

ELECTRICAL SAFETY PRODUCTS

CATALOG 2026



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Our Mission

To go ever further to support our customers, to combine our complementary skills in 3 areas of solutions: **PROTECT | SECURE | WORK**, continuing to innovate, combining performance and responsibility.

This customer-focused mission unites our teams in a shared desire for efficiency, flexibility, and responsiveness, and motivates our day-to-day actions.

To offer reliable, high-quality products, innovative solutions, and impeccable service so that our customers can work confidently and under the best possible conditions to maintain electricity supplies throughout the country. In this way, we are helping to serve the major public interest of access to energy.

Our Promise To You

For customers | for employees | for partners

Delivering a competitive service to our customers and complementary manufacturer-expert expertise in 3 areas of customer-focused solutions: **PROTECT | SECURE | WORK**

Committing to our customers to be a driving force behind their proposals and to provide them with a comprehensive, relevant, coherent, solutions that offer and meets the changing needs on a day-to-day basis.

Supporting our customers in long-term partnerships by mobilizing all our resources and all the knowledge we have acquired in each domestic market to build the best offer.



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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. Our North American location established in 2017 and headquartered in Charlotte NC and our factories build on decades of experience. In conjunction our engineering staff understand how to support and fulfill your electrical safety needs and requirements.

Our focus is to better serve the utility and industrial markets. From 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.

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Pentagonal Shaped Telescoping Stick

The unique curved pentagonal shape fits comfortably in hand while remaining close to the 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 / CEI 60855-1 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 Penta Pole has a 15% higher mechanical strength, and is 13% lighter than previous generation product.

- Structural finish further improves mechanical properties of tubes and further increases **longevity**
- Our finishing varnishes increase UV, water and oil resistance properties of our tubes
- More ergonomic tools reduce Musculoskeletal Disorder related injuries



Ergonomically designed grip



Locking button



PPOL9/40H-PTA

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

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

Pentagonal Shaped Telescoping Measuring Stick

PentaPole Measuring Stick offers measurement graduations on each section easily allowing measurement of heights from 25 to 40 feet. Measurement markings are sublimated in the fiber making these markings wear resistant.

Round Terminal Tube ASTM F711 / CEI 60855-1

The terminal tube is round and built on a rigid, waterproof polyurethane foam. The circular terminal tube's shape responds fully to the scope and requirements of the ASTM F711 / CEI 60855-1 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 and measurement identifiers will not crack, peel, rub off or wash away.

Locking Button

A sturdy wide bi-material button automatically locks in place when deploying Measuring Stick. Unlocking and folding is achieved by a simple press 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.



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 IEC 60855-1 standards.

Clampsticks meet ASTM F1825 standard.

Available with or without universal end fitting and supplied with integrated suspension hook.

Suspension hook is easily replaceable if broken or damaged.



Interchangeable Hook

Clampstick - External Rod with Universal Adapter and without

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
PCT46-PTA	Clampstick	4'6"	4
PCT66-PTA	Clampstick	6'6"	5
PCT86-PTA	Clampstick	8'6"	6
PCT106-PTA	Clampstick	10'6"	7
PCT126-PTA	Clampstick	12'6"	8

Pentagonal Shaped Clampstick - External Rod

Part Number	Description	Length	Weight (lbs)
LW03-03-32-120	Clampstick Extension	3'11"	4

NEW PRODUCT

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.



LW03-03-32-120



Rubber End Cap



Universal End Fitting



PCT66-PTA

Link Sticks

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

Strap Hoist Link Stick

Part Number	Style	Maximum Capacity (lbs)	Total Length (in)	Insulated Tube Length	Opening Diameter	Weight (lbs)
ISOLINK12-1	Hoist	4000	23"	12"	-	3.5
ISOLINK12-2	Hoist	4000	23"	12"	-	3.5
SPIRALINK12-PTA	Spiral	2000	24"	12"	Maximum conductor size 795 MCM	2.8
SPIRALINK24-PTA	Spiral	2000	36"	24"		3.1
SPIRALINK36-PTA	Spiral	2000	48"	36"		3.5
SPIRALINK48-PTA	Spiral	2000	60"	48"		3.8
SPIRALINK60-PTA	Spiral	2000	72"	60"		4.1

Please contact PENTA ESP for additional lengths.

