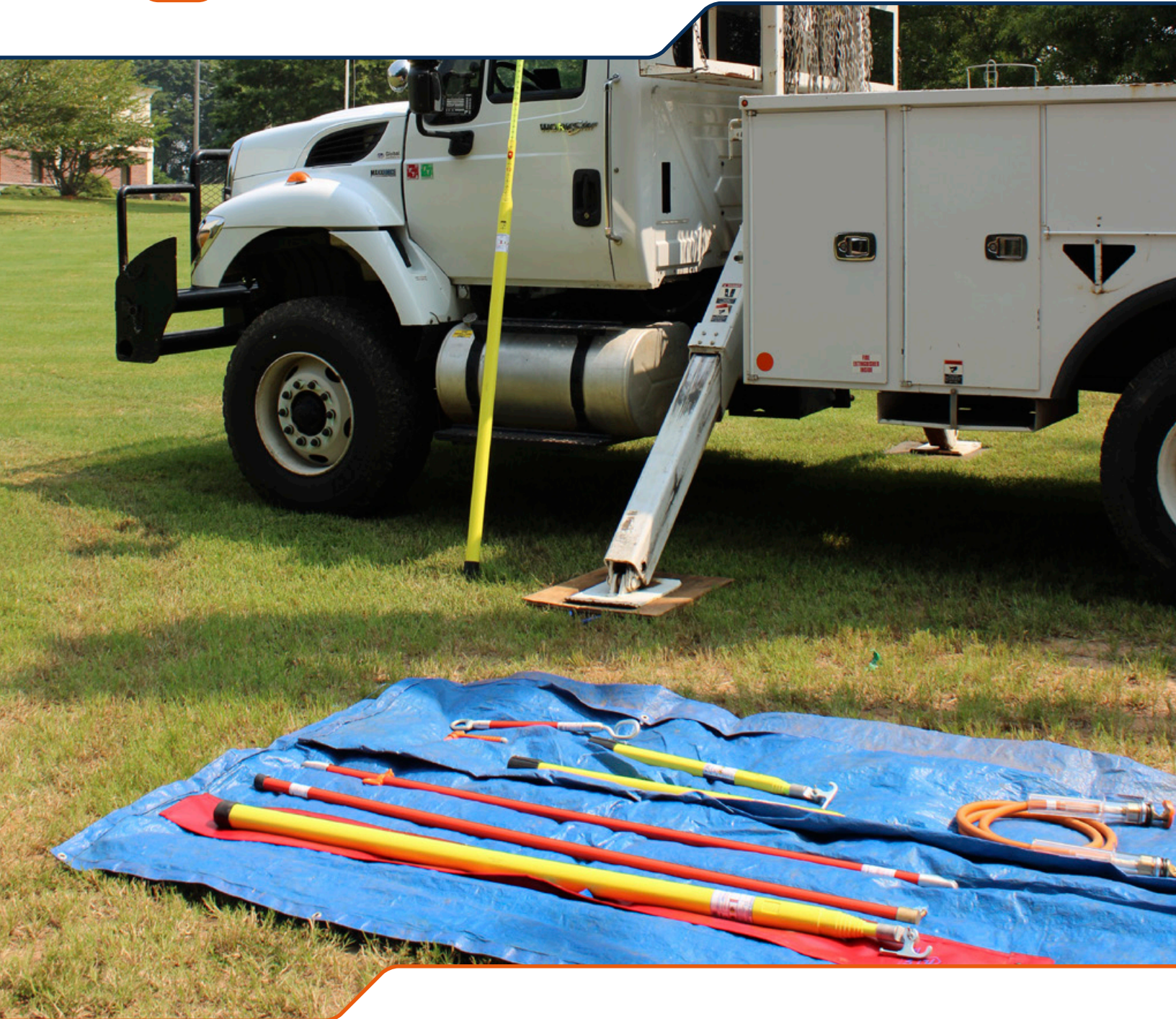




**PENTA**  
ELECTRICAL SAFETY PRODUCTS

CATALOG 2023-2024



# ELECTRICAL SAFETY PRODUCTS

(980)265-2612  
info@pentaesp.com  
www.pentaesp.com

Tools designed for Safety & Performance

## Dear Customer, Partner, and Electrical Worker,

In over 90 years of innovation, acquisitions, and organic growth, a significant number of brands have joined us, strengthening our expertise in electrical safety.

We decided to bring all our electrical safety products under a single brand that brings together our shared and complementary expertise, we affirm that our strategy firmly focused on you, by making it easier for you to navigate our extensive offer.

We are delighted to announce that PENTA is our new umbrella brand. It now encompasses all our products and services.

*With PENTA, we aim to reinforce our unique positioning as "Expert Manufacturer".*

Now, under the PENTA brand, we bring together all our energy, all our combinations of product and service offerings, serving you with five brands:



### PROTECT

For the Personal Protective Equipment (PPE) and Personal Protective Clothing (PPC) required for personal safety, to protect oneself and the environment.



### SECURE

For all the equipment required for lockout/tagout procedures (low, medium, and high voltage). To provide you with the necessary equipment for working on live systems in low, distribution and transmission voltage environments.



### WORK

For all precision and safety-oriented tools, as well as the necessary equipment for the construction and maintenance of networks.

PENTA affirms our ambition to continue deploying an expanded range of innovative and sustainable products, with solutions specifically designed to address each situation you may encounter locally. We draw upon and capitalize on the experience of our international network.

## TO SERVE YOU AND TO SERVE THE PLANET.

### WHAT'S CHANGING ?

- Our former brands have merged to form our new brand, PENTA, accompanied by the 5 flagship brands
- We are thrilled to announce soon the launch of our new website: [www.pentaesp.com](http://www.pentaesp.com), where you can explore our offering
- All our communication supports and materials have been redesigned and transformed to reflect the new colors of the PENTA brand

*We would like to draw your attention to the gradual transition of our products and packaging to bear these new brands. As a result, during the next 18 months, some products, packaging, and marketing material may still be delivered with our previous historical brands.*

### WHAT REMAINS UNCHANGED

- The part numbers of our products that you are familiar with will remain the same
- The characteristics of these products remain unchanged
- Your usual contacts and representatives are still available
- The legal names of our various subsidiaries remain unchanged (company name, zip code, address, phone number, EIN, ...)

PENTA solidifies our commitment to strengthening our service quality and innovating in the design and manufacture of increasingly high-performance products, in accordance with the standards and certifications applicable in your country.

**Our core mission will always be, by your side, to contribute to preserving the health and safety of ALL those who build, operate, and maintain electrical networks.**

Telescoping Stick .....	3
Telescoping Measuring Stick .....	4
Clampstick.....	5
Fiberglass .....	6
Sectional Stick.....	7
Insulated Rescue Hook & Hot Sticks Bags .....	8
Hot Stick Field Inspection Tool .....	9
Insulated Jumper Clamps.....	10
Load Break Tools .....	11
Live Line Insulator Tester.....	12
Voltage Detectors .....	13
Voltage Detector Current Indicator .....	14
Voltage Proof & DC Voltage Detector.....	15
Personal Voltage Detectors .....	16
Meters & Devices .....	17
Low Voltage Detectors .....	18
Cable Preparation Tools .....	19-21
Insulated Tools.....	22-27
Insulated Tool Kits .....	28-30
Gloves Accessories.....	31
Insulating Platform & Accessories .....	32
Crimping Tool And Hydraulic Press .....	33
Coming Soon.....	34
Replacement Parts.....	35-37

**PENTA Electrical Safety Products, LLC**, is a leader in electrical safety products manufacturing. Based on over 90+ years of experience, we made a commitment to the electrical workers to design and manufacture the highest quality tools to protect the people and the network. The North American location established in 2017 with headquarters in Charlotte, NC. Our factories have many years of experience and our engineers understand how to support and fulfill your electrical safety needs and requirements.

Our focus is to better serve the utility and industrial markets. From the site generation of electricity through transmission and distribution, both overhead and underground, our products have been designed to safely and efficiently help electrical workers do their jobs! In addition, PENTA ESP provides a wide range of products to service the railway industry.

**PENTA Electrical Safety Products, LLC**  
 8100 Arrowridge Blvd, Suite G  
 Charlotte, NC, 28273



## Pentagonal shaped Telescoping Stick

The unique curved pentagonal shape fits comfortably in hand, while remaining close to a cylindrical shape commonly used. This shape is used to transmit torque force during any operation requiring an action of tightening or loosening. Complies with ASTM F1826 / IEC 61235 standards. The terminal tube is a round tube built on a rigid, waterproof polyurethane foam. The circular terminal tube's shape meets all requirements of the ASTM F711 / CEI60855-1 standards. The locking elements are self-searching when stick is deployed by sturdy bi-material button.

Pultruding over the foam core ensures better adhesion to the inside walls of the stick and there are no voids between the fiberglass and foam core. The pentagonal shape of the base sections keeps sections in alignment with one another without rotation, ensuring that the spring-loaded locking system will always find its place while extending. With its new and improved design, the Pentapole has a 15% higher mechanical strength, and is 13% lighter than previous generation product.

- Developed a structural finish that further improves the mechanical properties of the tubes that are used for our poles to further increase their **longevity**
- Our finishing varnishes increase the UV resistance, water resistance and oil resistance properties of the surface of our tubes
- More ergonomic tools that reduce Musculoskeletal Disorder related injuries



Ergonomically designed grip



Locking button

### Telescoping Sticks - 1-1/8" dia. top section

Part Number	Description	Number of Sections	Retracted Length (ft)	Weight (lbs)
PPOL3/12H-PTA	12' Hot Stick Telescoping Pentagonal Shape	3	4'8"	4
PPOL4/16H-PTA	16' Hot Stick Telescoping Pentagonal Shape	4	4'11"	5
PPOL5/20H-PTA	20' Hot Stick Telescoping Pentagonal Shape	5	5'2"	6
PPOL6/25H-PTA	25' Hot Stick Telescoping Pentagonal Shape	6	5'4"	8
PPOL7/30H-PTA	30' Hot Stick Telescoping Pentagonal Shape	7	5'7"	10
PPOL8/35H-PTA	35' Hot Stick Telescoping Pentagonal Shape	8	5'10"	11
PPOL9/40H-PTA	40' Hot Stick Telescoping Pentagonal Shape	9	6'	14

PPOL6/25H-PTA

### Compact Telescoping Sticks - 1-1/8" dia. top section

Part Number	Description	Number of Sections	Retracted Length (ft)	Weight (lbs)
PPOLC5/08H-PTA	8' Compact Hot Stick Telescoping Pentagonal Shape	5	2'4"	3.3
PPOLC5/12H-PTA	12' Compact Hot Stick Telescoping Pentagonal Shape	5	3'5"	4

### Heavy Duty Telescoping Sticks - 1-1/4" dia. top section

Part Number	Description	Number of Sections	Retracted Length (ft)	Weight (lbs)
PPOLD5/20H-PTA	20' Hot Stick Telescoping Pentagonal Shape - Heavy Duty	5	5'3"	9
PPOLD6/25H-PTA	25' Hot Stick Telescoping Pentagonal Shape - Heavy Duty	6	5'5"	10
PPOLD7/30H-PTA	30' Hot Stick Telescoping Pentagonal Shape - Heavy Duty	7	5'9"	11
PPOLD8/35H-PTA	35' Hot Stick Telescoping Pentagonal Shape - Heavy Duty	8	5'9"	14

## Universal Disconnect Hook (CMU2)

Is used for opening and closing switches, and cutouts.



CMU2

## Universal Fuse Holder (UFH)

Is designed to safely remove or install overhead fuse tube barrels.



UFH

## Pentagonal Shaped Telescoping Measuring Stick

The Penta Pole measuring stick has measurement graduations on each section allowing to easily measure any heights range from 25 feet to 40 feet.

### Round terminal tube ASTM F711 / CEI60855-1

The terminal tube is a round tube built on a rigid, waterproof polyurethane foam. The circular terminal tube's shape responds fully to the scope and requirements of the ASTM F711 / CEI60855-1 standards.

### Weight / Stiffness

Each stick's component is manufactured to optimize its modulus of elasticity as well as its weight.

### Shape

The unique curved pentagonal shape fits comfortably in the hand, while remaining close to a cylindrical shape commonly used for poles. This shape is used to transmit torque efforts during any operation requiring an action of tightening or loosening. Measurements are sublimated onto the stick, measurement identifiers won't crack, peel, rub off, or wash away.

### Locking button

The locking elements lock in place automatically when deploying the pole by a wide sturdy bi-material button. Unlocking and folding is achieved by a simple pressing of the button.

Telescoping Measuring Sticks - 1-1/8" dia. top section

Part Number	Description	Number of Sections	Retracted Length (ft)	Weight (lbs)
PPOLM6/25H-PTA	25'-2" Measuring Stick Telescoping Pentagonal Shape	6	5'4"	8
PPOLM7/30H-PTA	29'-10" Measuring Stick Telescoping Pentagonal Shape	7	5'7"	10
PPOLM8/35H-PTA	34'-7" Measuring Stick Telescoping Pentagonal Shape	8	5'10"	11
PPOLM9/40H-PTA	39'-4" Measuring Stick Telescoping Pentagonal Shape	9	6'	14

Call customer service if the metric numbers are required.