NEW PRODUCT



Pentagonal Sticks- 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).

Pentagonal stick improves operators' torque ability. With a better and more ergonomic grip, operations will require less effort from the worker.

Manufactured in accordance with ASTM F711 and IEC 60855-1 standards.

Clampsticks meet ASTM F1825 standard.

Available with or without universal end fitting and supplied with an integrated suspension hook.



PCT66-PTA

Pentagonal Clampstick - External Rod with Universal Adapter and without			
Part Number	Description	Length	Weight (lbs)
PCT46UE-P-PTA	Pentagonal Clampstick - Universal Head	4'6"	4
PCT66UE-P-PTA	Pentagonal Clampstick - Universal Head	6'6"	5
PCT86UE-P-PTA	Pentagonal Clampstick - Universal Head	8'6"	6
PCT106UE-P-PTA	Pentagonal Clampstick - Universal Head	10'6"	7
PCT126UE-P-PTA	Pentagonal Clampstick - Universal Head	12'6"	8
PCT46-P-PTA	Pentagonal Clampstick	4'6"	4
PCT66-P-PTA	Pentagonal Clampstick	6'6"	5
PCT86-P-PTA	Pentagonal Clampstick	8'6"	6
PCT106-P-PTA	Pentagonal Clampstick	10'6"	7
PCT126-P-PTA	Pentagonal Clampstick	12'6"	8

Pentagonal Hot Stick

Pentagonal stick improves user's torque ability. Improved more ergonomic grip require less worker effort.

Pentagonal Hot Stick With Universal End Fitting			
Part Number	Universal End Fitting Placement	Length	Weight (lbs)
US4SU-P-PTA	On One End	3'-9"	2.6
US6SU-P-PTA	On One End	5'-9"	3.3
US8SU-P-PTA	On One End	7'-10"	4.0
US10SU-P-PTA	On One End	9'-10"	4.6
US12SU-P-PTA	On One End	11'-10"	5.3
US4DU-P-PTA	On Both Ends	3'-9"	2.6
US6DU-P-PTA	On Both Ends	5'-9"	3.3
US8DU-P-PTA	On Both Ends	7'-10"	4.0
US10DU-P-PTA	On Both Ends	9'-10"	4.6
US12DU-P-PTA	On Both Ends	11'-10"	5.3



US6DU-P-PTA

Switch Stick and Disconnect Stick

Insulating foam cored fiber reinforced stick, orange color with universal end.

Pole diameter 1.25" (32mm).

Manufactured in accordance with ASTM F711 and IEC 60855-1 standards.

Hot Stick With Universal End Fitting			
Part Number	Universal End Fitting Placement	Dimensions	
		Length	Weight (lbs)
US4SU-PTA	On One End	3'-9"	2.6
US6SU-PTA	On One End	5'-9"	3.3
US8SU-PTA	On One End	7'-10"	4.0
US10SU-PTA	On One End	9'-10"	4.6
US12SU-PTA	On One End	11'-10"	5.3
US4DU-PTA	On Both Ends	3'-9"	2.6
US6DU-PTA	On Both Ends	5'-9"	3.3
US8DU-PTA	On Both Ends	7'-10"	4.0
US10DU-PTA	On Both Ends	9'-10"	4.6
US12DU-PTA	On Both Ends	11'-10"	5.3

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 IEC 60855-1 standards.

Switch Stick (SS) & Disconnect Stick (DS)			
Part Number SS	Part Number DS	Length (ft)	Weight (lbs)
SS6-PTA	DS6-PTA	6'	3.3
SS6U-PTA	DS6U-PTA	6'	3.3
SS8-PTA	DS8-PTA	8'	4.0
SS8U-PTA	DS8U-PTA	8'	4.0
SS10-PTA	DS10-PTA	10'	4.6
SS10U-PTA	DS10U-PTA	10'	4.6
SS12-PTA	DS12-PTA	12'	5.3
SS12U-PTA	SDS12U-PTA	12'	5.3

For other length sticks contact customer service.



NEW PRODUCT

MVDSTICK-PTA

The insulating universal stick allows the use of tools with a universal attachment.

Advantages

- Ergonomic grip thanks to its pentagonal shape which is more adapted to the natural shape of the hand
- 2 colors to identify the insulating part
- Non removable hand guard to avoid problem after testing

Manufactured in accordance with ASTM F711 and IEC 60855-1 standards.

MVD Stick With Universal End Fitting			
Part Number	Universal End Fitting Placement	Dimensions	
		Length	Weight (lbs)
MVDSTICK-PTA	On One End	2'4"	1.1



MVDSTICK-PTA

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.

Hot Stick Bags		Compact Hot Stick Bags	
Part Number	Pocket OAL (in)	Part Number	Pocket OAL (in)
STICKBAG-6	77"	PPOLC5/08H-BAG	26"
STICKBAG-7	89"	PPOLC5/12H-BAG	49"
STICKBAG-9	113"		



Universal Disconnect Hook CMU2

Used for opening and closing switches, and cutouts.

Replaceable Clampstick Hanger Hook Hot Stick HPCT32-PTA

Coated Hanger Hook For 1-1/4" Stick

Universal Fuse Holder UFH

Designed to safely remove or install overhead fuse tube barrels.

Universal Shotgun/Clampstick Adapter LW11-01

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

Aluminum Conductor Cleaning Brush LW11-07

Aluminium Conductor Brush is used to clean aluminium conductors prior to making an electrical connection.

1/2" Square Drive Ratchet Wrench LW11-13

Ratchet wrench is used for tightening and loosening, screwing and unscrewing nuts and bolts used with removable sockets.

Rotary Prong LW11-18

Rotary Prong is utilized for placing looped end insulator ties. Can also be used for installing or removing light ring equipment accessories e.g. long clamps.

Universal Socket LW11-30

Universal Socket is used to hold and operate wire and paint brushes with handle diameter compatible with socket's capacity.

Rotary Blade LW11-41

Rotary Blade is used for unwinding, deforming and breaking tie wire in rigid insulator groove.

Insulator Tester Rod LW11-43

This insulator tester rod is used to detect the presence of anomalies on porcelain, ceramic and glass insulators.

Mirror LW11-44 Large Mirror LW11-45

Angle adjustment enables the operator to inspect insulators, and other equipment which is difficult to see without coming in contact with energized



conductors.

LW11-44 8.2"x4.7"x1.4" 0.7lbs , **LW11-45** 14.5"x10.2"x1.9" 3.5lbs.

Vise Grips **LW11-51**

Vise Grips are used to grip or move various pieces. Jaws may be lock or unlocked by using the movable arm.

1/2" Square Drive Flexible Wrench Head **LW11-61**

It allows to reach bolts and nuts using your insulating sticks.

Pruning Saw **LW11-67**

Pruning saw is used to cut small branches.

Hack Saw **LW11-68**

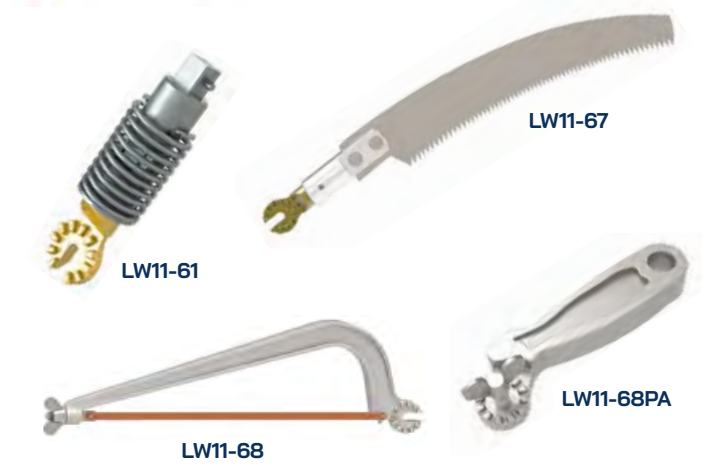
Hack Saw is used to cut metal items and features a universal tip mount with removable handle.