### Technical specifications:

Telescopic insulating stick composed of:

- 6 to 9 pentagonal shaped tubes compliant with standards ASTM F1826 and IEC 62193, each section has imperial or metric numbers
- 1 foam cored upper tube, 1-1/8" (28 mm) in diameter, compliant with standards ASTM F711 and IEC 60855-1
- 1 base to protect the end of the stick
- 1 universal end fitting to fix multiple accessories and adapters
- 1 operating hook

### Prevent Pinching your glove

New button design in bi-material is a combination of a polyacetate body to stiffen and a TPU housing to absorb shock.



Ergonomically designed grip

Unrivalled light weight

Exceptional rigidity

Top foam core tube



## Clampstick - External Rod with or without Universal Adapter

The Clampstick is the most universal tool used to install and remove personal protective grounding clamps, to install plastic and rubber cover-up equipment, etc. Insulating tubes pultruded fiberglass over the closed cell foam core. Pole diameter 1.25" (32mm) operating rod 3/8" (10mm).

Manufactured in accordance with ASTM F711 and IEC60855-1 standards.

Clampsticks meet ASTM F1825 standard.

Available with or without universal ending, supplied with a coated suspension hook.

Clampstick - External Rod with Universal Adapter			
Part Number	Description	Length	Weight (lbs)
PCT46UE-PTA	Clampstick - Universal Head	4'6"	4
PCT66UE-PTA	Clampstick - Universal Head	6'6"	5
PCT86UE-PTA	Clampstick - Universal Head	8'6"	6
PCT106UE-PTA	Clampstick - Universal Head	10'6"	7
PCT126UE-PTA	Clampstick - Universal Head	12'6"	8

Clampstick - External Rod			
Part Number	Description	Length	Weight (lbs)
PCT46UE-PTA	Clampstick	4'6"	4
PCT66UE-PTA	Clampstick	6'6"	5
PCT86UE-PTA	Clampstick	8'6"	6
PCT106-PTA	Clampstick	10'6"	7
PCT126-PTA	Clampstick	12'6"	8

Replaceable Clampstick Hanger Hook Hot Stick	
HPCT32-PTA	Coated Hanger Hook For 1-1/4" Stick

## Replaceable Clampstick Hanger Hook Hot Stick (HPCT32-PTA)

Coated Hanger Hook For 1-1/4" Stick

## Universal Shotgun/Clampstick Adapter (UCR)

Allows for any clampstick "Shotgun" to be converted to a universal head attachment. The adapter secures in the clampstick hook and head housing.

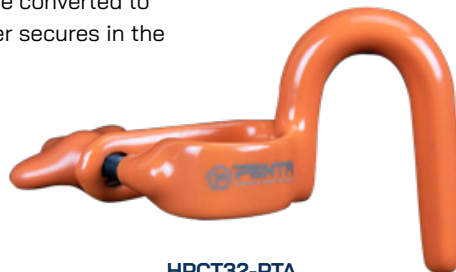


PCT66UE-PTA  
(Universal)



Rubber  
End Cap

Sticks do not require field stripping to clean. All insulated parts including the operating rod are outside the main pole, readily accessible to wipe dry.



HPCT32-PTA



UCR



PCT66-PTA

## Universal Hot Stick

Insulating foam cored fiber reinforced stick (dia. 1.25"), orange color with universal end.

Pole diameter 1.25" (32mm).

Manufactured in accordance with ASTM F711 and IEC60855-1 standards.

### Hot Stick With Universal End Fitting on One End

Part Number	Dimensions		Weight (lbs)
	Length	Diameter	
US4SU-PTA	3'-9"	1.25"	2.6
US6SU-PTA	5'-9"	1.25"	3.3
US8SU-PTA	7'-10"	1.25"	4.0
US10SU-PTA	9'-10"	1.25"	4.6
US12SU-PTA	11'-10"	1.25"	5.3

### Hot Stick With Universal End Fitting on Both Ends

Part Number	Dimensions		Weight (lbs)
	Length	Diameter	
US4DU-PTA	3'-9"	1.25"	2.6
US6DU-PTA	5'-9"	1.25"	3.3
US8DU-PTA	7'-10"	1.25"	4.0
US10DU-PTA	9'-10"	1.25"	4.6
US12DU-PTA	11'-10"	1.25"	5.3

## Switch Stick

Insulating foam cored fiber reinforced stick (dia. 1.25"), orange color with universal end.

Pole diameter 1.25" (32mm).

Manufactured in accordance with ASTM F711 and IEC60855-1 standards.

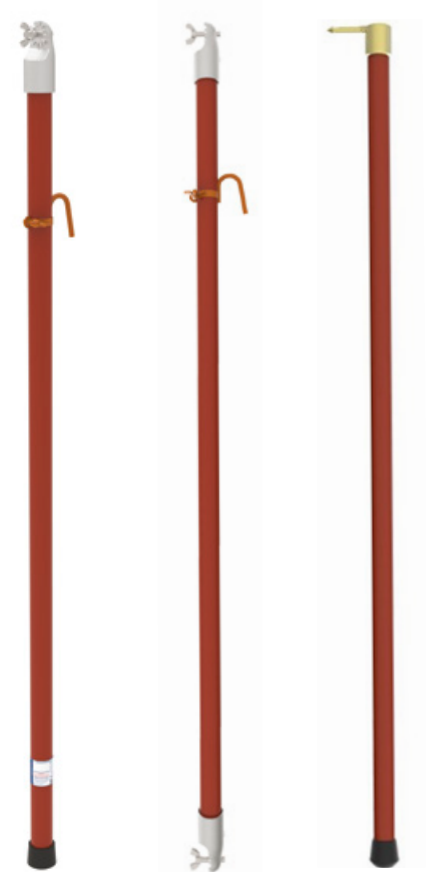
### Switch Stick

Part Number	Description	Pole Dia	Length (ft)	Weight (lbs)
SS6-PTA	Switch Stick 6'	1.25"	6'	3.3
SS6U-PTA	Switch Stick 6' With Universal Head on one end	1.25"	6'	3.3
SS8-PTA	Switch Stick 8'	1.25"	8'	4.0
SS8U-PTA	Switch Stick 8' With Universal Head on one end	1.25"	8'	4.0
SS10-PTA	Switch Stick 10'	1.25"	10'	4.6
SS10U-PTA	Switch Stick 10' With Universal Head on one end	1.25"	10'	4.6
SS12-PTA	Switch Stick 12'	1.25"	12'	5.3
SS12U-PTA	Switch Stick 12' With Universal Head on one end	1.25"	12'	5.3

For other length sticks contact customer service.

The universal stick allows the use of the universal tools.

Tools can be mounted on one or both ends of the stick.



US6SU-PTA

US6DU-PTA

SS6-PTA



## Universal Sectional Fiberglass Stick

When storage space is limited, and there is a need for sturdy fiberglass insulated stick. PENTA ESP Sectional Fiberglass Sticks are available in various 2 and 3 sections variations. Every section is pultruded over the closed cells core to provide the maximum adhesion to the fiberglass. Aluminum connectors allow for quick and easy assembly and provide strong operating connection.

Pole diameter 1.25" (32mm).

Manufactured in accordance with ASTM F711 and IEC60855-1 standards.

- All 3 sections sticks may also be used as 2 sections
- 1½ dia. fiberglass stick with universal end fitting
- Temperature range -15° F to 130° F
- Sectional Stick meet ASTM F1825 standard

Universal Sectional Fiberglass Stick				
Part Number	Number of Sections	Each Section Length (ft)	Total Length (ft)	Weight (lbs)
LW03-09-2-6-PTA	2	3'	6'	3.3
LW03-09-2-8-PTA	2	4'	8'	4.3
LW03-09-2-12-PTA	2	6'	12'	5.5
LW03-09-3-9-PTA	3	3'	9'	5.1
LW03-09-3-12-PTA	3	4'	12'	6.5
LW03-09-3-15-PTA	3	5'	15'	8.4

Contact Penta ESP for different length or length combinations requirements.



## Insulated Rescue Hook

PENTA Rescue Hooks are specifically intended for safety and rescue purposes and can be an indispensable life-saving device. Suggestions where these devices should be readily available include switchrooms, substations, plant rooms, generator rooms, UPS battery rooms, confined spaces, and in any area with electrical hazards potentially requiring the emergency withdrawal of an injured worker.

Insulated Rescue Hook is constructed from foam cored fiberglass handle for unquestionable electrical insulation and stainless-steel heat-treated body hook with an 18" opening. Robust 0.5" (12.5 mm) diameter stainless steel rod allows for lighter weight and ease of hook inspection for mechanical damage. This tool is rated for handling up to 300 lbs person.

- The stick is available in the standard length of 6- and 8-foot. Other lengths are available on request
- The fiberglass stick meets the requirements of ASTM F711

Insulated Rescue Hook		
Part Number	Dimensions Feet (meters)	Weight Lbs (Kg)
RH6-PTA	6' (1.8)	4.0 (1.8)
RH8-PTA	8' (2.4)	4.5 (2.0)



## Hot Stick Bags

Hot stick bags are constructed of heavy-duty vinyl material with double stitched seams. Storage bags have reinforced carrying handle and double snap closure flap.

Our Compact Hot Stick Bags have a grommet at the top of the bag for mounting outside of the bucket for easy retrieval.

Compact Hot Stick Bags	
Part Number	Pocket OAL (in)
PPOLC5/08H-BAG	26"
PPOLC5/12H-BAG	49"

Hot Stick Bags	
Part Number	Pocket OAL (in)
STICKBAG-6	77"
STICKBAG-7	89"
STICKBAG-9	113"



# HOT STICK FIELD INSPECTION TOOL



## Foam Cored and Foam Filled Insulated Hot Stick Field Inspection Tool

The TTR<sup>2</sup> is a mobile device designed for field inspection, allowing to inspect the electric insulation's defects or cleanliness of equipment before using, or within the preliminary frame of the periodical and inspection. (Not to be used by the test laboratory to meet OSHA requirements for repaired/resurfaced hot sticks.)

TTR<sup>2</sup> is a multi-functioning device, TTR<sup>2</sup> will also inspect fiberglass rod and insulating rope.

Minimum stick length for testing is 6".

Can inspect link sticks.

### Use

- The Field Inspection Tool checks the insulating quality of your poles
- The unit does not only identify surface defects. Its capacitive principle of measurement allows to detect internal and external insulation faults
- If the green light appears, the stick dielectric property is passed as rated as per Standard ASTM F711 and IEC 60855-1, that is to 100kV per foot
- It provides in-depth control which makes it a unique device

### Product Information:

- Full internal self-test which tests all active parts of the unit
- Self test with external test tube
- Light indication bar graph with crossing the green area to red in case of default
- Operating temperature -5° F to +113° F

### Oriented for mobility:

- Rechargeable battery-operated device
- Low battery indication and battery charge indication
- Compact and robust
- 100% safe device => no danger for the user
- Less than 5 minutes to test your hot sticks in the field



## Hot Stick Field Inspection Tool

TTR2LWPTA

Insulating stick and rope inspecting device

### Technical specifications

- Calibrated for the following diameters: - 5/16" – 3/4", 1 1/4", 1 1/2", 2", 2 1/2" and 3"
- Calibrated to test 3/8" and 5/8" diameters rope
- Power supply by rechargeable battery
- Adapter 100V-240V 50/60 Hz
- Delivered in robust carrying case with adapter and the tube
- Dimensions: Tester - 7.5" x 4.75" x 5.3"

Weight: 3.4 lbs.

The control diameters are designed for all foam filled and foam-cored tubes insulating sticks.

TTR2LWPTA



## Insulated Jumper Clamps

It is a natural phenomenon that the electrical lines vibrate for the various reasons. Jumper sets left online for the extended period may become loose. In some instances, clamps can move out of the applied position. Loose jumper clamps may cause fires and power outages. Use of wrenches or pliers to secure traditional clamps tighter on conductors is common, but due to the vibration and thermal cycles, clamps still may become loose. PENTA's patent pending heavy-duty spring-loaded clamp will prevent clamps from becoming loose.

The pentagonal shape of these new PENTA Jumper Clamps fit better in the workers hand making them more ergonomic and also provides far better torque strength when compared to traditional jumper clamps.

All insulated jumper clamps are manufactured in shatter resistant clear plastic. The body and jaw are made from copper base alloy.

- All jumper clamps meet ASTM F2321 standard
- Assemble these clamps with 5/8"-11NC threaded ferrules

Clamps will function with the following insulated cable:

- 15 kV and 25 kV - #2, 1/0, 2/0, 4/0
- 35 kV – up to 2/0



**NEW  
PRODUCTS**

**Insulated  
Jumper  
Clamps  
Available  
in Q4 2023**



Ergonomically designed grip

### Insulated Jumper Clamps

Part Number	Description	Main Line Range	MAX AMPS Continuous Current	Rating	OAL Length In (mm)	Weight EA Lbs (kg.)
<b>JUMP-477-S</b>	Clear Spring-Loaded Jumper clamp	477 MCM (.9"-.162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	12.5" (317)	2.4 (1.1)
<b>JUMP-477</b>	Clear Jumper Clamp	477 MCM (.9"-.162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	12.5" (317)	2.1 (.95)
<b>JUMP-954-S</b>	Clear Spring-Loaded Jumper clamp	954 MCM (1.25"-.162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	13.25" (336)	2.9 (1.3)
<b>JUMP-954</b>	Clear Jumper Clamp	954 MCM (1.25"-.162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	13.25" (336)	2.4 (1.1)

Portable Load Break Tool

Is designed with the lineman in mind. It is used in operation of disconnects, load break switches, capacitor banks, fuse limiters, power fuses and cutouts. It is simple to use and allows for exceptional control to reduce operator fatigue. The PENTA ESP Load Break Tool is equipped with a reset handle, which allows full tool reset without glove removal. It will help to cut installation and operation costs and will eliminate the need of load interrupters on each device. The procedures for switching are designed to reduce complications and to minimize the duration and scope of outages. The PENTA ESP Load Break Tools comply with OSHA 29 CFR Part 1910.269 – “Devices used to open circuits under load Conditions shall be designed to interrupt the current involved”.

1910.269(l)(12)(i)

The employer shall ensure that devices used by employees to open circuits under load conditions are designed to interrupt the current involved.

Portable Load Break Tool			
Part Number	Voltage	Amperage	Weight (lbs)
LBT1427C	Nominal 14.4kV / 25kV - Maximum 27kV	Nominal 600A - Maximum 900A	4.65 lbs, with case
LBT2538C	Nominal 25kV / 34.5kV - Maximum 38kV	Nominal 600A - Maximum 900A	5.5 lbs, with case



## Live Line Insulator Tester IT500 and IT500W

The Live Line Insulator Tester IT500 and IT500W are the instruments designed to live line testing of ceramic, porcelain, or glass insulator strings, in energized voltage lines up to 500kV.

The IT500 and IT500W are user friendly, just power-on the instrument and it is ready to test. The 1" tall and high contrast LED indication is easy to read at distance and under direct sunlight.

### IT500

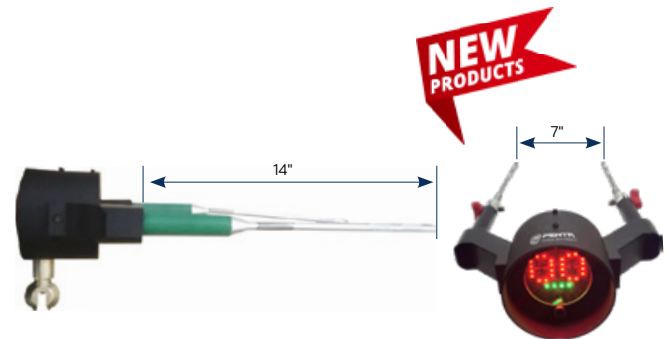
- Live measurements reading
- Requires drawing graph to analyze Wi-Fi model, remote readings

### IT500W included

- No need to download an app
- Can be used by any smartphone, tablet, or PC
- Live measurement reading
- Remote readings up to 130 ft
- Curves can be saved in CSV format
- Blinking indicator on the probe to indicate correct data acquisition
- Access to user manual and lab test report storages in the probe

### SPECIFICATIONS

- **Line voltage:** Auto-range from 10kV to 500kV
- **Indication:** Two 1" digits, high contrast digital LED's, easy readable in direct sunlight
- 14" Length adjustable probes, with mechanical fuse, to avoid breaks during operations in harsh environments
- Operating temperature -4° F to +122° F
- Durable aluminum case
- Universal splice
- **Battery:**
  - Type: Rechargeable AA, 2800 mAh
  - Autonomy: over 10 hr
  - Charge time: < 3 hrs
  - Battery charge indication
- **Weight:** 1.3 lb. with battery



### Live Line Insulator Tester

Part Number	Description
IT500	Insulator Tester
IT500W	Insulator Tester with Wi-Fi remote readings

## Voltage Detectors

These voltage detectors are designed for “proving dead”, making sure that nominal voltage is actually absent on a circuit in an HV distribution system between 1kV and 69kV (no-voltage verification): Comes in a storage bag or metal case.

- The device detects any nominal voltage in a system or station.
- It makes it possible to avoid detecting induced voltages in order to allow earthing operations
- The visual indication is visible in all normal working conditions, in sunlight or fog, with a wide angle of visibility and from the side
- The 100dB sound signal, at 3 ft, is designed to remain audible even in traffic or strong wind, thanks to its acoustic “horn”
- The device will detect if the line become de-energized

Direct access to the battery and sealed electronics compartment. When the battery is replaced, this design prevents the following:

- Accidental interchange of housing or circuitry;
- Damage to electronic circuits;
- Humidity ingress into the device when the battery is replaced outdoors

**Range customizable from 1kV to 69kV**

**The tool exists in 3 versions:**

- MDV1: Single Range from 1kV to 69kV\*
- MVDDR1: Dual Range from 1kV to 69kV – 2 separate ranges with their related thresholds\*
- MVDX: Multi Range from 1kV to 69kV – Up to 3 Devices in 1\*



Electric Voltage Detectors	
MVD1-GNG-C0425XHUC-PTA	Voltage Detector Single Range to 25kV
MVD1-GNG-C2560XHUC-PTA	Voltage Detector Single Range 25kV to 60kV
MVD1-GNG-C1235XCUC-PTA	Voltage Detector Single Range 12kV to 35kV
MVDDR1-GNG-C0469XHUC-PTA	Voltage Detector Dual Range 4kV to 23kV & 34 to 69kV
MVDDR1-GNG-C0434XHUC-PTA	Voltage Detector Dual Range 4kV to 13kV & 13 to 34kV
MVDDR1-GNG-C0435XHUC-PTA	Voltage Detector Dual Range 4kV & 13 to 35kV
MVDX1-GNG-C0469XHUC-2PTA	Voltage Detector Multi Device 4kV to 13kV, 13kV to 35kV & 35kV to 69kV
ADVECU	Replaceable Adaptor For Different Sticks End Fitting
ADVECUCR	Replaceable Adaptor For Different Sticks End Fitting

**When placing order, indicate choice of storage bag or metal case to protect the unit.**



## Voltage Detectors

These voltage detectors are designed for “proving dead”, making sure that nominal voltage is actually absent on a circuit in an HV transmission system between 50kV and 765kV (no-voltage verification): The device will detect any nominal voltage on overhead lines and stations. It will avoid detecting most induced voltages in order to allow grounding operations.

Optimized indication that can be understood clearly in all working conditions:

- The visual indication is visible in all usual working environments, in sunlight or fog, with a wide angle of visibility and from the sides due to the optic ring design
- The acoustic horn design amplifies signal to 100dB to remain audible even in noisy environment

Direct access to the battery and sealed electronics compartment. When the battery is replaced, this design prevents the following:

- Accidental interchange of housing or circuitry
- Damage to electronic circuits
- Humidity ingress into the device when the battery is replaced outdoors



Range customizable  
from 50kV to 765kV

HVD1-GNG-C060220XHUC-PTA

High Voltage Detectors	
HVD1-GNG-C060220XHUC-PTA	HVD1 High Voltage Detector 60kV to 220kV
HVD1-GNG-C220500XHUC-PTA	HVD1 High Voltage Detector 220kV to 500kV
HVD1-GNG-C069230XHUC-PTA	HVD1 High Voltage Detector 69kV to 230kV
ADVECU	Replaceable Adaptor For Different Sticks End Fitting
ADVECUCR	Replaceable Adaptor For Different Sticks End Fitting

## Iprobe CURRENT FLOW PROBE (current indicator)

This current sensor is dedicated to trouble-shooting teams called for unknown cables found when digging. It gives an indication whether or not the cable is used : detection of 50/60 Hz.



**This device is a “STOP” not a “GO”:  
Even if a cable is not loaded it can still be live.**

**This probe, which indicate the presence of a current flow, should only be used as a help to decision-making. Only destructive means (spiking tool) can guarantee the absence of a voltage.**



**This current flow probe should only be used:** To obtain information before cutting supposedly abandoned cables.

**This current flow probe must not be used under any circumstances:**

- Instead of a live LV cable identifier (FC5300) during energized work.
- Instead of a cable pre-identifier (FC2300) during a lockout-tagout procedure.
- On bare (uninsulated) conductors.

### Advantages for identifying loaded cables

- Prevent destroying loaded cables supposedly abandoned
- Enables to quickly scan all cables and to identify conductors under load in a trench or conduit

### Technical features

- 3 levels of sensitivity
- Visual and audible indication of the current flow 50/60 Hz
- Can be used with a headset (not supplied)
- Network frequencies: 50Hz and 60Hz
- Only one probe for all types of cable
- Waterproof storage and carry case

### Iprobe Current Flow Probe

IprobeV2PTA	50/60 Hz Detection, with case
-------------	-------------------------------



IprobeV2PTA

## V CHECK

### Capacitive and proximity voltage detectors testing unit

V CHECK proximity voltage detector testing unit is designed to check most of capacitive voltage detectors that comply with IEC61243-1\*

- The proving unit allows you to make sure your MVD voltage detector, or other capacitive detector, is working properly when no "known real voltage" is available
- The V CHECK could be used before and after using your capacitive voltage detector on-site or periodically to check functionality

**This product does not replace the built-in self-test which MUST be used before and after using your voltage detector**

#### Advantages

- High voltage signals generated by V CHECK allow to test most of IEC 61243-1\* capacitive voltage detectors
- Easy to use -touch the voltage detector contact electrode with the V CHECK unit, and press the button
- Compact and lightweight
- Battery powered (autonomy: up to 1000 tests)
- Red led warning during the test
- Low battery indication by orange LED

#### Technical specifications

- Powered with 1 x 9V alkaline battery
- Use temperature: -13° F to +130° F
- Size: 4.8" x 2.8" x 1.9"
- Weight: 0.5 lbs (without battery)



VCHECKHX-PTA

#### V Check

VCHECKHX-PTA

Capacitive voltage detector proving unit

## DC Voltage Detector With Remote Voltage Indicator

This device consists of 2 units used for Voltage Testing on direct current (DC) overhead lines (mainly transport overhead line: trolleys, metro, trains).

- Nominal voltage range: Un=40V to 3600VDC
- Double voltage indication, powerful sound and flashing light indication
- Operating temperature -13° F to 131° F

**RAILROAD**

**NEW  
PRODUCTS**



#### DC Voltage Detector with Remote Voltage Indicator

Part Number	Voltage range	End fitting	Weight	Packaging
DCC3600MUPTA	40 -3600 V	Universal	17.6 lbs (with case)	Hardcase



DCC3600MUPTA

## Aladin Individual Voltage Alarm With Headlight

Aladin is designed to provide extra safety level for workers operating near energized equipment (during maintenance, rescue operations, painting, pruning). This device combines a headlight and a personal voltage alarm. Provides 360° detection around the worker.

Aladin Personal Voltage Detector			
Part Number	Description	Voltage	Weight (oz)
ALADINCEFC-PTA	Individual Voltage Alarm with Headlight	1kV to 500kV	3.5

ALADINCEFC-PTA



## Keeper

The Keeper constantly senses **voltage and current** at distance, alerting the user before entering a dangerous area. The Keeper not only indicates the hazard but also indicates the direction and distance of the hazard.

By using the Keeper, you minimize:

- The electrical risk associated with sources of any voltage level, such as power lines, cables or downed installations in storm zones.
- The risk of electric arc, associated with high current sources, such as panels, disconnectors and industrial installations.

The Keeper mounted on the visor of the safety helmet, alerts the operator in real time through lights and sounds. The location on the helmet allows the operator to use peripheral vision, without having to look at it.



The Keeper detects 360° dangers around the user, and not only indicate the hazard, but will also give the direction and approximate distance of the threat.

The Keeper has 4 modes of use according to the user's expertise: Rookie, Standard, Professional and Professional Plus.



**Standards:** EC 61243: LIVE WORKING – VOLTAGE DETECTORS – Part 6: Guidelines on non-contact voltage detectors (NCVD) for use at nominal voltages above 1 kV AC

F3283/F3283M Standard Specification for the Manufacturing of High-Voltage Proximity Alarm to be used for the Detection of Overhead High Voltage Alternating Current (AC).

KEEPER Personal Voltage Detector			
Part Number	Description	Size	Weight (oz)
KEEPER	"Keeper" Personal Voltage/Current detector	3.75" X 1.25"	1.2



KEEPER

## Phase Tester for LV network

This is a unipolar detector designed to test the presence of phase on insulated or bare low voltage (LV) conductors. The level of detection is indicated by a LED bargraph and a beeping sound which speed increases as device approaches a live source. It is commonly used for detecting stray voltage on poles and cross arms, conductor disconnection on overhead insulated LV conductors. LVD1U will not replace a standard "proving dead" device but is an ideal complement to bipolar LV detector.