Hawk Saw Removable Handle **LW11-68-PA**

Corrosion resistant metal Hack Saw Handle with universal tip.

Screwdriver **LW11-69**

The screwdriver is used for screwing and unscrewing slotted head screws.



Insulated Rescue Hook

Designed specifically for safety and rescue purposes. PENTA Rescue Hooks are an indispensable life saving device. Ideal for switch-rooms, substations, plant rooms, generator rooms, UPS battery rooms, confined spaces and any area where electrical hazards are present.

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

- 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)



Foam Cored and Foam Filled Insulated Hot Stick Field Inspection Tool

The TTR² 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.)

TTR2 is a multi-functioning device, TTR2 will also inspect fiberglass rod and insulating rope.

Minimum stick length for testing is 6".

Can inspect link sticks.

Use

- 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
TTR2LWF	Insulating stick and rope inspecting device - Metric

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 5/16" to 3/4" 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



Proximity Voltage Detector

The Proxy Tester is an all-weather device for checking the presence of a selected AC voltage in a wide voltage range from low voltage (secondary), medium voltage (distribution) and high voltage (transmission).

It can be used in substations, switchyards as well as on overhead lines and underground networks .

It can integrate up to twelve positions of voltages to selected between a wide range from 110V AC to 750 kV AC (the possible selection depends on the version) .

Advantages

- Proxy Tester provides a proximity detection of AC voltages that remains immune in case of direct contact with the energized line
- Up to 12 selectable voltages within a large range from LV to HV
- Clearly visible selected voltage displayed on an integrated digital display
- Dust proof and water resistant IP66

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 side thanks to an optic ring
- The 100 dB at 3 ft acoustic indication is designed to remain audible even by near by traffic or strong wind, thanks to its acoustic "horn"

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

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

Technical Specifications

- Up to 12 selectable voltages (upon versions) within a wide range from 110 V to 750 kV
- Network frequency: 50/60 Hz
- Installation Type: Indoor/Outdoor
- Climate class: N = from -13°F to 131 °F
- Automatic self - test when the device is switched on
- The self - test checks all the circuits, and the battery level
- Selection of the voltage position by pressing the button successively
- The "ready for use" status is indicated by the → **GREEN light**
- Switch off by a long press on the button
- Presence of voltage as per the selected position → flashing **RED light** and beep
- Low battery level → **ORANGE light**

NEW PRODUCT



HANDLE FOR HANDHELD USE



Proximity Voltage Detector	Voltage Range (kV)	Number of level	Voltage level (kV)*	End Fitting*	Packaging**
PROXY-DIST-H	0.24 -69	7	0.24 -5-15-25 -35-46 -69	Universal/shotgun /Handle	Soft bag with EMC protection
PROXY-URD-H	0.24 -69	8	0.24 URD: 4160 V, 6900 V, 15 kV, 25 kV, 35 kV (CTP) Overhead : 5 -15-25 -35 -46 -69	Universal/shotgun /Handle	Soft bag with EMC protection
PROXY-TR-H	0.24 -500	9	0.24 -46 -69 -115-138-161-230 -345 -500	Universal/shotgun /Handle	Soft bag with EMC protection

Other settings might be available, contact your sales rep

MVD: Distribution 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.

- 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
- Visual indication is visible in all normal working conditions, in sunlight or fog, with a wide angle of visibility and from the side
- 100 dB sound signal, at 3 ft, is designed to remain audible even in traffic or strong wind, thanks to its acoustic “horn”
- 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
MVDX1-GNG-C0446XHUC-3PTA	Voltage Detector Multi Device 4kV to 6kV, 12.5kV to 23kV & 34.5kV to 46kV
ANTMURDF	MVD URD Female Elbow Probe
ANTMURDM	MVD URD Male Bushing Probe
ADVECUCR	Replaceable Adaptor For Different Sticks End Fitting
ADVECU	Replaceable Adaptor For Different Sticks End Fitting

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



MVDSTICK-PTA

The insulating universal stick allows the use of tools with a universal attachment.