### CE compliant

### Technical specifications

- AC LV system: From 50V up to 1000V AC
- AC frequency: 50-60 Hz
- Detection by direct contact at 50V
- CAT IV 1000V
- IP65
- Temperature : - 5° F to 113° F
- 2 x LR03 1.5 volt alkaline (AAA)
- Delivered with soft bag that can be attached to the utility belt



LVD1U-P-PTA



### Phase Tester for LV network

**LVD1U-P-PTA** Hand-held, 1000V CAT IV -IP65

## Phase Rotation Indicator - 480V

Testing the phase rotation on LV three phase system.

Device designed for field use:

- Damage resistant heavy-duty water resistant housing
- Can be used in all weathers
- Supplied in a soft case
- Product is rated IP65 & CAT IV 600v
- Other markings or colors to demand

### Phase Rotation Indicator - 480V

**DR706IVPTA** Phase rotation indicator



DR706IVPTA



Available with probes

## Low Voltage Detectors

Heavy duty voltage detector for checking the absence of voltage and giving voltage level indication on voltage up to 1000V.

This device provides additional features:

- Integrated self-test
- Phase search in single-pole mode (any of the two contact tips may be used)
- Polarity display (-/+)
- Continuity test ( $< 80\Omega$ )

- Unique bright LED display can be read in sunlight.
- Ergonomically shaped to fit comfortably in the palm with gloves.
- A revolutionary IP2X system (retractable tip sleeve): "pull and hold" grip at back of device.
- Tip sleeve pulling is controlled, offering higher safety and visibility of contact area.
- Ultra flexible cord (no memory effect).
- Watertight and dustproof device (IP65)
- Device protected against over-voltage 1000V CAT IV for network operation.

### Technical specifications

- Voltage range: 5 to 1000V DC and AC (15 to 60 Hz)
- Audible alarm indicating the presence of voltage with a different tone according to voltage level (discontinuous tone up to 230V and continuous tone above 400V)
- Polarity indication (-/+)
- Built-in self-test
- Continuity testing (threshold  $80\Omega$ )
- Phase identification in single-pole mode (either test probe may be used)
- Front light
- Protected against water and dust : IP65
- Protected against overvoltage CATIV 1000V
- Comes with 2 AAA batteries

### LVDDV11-GNG-CPTA

- Check for the proving dead operation
- Control voltage levels from 12V to 1000V
- Polarity test on DC voltage
- Discrimination phase / neutral
- Phase indication (unipolar)
- Continuity check
- Self test function

### LVDDV11-GNG-CPTA

- Voltage detection : AC / DC
- Polarity test
- Discrimination phase / neutral (unipolar)
- Phase rotation, Continuity check and test connecting lead
- Self test function

### LVDR11-GNG-CPTA

- Check for the proving dead operation
- Control voltage levels from 12V to 1000V
- Polarity test on DC voltage
- Discrimination phase / neutral
- Phase indication (unipolar)
- Phase rotation
- Continuity check
- Functional self test

### LVDDV11-GNG-PTA



Instructions for use on the back of the bag



### Low Voltage Detectors

<b>LVDDV11-GNG-PTA</b>	LVDDV1 Low Voltage Detector 5V to 1000V, Phase rotation, bag and user manual, 3 different tips
<b>LVDDV11-GNG-PTA</b>	LVDDV1 Low Voltage Detector 12V to 1000V, Phase indication (unipolar), bag and user manual, 2 different tips
<b>LVDR11-GNG-PTA</b>	LVDR1 Low Voltage Detector 12V to 1000V, Phase rotation, bag and user manual, 2 different tips

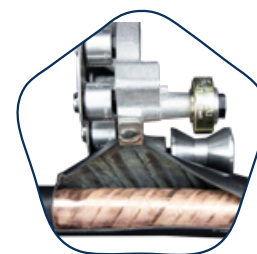
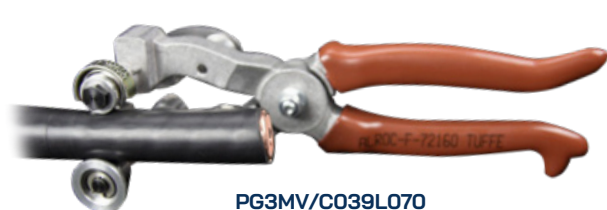
## Stripping Pliers for Outer Jacket

The outer jacket removal pliers are pliers that cut both a circular and longitudinal cut around a cable to complete all cuts necessary in order to remove the outer jacket. Cutting blades are customizable for any depth.

Stripping Pliers for Outer Jacket		
Part Number	Description	OD:
PG2MV/C079L079	Stripping Pliers for Outer Jacket, Cutting Depth 0.8" and 0.8"	0.82 to 1.37"
PG3MB/C039L070	Stripping Pliers for Outer Jacket w/ Handle Lock , Cutting Depth 0.039" and 0.07"	1 to 2"
PG3MB/C110L130	Stripping Pliers for Outer Jacket w/ Handle Lock, Cutting Depth 0.11" and 0.13"	1 to 2"
PG3MV/C039L070	Stripping Pliers for Outer Jacket, Cutting Depth 0.039" and 0.07"	1 to 2"
PG3MV/C110L130	Stripping Pliers for Outer Jacket, Cutting Depth 0.11" and 0.13"	1 to 2"
PG4MV/C110L130	Stripping Pliers for Outer Jacket, Cutting Depth 0.11" and 0.13"	1.8 to 2.95"
PG5MV/C138L138	Stripping Pliers for Outer Jacket, Cutting Depth 0.138" and 0.138"	2.5 to 3.75"



Scan the QR-Code  
to watch the  
how-to video



## Pliers For PiLC Cable

Enables the user to perform a circular cut into phases of MV cable with impregnated paper insulation in order to remove the paper.

Pliers for PiLC Cable	
PINTEL4PI/C157	Cables up to 1" Penetration in circular cut : 157 mils



## Pliers For Lead Sheath Cables

Enables the user to perform a circular and longitudinal cut on LV or MV lead sheath cables. These tools guarantee the lead sheath removal without damaging insulation.

Pliers for Lead Sheath Cables		
Part Number	Description	OD:
AGPB3	Cables from 1" to 2"	1 to 2"
AGPB4	Cables from 1.85" to 3.00"	1.8 to 2.95"



Available in 1000V insulated - ASTM F1505

## Semi-Con Lifter

Use it to lift your scored semi-con without the use of a plier.

Semi-Con Lifter	
DSP	Semi-Con lifter



## Multifunction Tool

For outer sheath, peelable semiconductor and thick insulation The MF3/60-SRC tools enables the user to Remove the outer sheath (PE-PVC-PR) with a straight and neat cut Score the peelable semiconductor with a chamfer on the edge of the semiconductor cutback (with the SRC scoring stylus delivered with the tool) Set the length to be removed and remove thicker insulation with a straight and neat cut.

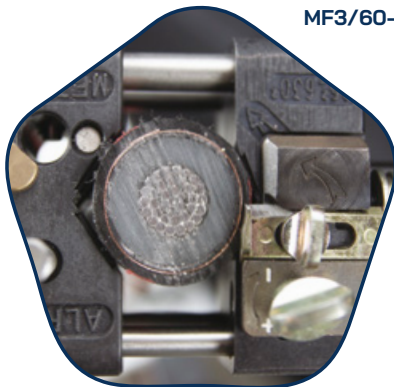


MF3/60-SRC-USA

### Multifunction Tool

MF3/60-SRC-USA	Multifunction tool up to 2.3" dia.
MF3/40-SRC-USA	Multifunction tool up to 1.57" dia.

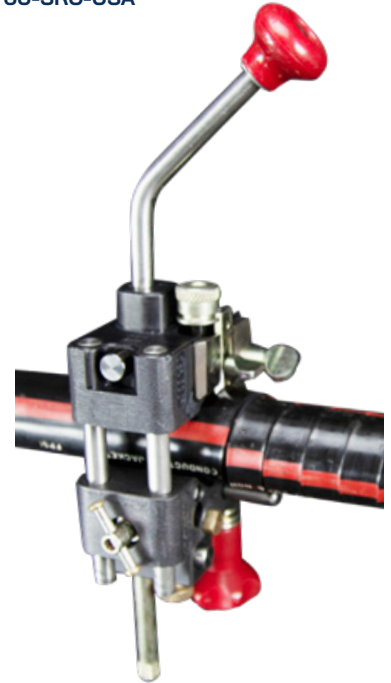
\*Optional Stylus for straight semi-con and Chamfering the insulation available



MF3/60-SRC-USA



Scan the QR-Code to watch the how-to video



## CWE Semi Peelable Conductor Scorer

The CWE enables the user to score the peelable semiconductor, in order to remove it. It performs a chamfer on the semicon cutback. Its design enables to make circular, longitudinal and helicoidal cuts.

### CWE Semi Peelable Conductor Scorer

Part Number	Description	OD:
CWE/O_5-2	Semi-peelable Scorer	0.5 to 2"
MVS	Adjustable Stopper	
CWE/O_5-2 -MVS	Kit of MVS and CWE/O_5-2	



Scan the QR-Code to watch the how-to video



CWE/O\_5-2



MVS



## Low Voltage Cable Preparation Tool

The J1R1 tool allows to remove the outer insulation of many LV aerial or industrial cables.

The tool fits the diameter of the cable and the thickness of the layer to be removed without changing settings.

### Tool Dimensions

- Length** 8.8"
- Width** 2.5"
- Height** 3.2"
- Weight without box** 1.8 lbs

### Tool Capacity

- Diameter** 0.24" – 0.83" (6 - 21mm)
- Depth of cut** 0.03" to 0.1" (0.8 to 2.5mm)
- Stripping length** 1" to 3.9" (25 to 100mm)



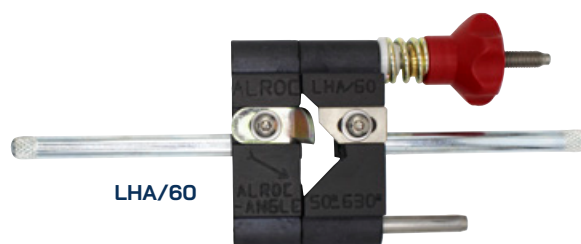
J1R1



Scan the QR-Code to watch the how-to video

Low Voltage Cable Preparation Tool			
	Description	Dimensions	Weight (lbs)
J1R1	Automatic low voltage stripping tools	8.8" X 2.5" X 3.2"	1.8 lbs.

Chamfering Tools		
Part Number	Angle	Capacity (in)
LHA	30°	0.55 - 1.732"
LHA/60	30°	0.787 - 2.165"
LHA2	30°	1.496-2.362"



LHA/60

Midspan Stripping Tool	
DPC/10-45	Insulation Removal In Mid Cable, 0.4 to 1.77"



DPC/10-45

## Pliers for Corrugated Shield (LC SHIELD)

The pliers PF3/024 enables the user to make a circular cut on corrugated shield prior to its removal.

The user will remove the LC shield without touching it with his hands. The grooves on the bushing make sure to score the LC shield without touching the semicon laying under.

### Tool Dimensions

- Length** 10.5"
- Width** 4"
- Height** 3.15"
- Weight without box** 1.2 lbs

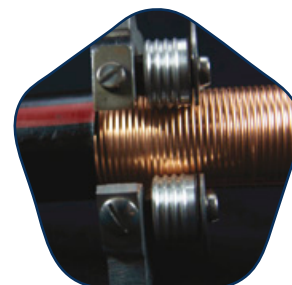
### Tool Capacity

- Diameter** 1.024" to 2.047" (26 to 52mm)
- Depth of cut** 0.024" (0.6mm)

Pliers for Corrugated Shield	
PF3/024	10.5" X 4" X 3.15", 1.2 lbs.



Scan the QR-Code to watch the how-to video



PF3/024

## Insulated Phillips Screwdriver

Manufactured by injection molding to insulate a unique blade that runs the entire length of the screwdriver. It has a slim tip smart diameter blade that offers screwdriver additional reach in confined spaces.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

### Insulated Phillips Screwdrivers

<b>IC18-NOX3-PTA</b>	Screwdriver, Phillips #0 Shaft 3"
<b>IC18-NOX6-PTA</b>	Screwdriver, Phillips #0 Shaft 6"
<b>IC18-N1X4-PTA</b>	Screwdriver, Phillips #1 Shaft 4"
<b>IC18-N2X5-PTA</b>	Screwdriver, Phillips #2 Shaft 5"
<b>IC18-N3X6-PTA</b>	Screwdriver, Phillips #3 Shaft 6"
<b>IC18-N4X8-PTA</b>	Screwdriver, Phillips #4 Shaft 8"

## Insulated Slotted Screwdriver

Manufactured by injection molding to insulate a unique blade that runs the entire length of the screwdriver. It has a slim tip smart diameter blade that offers screwdriver additional reach in confined spaces.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.



## Insulated Nut Driver

Insulating material is injection molded over a metal shaft that reaches from end-to-end. The composite material is an extra-light technology due to a thinner layer of insulation with a higher level of protection due to its density and shock-resistance.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

*Injection molding process allows to design hand tools that are lightweight, better ergonomically designed and manufactured as a single unit without using adhesives to joint different components of the tool.*

*This process allows for slim tip smart diameter blade that offers screwdriver additional reach in confined spaces.*

*The material used in injection molding is considerably stronger than the vinyl material used in dipping process.*

*Manufactured by injection molding process to insulate a unique blade that runs the entire length of the Screwdriver.*

### Create your own KIT



Smart Diameter Blade



### Insulated Slotted Screwdrivers

<b>IS18-1/2X8-PTA</b>	Screwdriver, Slotted 1/2" Shaft 8"
<b>IS18-1/4X6-PTA</b>	Screwdriver, Slotted 1/4" Shaft 6"
<b>IS18-3/8X10-PTA</b>	Screwdriver, Slotted 3/8" Shaft 10"
<b>IS18-3/8X6-PTA</b>	Screwdriver, Slotted 3/8" Shaft 6"
<b>IS18-5/16X6-PTA</b>	Screwdriver, Slotted 5/16" Shaft 6"
<b>IS18-5/16X8-PTA</b>	Screwdriver, Slotted 5/16" Shaft 8"
<b>IS18-5/32X5-PTA</b>	Screwdriver, Slotted 5/32" Shaft 5"
<b>IS18B-1/4X1-1/2-PTA</b>	Screwdriver Stubby, Slotted 1/4" Shaft 1/2"



### Insulated Nut Driver

<b>IS36-1/2-PTA</b>	Nut Driver 1/2" Shaft 6"
<b>IS36-1/4-PTA</b>	Nut Driver 1/4" Shaft 6"
<b>IS36-11/32-PTA</b>	Nut Driver 11/32" Shaft 6"
<b>IS36-3/16-PTA</b>	Nut Driver 3/16" Shaft 6"
<b>IS36-3/8-PTA</b>	Nut Driver 3/8" Shaft 6"
<b>IS36-5/16-PTA</b>	Nut Driver 5/16" Shaft 6"
<b>IS36-5/8-PTA</b>	Nut Driver 5/8" Shaft 6"
<b>IS36-7/16-PTA</b>	Nut Driver 7/16" Shaft 6"
<b>IS36-9/16-PTA</b>	Nut Driver 9/16" Shaft 6"

## Insulated Rotoline Screwdrivers

Are PENTA ESP's ergonomic Tools' handle provides more comfort, ease of use and efficiency. Insulating material is injected over a metal shaft that reaches from end-to-end. The composite material is an extra-light technology thanks a thinner layer of insulation with a higher level of protection due to its density and shock-resistance.

Each screwdriver has a colored ring on the handle. The ring color corresponds to the type of screwdriver blade, allowing a quick identification.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.



Smart Diameter Blade

### Insulated Rotoline Phillips Screwdrivers

<b>RL1-PH-N0X3-PTA</b>	Screwdriver 7", Phillips #0 RL
<b>RL1-PH-N0X6-PTA</b>	Screwdriver 10", Phillips #0 RL
<b>RL1-PH-N1X4-PTA</b>	Screwdriver 10", Phillips #1 RL
<b>RL1-PH-N2X5-PTA</b>	Screwdriver 9", Phillips #2 RL
<b>RL1-PH-N3X6-PTA</b>	Screwdriver 9", Phillips #3 RL
<b>RL1-PH-N4X8-PTA</b>	Screwdriver 12", Phillips #4 RL

### Insulated Rotoline Slotted Screwdrivers

<b>RL1-PL-1/2X8-PTA</b>	Screwdriver 12", Slotted 1/2" RL
<b>RL1-PL-1/4X6-PTA</b>	Screwdriver 10", Slotted 1/4" RL
<b>RL1-PL-3/8X10-PTA</b>	Screwdriver 10", Slotted 3/8" RL
<b>RL1-PL-3/8X6-PTA</b>	Screwdriver 10", Slotted 3/8" RL
<b>RL1-PL-5/16X6-PTA</b>	Screwdriver 10", Slotted 5/16" RL
<b>RL1-PL-5/16X8-PTA</b>	Screwdriver 8", Slotted 5/16" RL
<b>RL1-PL-5/32X5-PTA</b>	Screwdriver 8", Slotted 5/32" RL

### Insulated Rotoline Nut Drivers

<b>RL1-36-1/2-PTA</b>	Nut Driver 1/2" Shaft 6" RL Turn
<b>RL1-36-1/4-PTA</b>	Nut Driver 1/4" Shaft 6" RL Turn
<b>RL1-36-11/32-PTA</b>	Nut Driver 11/32" Shaft 6" RL Turn
<b>RL1-36-3/16-PTA</b>	Nut Driver 3/16" Shaft 6" RL Turn
<b>RL1-36-3/8-PTA</b>	Nut Driver 3/8" Shaft 6" RL Turn
<b>RL1-36-5/16-PTA</b>	Nut Driver 5/16" Shaft 6" RL Turn
<b>RL1-36-5/8-PTA</b>	Nut Driver 5/8" Shaft 6" RL Turn
<b>RL1-36-7/16-PTA</b>	Nut Driver 7/16" Shaft 6" RL Turn
<b>RL1-36-9/16-PTA</b>	Nut Driver 9/16" Shaft 6" RL Turn



MP18-10-PTA

RL1-PL-3/8X6-PTA



RL1-PH-N2X5-PTA



### Insulated Phillips Screwstarter

<b>MP18-3-PTA</b>	Screwstarter OAL 3"
<b>MP18-6-PTA</b>	Screwstarter OAL 6"
<b>MP18-10-PTA</b>	Screwstarter OAL 10"

### Insulated Slotted Screwstarter

<b>MU18-3-PTA</b>	Screwstarter OAL 3"
<b>MU18-6-PTA</b>	Screwstarter OAL 6"
<b>MU18-10-PTA</b>	Screwstarter OAL 10"

## Insulated Universal Pliers

Manufactured by injection molding technology, or dipped to coat by high-density plastic material.

### Insulated Universal Pliers

<b>MS4-7-PTA</b>	Universal Pliers, Lineman 7"
<b>MS4-8-PTA</b>	Universal Pliers, Lineman 8"
<b>MS4-9-PTA</b>	Universal Pliers, Lineman 9"
<b>MS4E-9-PTA</b>	Universal Pliers, Lineman 9" w/ Head
<b>MS4CR-10-PTA</b>	Universal Pliers, Lineman 10" w/ Crimper
<b>MS4-10-PTA</b>	Universal Pliers, Lineman 10"
<b>MC11CE-XL-PTA</b>	Pliers, Flat Nose Composite Ceramic Blades OAL 8"
<b>MC13CE-XL-PTA</b>	Pliers, Bent Nose Half-Round Ceramic Blades OAL 8"
<b>MC45I-XL-PTA</b>	Pliers, Cutting Composite OAL 8"
<b>MC4CE-XL-PTA</b>	Pliers, Universal Composite Ceramic Blades OAL 8"

### Insulated Cutting Pliers

<b>MS60-6-PTA</b>	Pliers, Side Cutting OAL 6.5"
<b>MS60-7-PTA</b>	Pliers, Side Cutting OAL 7"
<b>MS45-8-PTA</b>	Pliers, Cable Cutting OAL 7"
<b>MS45-9-PTA</b>	Pliers, Cable Cutting OAL 9"

### Insulated Needle Nose Pliers

<b>MS10-7-PTA</b>	Pliers, Long Nose Half-Round OAL 7"
<b>MS10E-7-PTA</b>	Pliers, Long Nose Half-Round Straight OAL 7" *
<b>MS13-6-PTA</b>	Pliers, Half-Round 45° Bent Nose OAL 6.5"
<b>MS13-8-PTA</b>	Pliers, Half-Round 45° Bent Nose OAL 8"
<b>MS13E-7-PTA</b>	Pliers, Half-Round Bent Nose OAL 7" *

### Insulated Slip Joint Pliers

<b>MS26-10-PTA</b>	Pliers, Slip-Joint Adjustable OAL 10"
<b>MS26-12-PTA</b>	Pliers, Slip-Joint Adjustable OAL 12"

### Insulated Adjustable Wrenches

<b>MS7S-10-PTA</b>	Wrench Adjustable OAL 11" *
<b>MS7S-12-PTA</b>	Wrench Adjustable OAL 12" *
<b>MS7S-8-PTA</b>	Wrench Adjustable OAL 8" *
<b>MS7-10-PTA</b>	Wrench, Adjustable OAL 10"
<b>MS7-12-PTA</b>	Wrench, Adjustable OAL 12"
<b>MS7-15-PTA</b>	Wrench, Adjustable OAL 15"
<b>MS7-4-PTA</b>	Wrench, Adjustable OAL 4"
<b>MS7-6-PTA</b>	Wrench, Adjustable OAL 6"
<b>MS7-8-PTA</b>	Wrench, Adjustable OAL 8"

Various Sizes to fit your tooling needs.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

*Manufactured by injection molding technology or dipped to coat by high-density plastic material.*

*Available in various sizes to fit your tooling needs. All insulated tools comply with ASTM F1505 standard.*



**MS4CR-10-PTA**



**MC4CE-XL-PTA**



**MS60-6-PTA**



**MS4E-9-PTA**



**MS26-10-PTA**



**MS7-10-PTA**

\*Additional Sizes upon Request  
 \*W/Head INS

## Insulated Wrench Open-Ended,

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Insulated Wrenches Open-Ended	
MS16-1/2-PTA	Wrench, Open-Ended 1/2" OAL 5"
MS16-1/4-PTA	Wrench, Open-Ended 1/4" OAL 4"
MS16-11/16-PTA	Wrench, Open-Ended 11/16" OAL 6"
MS16-11/32-PTA	Wrench, Open-Ended 11/32" OAL 5"
MS16-13/16-PTA	Wrench, Open-Ended 13/16" OAL 6"
MS16-15/16-PTA	Wrench, Open-Ended 15/16" OAL 7"
MS16-1-PTA	Wrench, Open-Ended 1" OAL 8"
MS16-3/16-PTA	Wrench, Open-Ended 3/16" OAL 4"
MS16-3/4-PTA	Wrench, Open-Ended 3/4" OAL 7"
MS16-3/8-PTA	Wrench, Open-Ended 3/8" OAL 5"
MS16-5/16-PTA	Wrench, Open-Ended 5/16" OAL 4"
MS16-5/8-PTA	Wrench, Open-Ended 5/8" OAL 6"
MS16-7/16-PTA	Wrench, Open-Ended 7/16" OAL 5"
MS16-7/8-PTA	Wrench, Open-Ended 7/8" OAL 8"
MS16-9/16-PTA	Wrench, Open-Ended 9/16" OAL 5"

## Insulated Box End Wrench

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Insulated Wrenches Single Head Cranked Ring	
MS21-11/16-PTA	Wrench, Single Head Cranked Ring 11/16"
MS21-1-1/16-PTA	Wrench, Single Head Cranked Ring 1-1/16"
MS21-1-1/4-PTA	Wrench, Single Head Cranked Ring 1-1/4"
MS21-1-1/8-PTA	Wrench, Single Head Cranked Ring 1-1/8"
MS21-13/16-PTA	Wrench, Single Head Cranked Ring 13/16"
MS21-15/16-PTA	Wrench, Single Head Cranked Ring 15/16"
MS21-1-PTA	Wrench, Single Head Cranked Ring 1"
MS21-3/4-PTA	Wrench, Single Head Cranked Ring 3/4"
MS21-3/8-PTA	Wrench, Single Head Cranked Ring 3/8"
MS21-5/16-PTA	Wrench, Single Head Cranked Ring 5/16"
MS21-5/8-PTA	Wrench, Single Head Cranked Ring 5/8"
MS21-7/16-PTA	Wrench, Single Head Cranked Ring 7/16"
MS21-7/8-PTA	Wrench, Single Head Cranked Ring 7/8"
MS21-9/16-PTA	Wrench, Single Head Cranked Ring 9/16"



MS16-1/2-PTA



MS21-PTA



MS21-PTA

## Insulated Ratchet

The push and release unique features allow the users to work in a highest level of confidence in their tools. The insulated ratchet is reversible by simple turn. All imperial and metric sockets, extensions and accessories are compatible with the ratchet and its unique features.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

## Insulated Torque Wrench

The insulated torque ratchet is reversible by simple turn of the knob. The push and release unique features allow the users to work in a highest level of confidence in their tools. The mechanism has been developed to be perform precise and rough applications. All imperial and metric sockets, extensions and accessories are compatible with the ratchet and its unique features. Ratchet also available in 1/2" square drive.

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

### Insulated Ratchets

<b>MS85PC-PTA</b>	Ratchet Stubby 3/8" SqDr w/ Locking System
<b>MS85P-PTA</b>	Ratchet 3/8" SqDr w/ Locking System
<b>MS65P-PTA</b>	Ratchet 1/2" SqDr w/ Locking System

Create Your  
Own KIT

### Insulated Torque Wrenches

<b>MS100N1VM-3/8-PTA</b>	Torque Wrench 8-35LBF.IN 3/8" Locking System
<b>MS100NOVM-PTA</b>	Torque Wrench 35-180LBF.IN Sqd 3/8" - Locking System



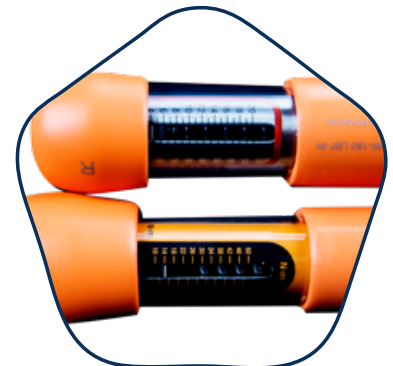
MS85P-PTA



MS100NOVM-PTA



MS100NOVM-PTA



## Insulated Socket - 12 pts

Available in 1/2" Square Drive. All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Insulated Socket - 12 pts	
<b>MS86L-1/2-PTA</b>	Socket, 12 Pts Female Long 1/2" - 3/8" SqDr INS
<b>MS86L-11/16-PTA</b>	Socket, 12 Pts Female Long 11/16" - 3/8" SqDr INS
<b>MS86L-13/16-PTA</b>	Socket, 12 Pts Female Long 13/16" - 3/8" SqDr INS
<b>MS86L-3/4-PTA</b>	Socket, 12 Pts Female Long 3/4" - 3/8" SqDr INS
<b>MS86L-3/8-PTA</b>	Socket, 12 Pts Female Long 3/8" - 3/8" SqDr INS
<b>MS86L-5/16-PTA</b>	Socket, 12 Pts Female Long 5/16" - 3/8" SqDr INS
<b>MS86L-5/8-PTA</b>	Socket, 12 Pts Female Long 5/8" - 3/8" SqDr INS
<b>MS86L-7/16-PTA</b>	Socket, 12 Pts Female Long 7/16" - 3/8" SqDr INS
<b>MS86L-7/8-PTA</b>	Socket, 12 Pts Female Long 7/8" - 3/8" SqDr INS
<b>MS86L-9/16-PTA</b>	Socket, 12 Pts Female Long 9/16" - 3/8" SqDr INS



\*Additional Sizes upon Request

## Insulated Socket- Hex

Available in 1/2" Square Drive. All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Insulated Sockets- Hex	
<b>MS87-1/2-PTA</b>	Socket, Hexagonal Male 1/2" - 3/8" SqDr INS
<b>MS87-1/4-PTA</b>	Socket, Hexagonal Male 1/4" - 3/8" SqDr INS
<b>MS87-1/8-PTA</b>	Socket, Hexagonal Male 1/8" - 3/8" SqDr INS
<b>MS87-3/16-PTA</b>	Socket, Hexagonal Male 3/16" - 3/8" SqDr INS
<b>MS87-3/8-PTA</b>	Socket, Hexagonal Male 3/8" - 3/8" SqDr INS
<b>MS87-5/16-PTA</b>	Socket, Hexagonal Male 5/16" - 3/8" SqDr INS
<b>MS87-5/32-PTA</b>	Socket, Hexagonal Male 5/32" - 3/8" SqDr INS
<b>MS87-7/16-PTA</b>	Socket, Hexagonal Male 7/16" - 3/8" SqDr INS
<b>MS87-7/32-PTA</b>	Socket, Hexagonal Male 7/32" - 3/8" SqDr INS
<b>MS87-9/16-PTA</b>	Socket, Hexagonal Male 9/16" - 3/8" SqDr INS
<b>MS87-9/64-PTA</b>	Socket, Hexagonal Male 9/64" - 3/8" SqDr INS
<b>MS87P-1/2-PTA</b>	Socket, Hexagonal Male 1/2" - 3/8" SqDr INS- Long
<b>MS87P-3/8-PTA</b>	Socket, Hexagonal Male 3/8" - 3/8" SqDr INS- Long
<b>MS87P-5/16-PTA</b>	Socket, Hexagonal Male 5/16" - 3/8" SqDr INS- Long
<b>MS87P-7/16-PTA</b>	Socket, Hexagonal Male 7/16" - 3/8" SqDr INS- Long
<b>MS87P-9/16-PTA</b>	Socket, Hexagonal Male 9/16" - 3/8" SqDr INS- Long



\*Additional Sizes upon Request

## Electrician Knife

Has a molded handle to fit users hand, Ceramic & Steel blades retain sharpness after many uses. All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Electrician Knives	
<b>IS77-PTA</b>	Knife, Thick Blade 3" OAL 7" INS
<b>IS78-PTA</b>	Knife, Thin Blade OAL 7" INS
<b>IS79-PTA</b>	Knife, Short Curved Blade OAL 8" INS
<b>IS80C-PTA</b>	Knife, Ceramic Blade OAL 8" INS



IS80C-PTA



IS77-PTA

## Insulated tool KITS

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

### Insulated Tool KIT 9 Pieces

<b>KIT-9</b>	IS18-5/32X5-PTA	Screwdriver, Slotted 5/32" - 5" Slim Tip Shaft
	IS18-5/16X6-PTA	Screwdriver, Slotted 5/16" - 6" Slim Tip Shaft
	IS18-1/4X6-PTA	Screwdriver, Slotted 1/4" - 6" Slim Tip Shaft
	IC18-N2X5-PTA	Screwdriver, Phillips #2 - 5" Slim Tip Shaft
	IC18-N1X4-PTA	Screwdriver, Phillips #1 - 4" Slim Tip Shaft
	MS60-7-PTA	Insulated Side Cutting Plier 7"
	MS4-9-PTA	Insulated Combination Plier 9"
	MS10-7-PTA	Insulated Half-Round Straight Long Nose Plier 7"
	TRI12P	Bag 12 Pouches Tri fold
	MS43CR-PTA	1000V Insulated Wire Stripper / Crimper Plier



**KIT-9**

### Insulated Tool RotoLine KIT 9 Pieces

<b>KITRL1-9</b>	RL1-PL-5/32X5-PTA	Rotoline, Screwdriver, Slotted 5/32"
	RL1-PL-5/16X6-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PL-1/4X6-PTA	Rotoline, Screwdriver, Slotted 1/4"
	RL1-PH-N2X5-PTA	Rotoline, Screwdriver, Phillips #2
	RL1-PH-N1X4-PTA	Rotoline, Screwdriver, Phillips #1
	MS60-7-PTA	Insulated Side Cutting Plier 7"
	MS4-9-PTA	Insulated Combination Plier 9"
	MS10-7-PTA	Insulated Half-Round Straight Long Nose Plier 7"
	TRI12P	Bag 12 Pouches Tri fold
	MS43CR-PTA	1000V Insulated Wire Stripper / Crimper Plier



**KITRL1-9**

### Insulated Tool Composite KIT 9 Pieces

<b>KITC-9</b>	IS18-5/32X5-PTA	Screwdriver, Slotted 5/32" - 5" Slim Tip Shaft
	IS18-5/16X6-PTA	Screwdriver, Slotted 5/16" - 6" Slim Tip Shaft
	IS18-1/4X6-PTA	Screwdriver, Slotted 1/4" - 6" Slim Tip Shaft
	IC18-N2X5-PTA	Screwdriver, Phillips #2 - 5" Slim Tip Shaft
	IC18-N1X4-PTA	Screwdriver, Phillips #1 - 4" Slim Tip Shaft
	MC45I-XL-PTA	Hybrid Composite Cutting Plier Opening 22mm
	MC4CE-XL-PTA	Insulating Universal Plier With Ceramic Cutters
	MC11CE-XL-PTA	Insulating Long-Nosed Straight Plier With Ceramic Cutters - XL
	TRI12P	Bag 12 Pouches Tri fold
	MS43CR-PTA	1000V Insulated Wire Stripper / Crimper Plier



**KITC-9**

### Insulated Nut Driver Tool KIT 9 Pieces

<b>KIT-ND9</b>	IS36-5/16-PTA	Nut Driver 5/16" - Shaft 6"
	IS36-11/32-PTA	Nut Driver 11/32" - Shaft 6"
	IS36-1/4-PTA	Nut Driver 1/4" - Shaft 6"
	IS36-3/16-PTA	Nut Driver 3/16" - Shaft 6"
	IS36-3/8-PTA	Nut Driver 3/8" - Shaft 6"
	IS36-7/16-PTA	Nut Driver 7/16" - Shaft 6"
	IS36-1/2-PTA	Nut Driver 1/2" - Shaft 6"
	IS36-9/16-PTA	Nut Driver 9/16" - Shaft 6"
	IS36-5/8-PTA	Nut Driver 5/8" - Shaft 6"
	TRI9P	Bag 9 Pouches Tri fold



**KIT-ND9**

### Insulated Nut Driver Tool KIT 7 Pieces

<b>KIT-ND7</b>	IS36-5/16-PTA	Nut Driver 5/16" - Shaft 6"
	IS36-11/32-PTA	Nut Driver 11/32" - Shaft 6"
	IS36-1/4-PTA	Nut Driver 1/4" - Shaft 6"
	IS36-3/16-PTA	Nut Driver 3/16" - Shaft 6"
	IS36-3/8-PTA	Nut Driver 3/8" - Shaft 6"
	IS36-7/16-PTA	Nut Driver 7/16" - Shaft 6"
	IS36-1/2-PTA	Nut Driver 1/2" - Shaft 6"
	TRI9P	Bag 9 Pouches Tri fold



**KIT-ND7**

## Insulated tool KITS

All insulated tools comply with ASTM F1505 and IEC 60900 standards.

Insulated RotoLine 1 Nut Driver Tool KIT 9 Pieces		
KITRL1-ND9	RL1-36-3/8-PTA	Rotoline, Nut Driver 3/8" - Shaft 6"
	RL1-36-7/16-PTA	Rotoline, Nut Driver 7/16" - Shaft 6"
	RL1-36-1/2-PTA	Rotoline, Nut Driver 1/2" - Shaft 6"
	RL1-36-3/16-PTA	Rotoline, Nut Driver 3/16" - Shaft 6"
	RL1-36-1/4-PTA	Rotoline, Nut Driver 1/4" - Shaft 6"
	RL1-36-5/16-PTA	Rotoline, Nut Driver 5/16" - Shaft 6"
	RL1-36-11/32-PTA	Rotoline, Nut Driver 11/32" - Shaft 6"
	RL1-36-9/16-PTA	Rotoline, Nut Driver 9/16" - Shaft 6"
	RL1-36-5/8-PTA	Rotoline, Nut Driver 5/8" - Shaft 6"
	TRI9P	Bag 9 Pouches Tri fold



KITRL1-ND9

Insulated RotoLine 1 Nut Driver Tool KIT 7 Pieces		
KITRL1-ND7	RL1-36-3/8-PTA	Rotoline, Nut Driver 3/8" - Shaft 6"
	RL1-36-7/16-PTA	Rotoline, Nut Driver 7/16" - Shaft 6"
	RL1-36-1/2-PTA	Rotoline, Nut Driver 1/2" - Shaft 6"
	RL1-36-3/16-PTA	Rotoline, Nut Driver 3/16" - Shaft 6"
	RL1-36-1/4-PTA	Rotoline, Nut Driver 1/4" - Shaft 6"
	RL1-36-5/16-PTA	Rotoline, Nut Driver 5/16" - Shaft 6"
	RL1-36-11/32-PTA	Rotoline, Nut Driver 11/32" - Shaft 6"
	TRI9P	Bag 9 Pouches Tri fold



KITRL1-ND7

Insulated Screwdriver Tool KIT 9 Pieces		
KIT-SD9	IS18-1/8X4-PTA	Screwdriver, Slotted 1/8" - 5" Slim Tip Shaft
	IS18-5/32X5-PTA	Screwdriver, Slotted 5/32" - 5" Slim Tip Shaft
	IS18-1/4X6-PTA	Screwdriver, Slotted 1/4" - 6" Slim Tip Shaft
	IS18-5/16X6-PTA	Screwdriver, Slotted 5/16" - 6" Slim Tip Shaft
	IS18-5/16X8-PTA	Screwdriver, Slotted 5/16" - 8" Slim Tip Shaft
	IS18-3/8X6-PTA	Screwdriver, Slotted 3/8" - 6" Slim Tip Shaft
	IC18-N1X4-PTA	Screwdriver, Phillips #1 - 4" Slim Tip Shaft
	IC18-N2X5-PTA	Screwdriver, Phillips #2 - 5" Slim Tip Shaft
	IC18-N3X6-PTA	Screwdriver, Phillips #3 - 6" Slim Tip Shaft
	ZP14R	Zipper Rouch Red 14"



KIT-SD9

Insulated Screwdriver Tool KIT 7 Pieces		
KIT-SD7	IS18-1/8X4-PTA	Screwdriver, Slotted 1/8" - 5" Slim Tip Shaft
	IS18-5/32X5-PTA	Screwdriver, Slotted 5/32" - 5" Slim Tip Shaft
	IS18-1/4X6-PTA	Screwdriver, Slotted 1/4" - 6" Slim Tip Shaft
	IS18-5/16X8-PTA	Screwdriver, Slotted 5/16" - 8" Slim Tip Shaft
	IS18-3/8X6-PTA	Screwdriver, Slotted 3/8" - 6" Slim Tip Shaft
	IC18-N1X4-PTA	Screwdriver, Phillips #1 - 4" Slim Tip Shaft
	IC18-N2X5-PTA	Screwdriver, Phillips #2 - 5" Slim Tip Shaft
	TRI9P	Bag 9 Pouches Tri fold



KIT-SD7

Insulated Screwdriver Tool KIT 6 Pieces		
KIT-SD6	IS18-1/8X4-PTA	Screwdriver, Slotted 1/8" - 5" Slim Tip Shaft
	IS18-5/32X5-PTA	Screwdriver, Slotted 5/32" - 5" Slim Tip Shaft
	IS18-1/4X6-PTA	Screwdriver, Slotted 1/4" - 6" Slim Tip Shaft
	IS18-5/16X6-PTA	Screwdriver, Slotted 5/16" - 6" Slim Tip Shaft
	IC18-N1X4-PTA	Screwdriver, Phillips #1 - 4" Slim Tip Shaft
	IC18-N2X5-PTA	Screwdriver, Phillips #2 - 5" Slim Tip Shaft
	ZP14R	Zipper Rouch Red 14"



KIT-SD6

## Insulated Tool KITS

All insulated tools comply with ASTM F1505 and IEC 60900 standards.



**KITRL1-SD9**



**KITRL1-SD7**



**KITRL1-SD6**



**KIT-RA12**



**KIT-RA12LE**

### Insulated RotoLine 1 Screwdriver Tool KIT 9 Pieces

<b>KITRL1-SD9</b>	RL1-PL-1/8X4-PTA	Rotoline, Screwdriver, Slotted 1/8"
	RL1-PL-1/4X6-PTA	Rotoline, Screwdriver, Slotted 1/4"
	RL1-PL-5/16X6-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PL-5/16X8-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PL-3/8X6-PTA	Rotoline, Screwdriver, Slotted 3/8"
	RL1-PL-3/8X10-PTA	Rotoline, Screwdriver, Slotted 3/8"
	RL1-PH-N1X4-PTA	Rotoline, Screwdriver, Phillips #1
	RL1-PH-N2X5-PTA	Rotoline, Screwdriver, Phillips #2
	RL1-PH-N3X6-PTA	Rotoline, Screwdriver, Phillips #3
	ZP14R	Zipper Rouch Red 14"

### Insulated RotoLine 1 Screwdriver Tool KIT 7 Pieces

<b>KITRL1-SD7</b>	RL1-PL-1/8X4-PTA	Rotoline, Screwdriver, Slotted 1/8"
	RL1-PL-5/32X5-PTA	Rotoline, Screwdriver, Slotted 5/32"
	RL1-PL-1/4X6-PTA	Rotoline, Screwdriver, Slotted 1/4"
	RL1-PL-5/16X6-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PL-5/16X8-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PL-3/8X6-PTA	Rotoline, Screwdriver, Slotted 3/8"
	RL1-PH-N1X4-PTA	Rotoline, Screwdriver, Phillips #1
	RL1-PH-N2X5-PTA	Rotoline, Screwdriver, Phillips #2
	TRI9P	Bag 9 Pouches Tri fold

### Insulated RotoLine 1 Screwdriver Tool KIT 6 Pieces

<b>KITRL1-SD6</b>	RL1-PL-1/8X4-PTA	Rotoline, Screwdriver, Slotted 1/8"
	RL1-PL-5/32X5-PTA	Rotoline, Screwdriver, Slotted 5/32"
	RL1-PL-1/4X6-PTA	Rotoline, Screwdriver, Slotted 1/4"
	RL1-PL-5/16X6-PTA	Rotoline, Screwdriver, Slotted 5/16"
	RL1-PH-N1X4-PTA	Rotoline, Screwdriver, Phillips #1
	RL1-PH-N2X5-PTA	Rotoline, Screwdriver, Phillips #2
	ZP14R	Zipper Rouch Red 14"

### Insulated Ratchet w/ Locking Extensions Tool KIT 12 pcs

<b>KIT-RA12</b>	MS85P-PTA	Ratchet 3/8 SqDr, Locking System
	MS87-1/2-PTA	Socket, Short, Male, Hexagonal 1/2"
	MS87-1/4-PTA	Socket, Short, Male, Hexagonal 1/4"
	MS87-1/8-PTA	Socket, Short, Male, Hexagonal 1/8"
	MS87-3/16-PTA	Socket, Short, Male, Hexagonal 3/16"
	MS87-3/8-PTA	Socket, Short, Male, Hexagonal 3/8"
	MS87-5/16-PTA	Socket, Short, Male, Hexagonal 5/16"
	MS87-5/32-PTA	Socket, Short, Male, Hexagonal 5/32"
	MS87-7/16-PTA	Socket, Short, Male, Hexagonal 7/16"
	MS87-9/64-PTA	Socket, Short, Male, Hexagonal 9/64"
	MS84-PTA	5" Extension 3/8 SqDr, Long
	MS84L-PTA	8" Extension 3/8 SqDr, Long
	ZP14R	Zipper Rouch Red 14"

### Insulated Ratchet w/ Locking Extensions Tool KIT 12 pcs

<b>KIT-RA12LE</b>	MS85P-PTA	Ratchet 3/8 SqDr, Locking System
	MS87-1/2-PTA	Socket, Short, Male, Hexagonal 1/2"
	MS87-1/4-PTA	Socket, Short, Male, Hexagonal 1/4"
	MS87-1/8-PTA	Socket, Short, Male, Hexagonal 1/8"
	MS87-3/16-PTA	Socket, Short, Male, Hexagonal 3/16"
	MS87-3/8-PTA	Socket, Short, Male, Hexagonal 3/8"
	MS87-5/16-PTA	Socket, Short, Male, Hexagonal 5/16"
	MS87-5/32-PTA	Socket, Short, Male, Hexagonal 5/32"
	MS87-7/16-PTA	Socket, Short, Male, Hexagonal 7/16"
	MS87-9/64-PTA	Socket, Short, Male, Hexagonal 9/64"
	MS84P-PTA	Extension, Short, Locking System OAL 7.5" - 3/8" SqDr INS
	MS84LP-PTA	Extension, Short, Locking System OAL 11.5" - 3/8" SqDr INS
	ZP14R	Zipper Rouch Red 14"

## Protective Glove Box for Rubber Insulating Gloves

Protect and store rubber insulating gloves when not in use. Box designed to be placed in power substations, trucks, industrial applications and on electrical cabinets.

### Protective Glove Box for Rubber Insulating Gloves

**BGT-PTA**

Protective Glove Box for Rubber Insulating Gloves



**BGT-PTA**



## Portable Glove Inflator

Insulating equipment shall be inspected for damage before each day's use and immediately following any incident that can reasonably be suspected of causing damage. Insulating gloves shall be given an air test, along with the inspection.

### Portable Glove Inflator

**EOSXL-PTA**

Portable Glove Inflator

Additional ring for larger glove and bell cuff included



**EOSXL-PTA**



## Insulating Platform

The insulating platform, made from one-piece molded polypropylene, comes with anti-slip feet and provides an elevated place for workers and equipment.

Supports up to 300 lbs.



TT015M45KV-PTA



### Insulating Platform

Part Number	Description	Dimensions	Weight (lbs)
TT015M45KV-PTA	Insulating Platform - 45KV	Length 20" X Width 20" X Height 12"	8.1
TT015M24KV-PTA	Insulating Platform - 24KV	Length 20" X Width 20" X Height 8"	7.2

Keep platform clean for maximum protection and security.

## Magnetic Button

Lightweight and super strong Magnetic Buttons are designed for use in eyelets of insulating blankets when covering energized equipment in hard to cover areas like pad mounts, cubicles and switchboards. Epoxi+Ni Coated Strong Neodymium Cup Magnets. Perfect for use with insulated tools kits, keeping all tools at the workers' eye level and mounted on ferrous cabinets. Can be used with Clapmstick and insulating rubber gloves.

Holding Force – 120 lbs. ea.

### ESP Magnetic Button

MAG120R-PTA 3.85 oz, 2.75" High, 1.5" Diameter



MAG120R-PTA

## BLANKET PIN for Insulating Sheeting

**Use:** Used to hold insulating sheeting in position.

### Plastic Blanket Pin

TP60P Plastic spring Clip, 1" Opening, 6.5" Length, 0.7" width, .02" height  
**WEATHER RESISTANT**



TP60P

## Mechanical Crimping Tool / Pop Tool

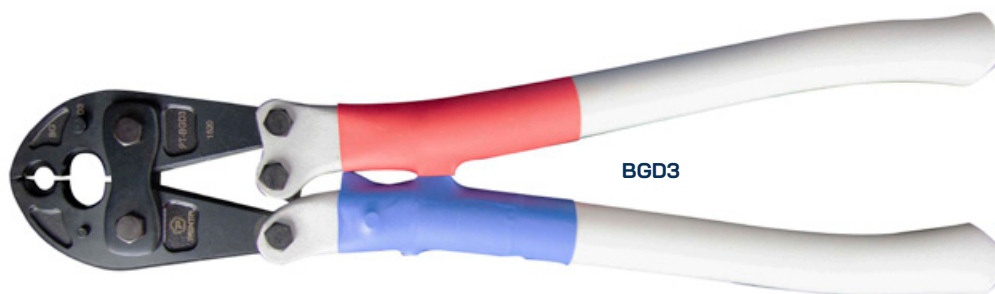
This mechanical crimping tool is designed for crimping a wide range of overhead service entrance connections, overhead splices, and overhead taps. It's easy-to-use, and has handles that provide a solid grip, good leverage and better durability, a low friction-impregnated bushings at the pivot joints, and it is assured with an over-center cam mechanism.

Tool can easily be checked visually for proper adjustment and can be adjusted with Allen wrenches. Die Available (BG-k840).



### Mechanical Crimping Tool / Pop Tool

<b>OD3</b>	O Nose Die & D3 Seat 9,000 lbs 25 3/4" 7 lbs., Accepts "W" Style Dies
<b>BGD3</b>	BG Nose Die & D3 Seat 9,000 lbs 25 3/4" 7 lbs., Accepts "W" Style Dies



## Hydraulic Compression Head - 60 Tons Single action

### Specifications:

- Height: 17.5"
- Weight: 47 lbs
- Max. pressure: 700bar/10,000 PSI
- Maximum output: 60 tons US
- Capacity: up to 2.36" O.D. sleeve
- Oil required: 10.4 fluid oz
- Ram stroke: 1.54"
- Accessories: PENTA steel carrying case
- Custom dies are manufactured on request

### Features:

- Designed as portable tool for installing compression sleeves and terminals for transmission line maintenance
- Large handle for carrying and solid metal loop at base for hoist work
- Detachable ground stand as standard accessory
- Single-action cylinder with spring return can be used by any single-action 700 bar/10,000 psi-rated hydraulic pump

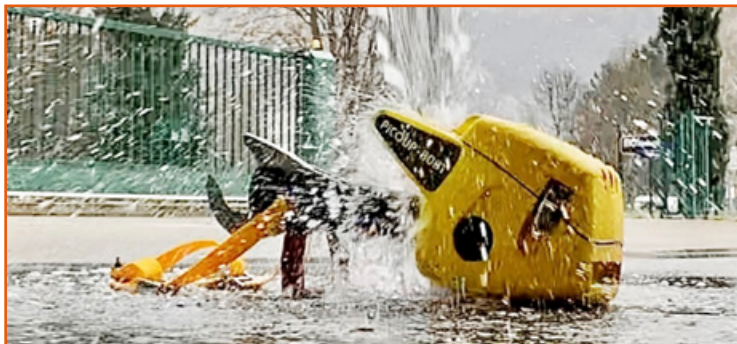
### Hydraulic Compression Head

<b>XPC60T-S</b>	60 Tons Single Action
-----------------	-----------------------



### Hydraulic Underground Cable Cutter

A hydraulic underground cable cutter with spiking blade and grounding clamp – will come in different sizes for all type of cable.



### Underground Cable ID Device

Allows detection of underground cables up to 12 miles away from the source.



### Link Sticks and Fiberglass

New fiberglass products will be available over the next few months.



*More  
products  
are in  
development  
to keep you  
safe!*

## Repair Kits for Shotgun Hot Sticks

These Kits allow customers to change a part of its shotgun hot stick instead of replacing the whole stick.

These kits can be used on the stick of the PCTxxxSJ and the Penta range (PCTxxx PTA).

### Repair kits for Shotgun Hot Sticks

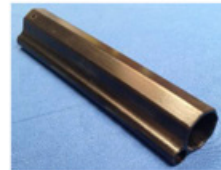
<b>KPCT9</b>	Rack for PCT
<b>KPCT9_10_11_12</b>	Rack kit for PCT
<b>KPCT4</b>	PCT head
<b>KPCT4_6</b>	Head kit for PCT stick
<b>KPCT6</b>	GF pin Ø5 for PCT head
<b>KPCT5</b>	GF pin Ø5 for rod guide hand protection
<b>KPCT3</b>	Rod guide
<b>KPCT3_5</b>	Rod guide kit for PCT stick
<b>KPCT2A</b>	Hand protection for short sticks (1)
<b>KPCT2B</b>	Hand protection for long sticks (2)
<b>KPCT2_5A</b>	Hand protection kit for short sticks (1)
<b>KPCT2_5B</b>	Hand protection kit for long sticks (2)
<b>KPCT14_15_16_20_21</b>	Rod threads kit
<b>KPCT17_18_46</b>	Rod kit for PCT46 or PCT140S (J) stick
<b>KPCT17_18_66</b>	Rod kit for PCT66 or PCT200S (J) stick
<b>KPCT17_18_86</b>	Rod kit for PCT86 or PCT260S (J) stick
<b>KPCT17_18_106</b>	Rod kit for PCT106 or PCT320S (J) stick
<b>KPCT17_18_126</b>	Rod kit for PCT126 or PCT380S (J) stick
<b>KPCT19</b>	Retractable hook for PCT
<b>KPCT13_25</b>	Composite handle kit for PCT stick
<b>KPCT12</b>	Handle stop for PCT
<b>KPCT23</b>	Enveloping cap for PCT



**KPCT4**



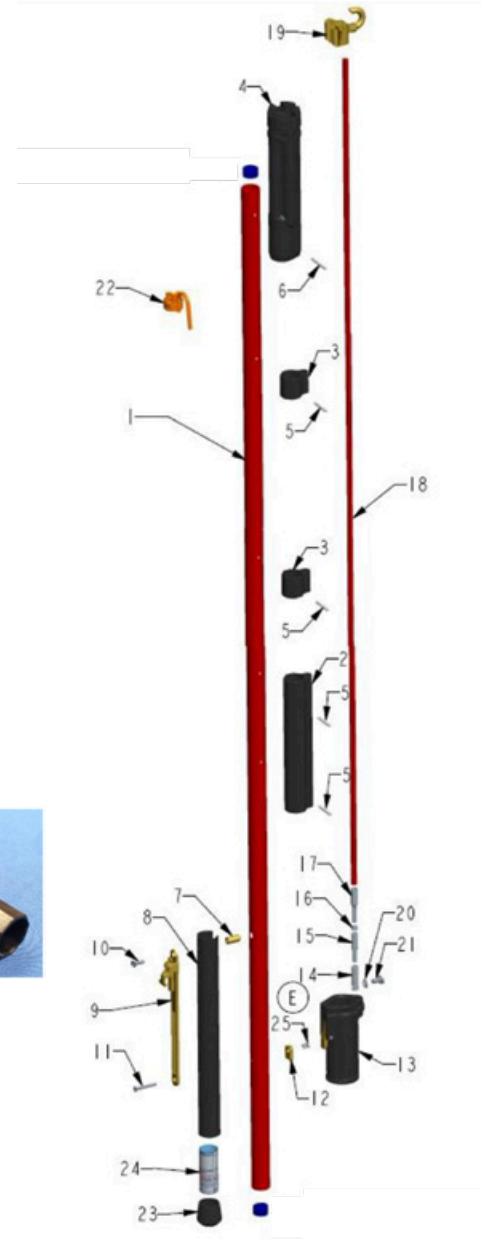
**KPCT4\_6**



**KPCT2X**



**KPCT2\_5X**



### (1) Short sticks :

- Standard range: PCT120,140S(J)
- Penta range : PCT46(UE PTA)

### (2) Long sticks :

- Standard range : PCT120,140S(
- Penta range : PCT66,86,106,126(UE) PTA ,  
PCT PCT180,200,240,260,320,360,380S(J)



**KPCT14\_15\_16\_20\_21**



**KPCT17\_18\_xx**



**KPCT9\_10\_11\_12**



**KPCT9**



**KPCT5**



**KPCT19**



**KPCT13\_25**



**KPCT3**



**KPCT3\_5**



**KPCT12**

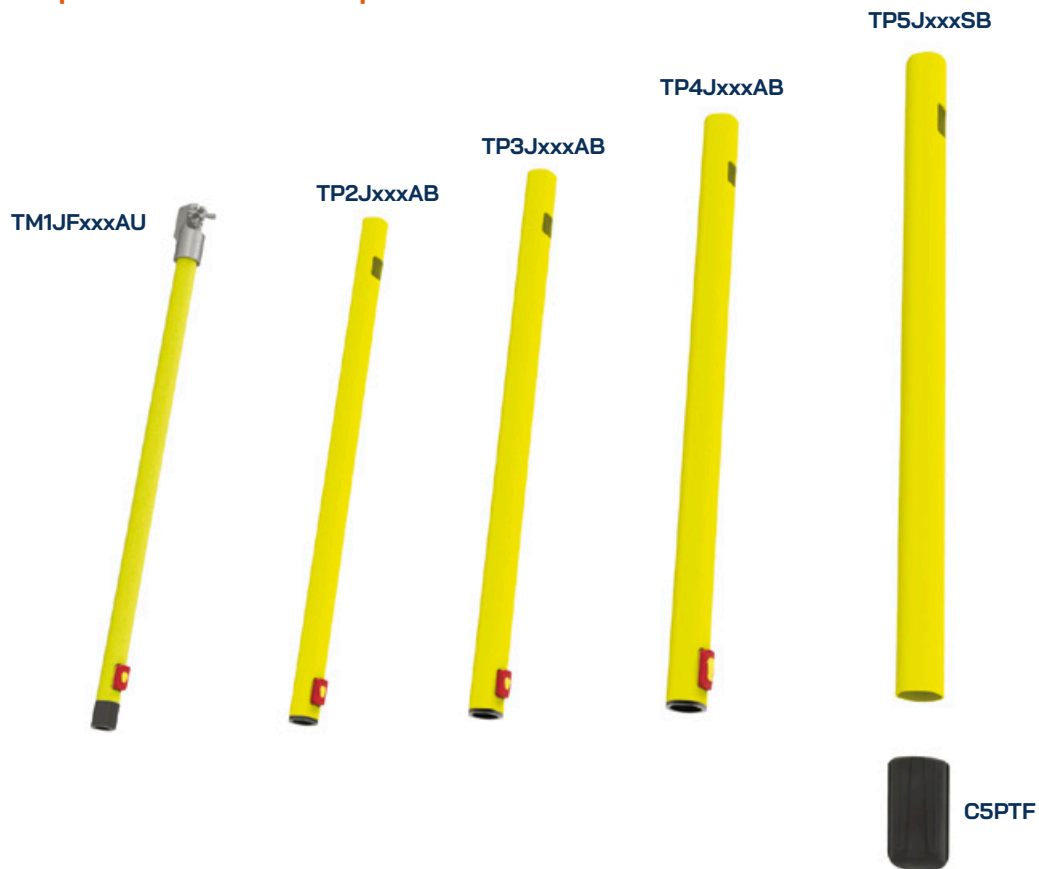


**KPCT23**

## PentaPole Compact - Replacement Composition

Detailed Composition of Each PentaPole Part Number							
	Number of Element	Part # for Toam Tube	Part Number of Hollow Tubes				Part Number for End cap
PPOLC5/08H-PTA	5	TM1JF046AU	TP2J049AB	TP3J053AB	TP4J059AB	TP5J059SB	C5PTF
PPOLC5/012H-PTA	5	TM1JF076AU	TP2J079AB	TP3J084AB	TP4J090AB	TP5J089SB	C5PTF
Position of Element (from top to bottom)	TOP	1	2	3	4	5	Bottom

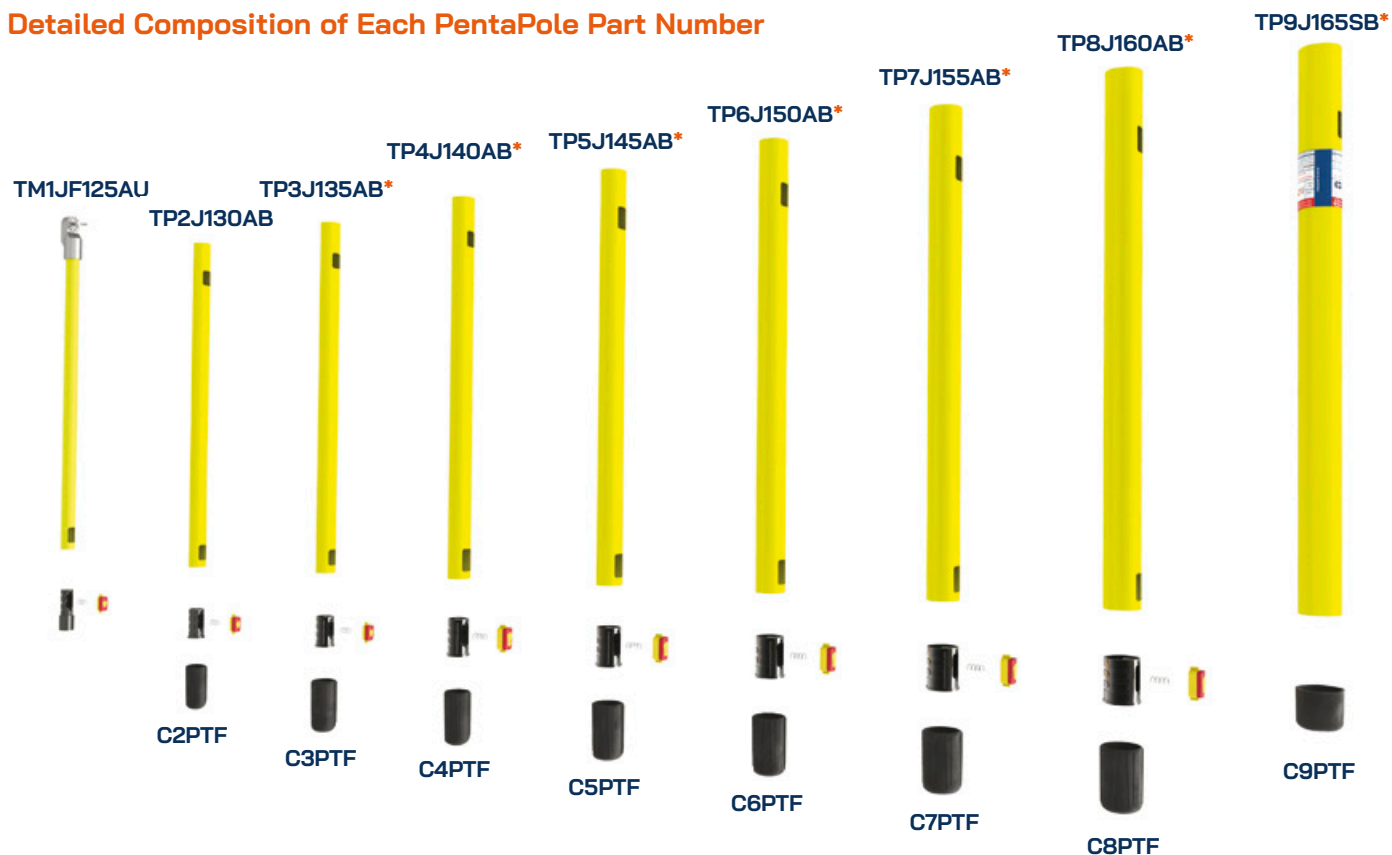
## Detailed Composition of Each Compact PentaPole Part Number



## PentaPole - Replacement Composition

Detailed Composition of Each PentaPole Part Number												
	Number of Element	Part # for Foam Tube	Part Number of Hollow Tubes									Part Number for End Cap
PPOL3/12H-PTA	3	TM1JF125AU	TP2J130AB	TP3J135AB*	* For your final bottom section: Replace in the Part # AB by SB Example: PPOL4/16H-PTA, last section is: TP4J140SB						C3PTF	
PPOL4/16H-PTA	4										C4PTF	
PPOL5/20H-PTA	5										C5PTF	
PPOL6/25H-PTA	6										C6PTF	
PPOL7/30H-PTA	7										C7PTF	
PPOL8/35H-PTA	8										C8PTF	
PPOL9/40H-PTA	9										TP9J165SB*	C9PTF
Position of Element (from top to bottom)	TOP	1	2	3	4	5	6	7	8	9	Bottom	

## Detailed Composition of Each PentaPole Part Number



## A worker in a blue shirt and white hard hat is operating a large industrial machine, possibly a pump or generator, with a large white tank in the background. The worker is using a tool to adjust a component on the machine. The machine has several circular gauges and a warning label that says "DANGER". The background shows a large white tank and some greenery.



**PENTA**  
ELECTRICAL SAFETY PRODUCTS

(980)265-2612 | [info@pentaesp.com](mailto:info@pentaesp.com)

PENTA Electrical Safety Products, LLC  
8100 Arrowridge Blvd, Suite G  
Charlotte, NC, 28273