Advantages

- Ergonomic grip thanks to its pentagonal shape which is more adapted to the natural shape of the hand
- 2 colors to identify the insulating part
- Non removable hand guard to avoid problem after testing

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

MVD Stick With Universal End Fitting

Part Number	Universal End Fitting Placement	Dimensions	Weight (lbs)
		Length	
MVDSTICK-PTA	On One End	2'4"	1.1

Other lengths available upon request



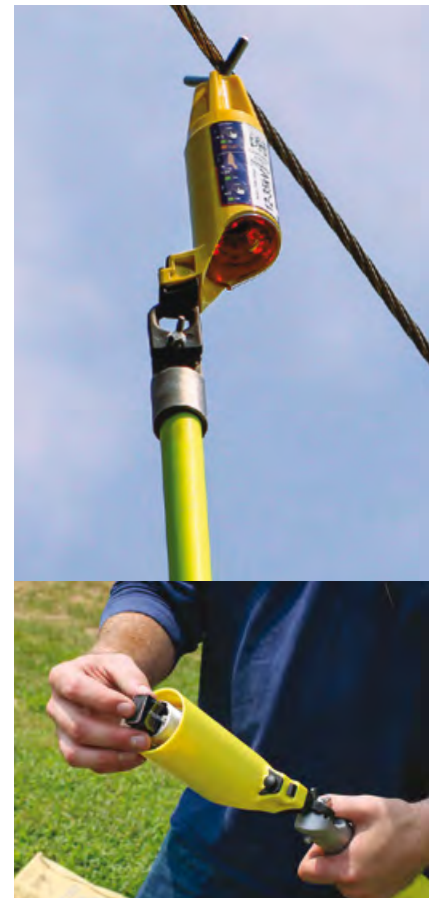
MVDSTICK-PTA



ADVECU



ADVECUCR



MPHASE: Wireless Phase Comparator

Designed to compare phases between two HV circuits of Three Phase system prior to connection. Enhanced indicators can be clearly understood in all working conditions.

Each unit of the set can be used for checking Voltage Presence

- Light and compact these unit may be used outdoor (overhead lines) or indoor (substations) as well as transformer bushings
- Positive indication for "in phase" voltages
- Voltage presence indication
- Indication of active radio link between the 2 units

Standards

- IEC 61481-1 (2014) Live working - Phase comparators

Technical Specifications

- AC voltage range: Selected ranges of voltages between 1kV and 69kV
- Network frequency: 50 and 60 Hz
- HF radio transmission operating at 433,9Mz

Range Customizable from 1kV to 69kV



MPHASE

Electrical Distribution Phasing Testers - Dual testers	
MPHASE0446FCUC	Wireless phase comparator 4-46 kV, Network frequency: 50 and 60 Hz

MEMPHASE : Memory Phase Concordance Indicator

Designed to compare phases between two HV circuits of Three Phase system prior to connection. May also be used for checking voltage presence on line.

Unit may also be used for checking voltage presence

- Light and compact this unit can be used safely outdoors (overhead lines) and indoor (substation) operations
- Positive indication for "in phase" voltages
- Voltage presence indication
- Indication of memorized reference voltage validity

Standards

- IEC 61481-1 (2014) Live working - Phase comparators

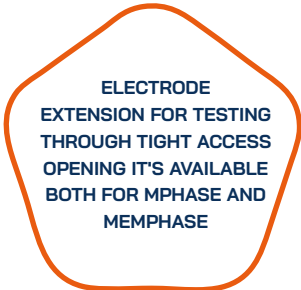
Technical Specifications

- AC voltage range: Selected ranges of voltages between 1kV and 69kV
- Network frequency: 50 and 60 Hz
- Class A $\pm 10^\circ < \phi_p \leq \pm 30^\circ$
- Permanent standby status with automatic wake up function



MEMPHASE

Electrical Distribution Phasing Testers - Single Tester	
MEMPHASE0446FHUC	Memory phase comparator 4-46 kV, Network frequency: 50 and 60 Hz



ELECTRODE EXTENSION FOR TESTING THROUGH TIGHT ACCESS OPENING IT'S AVAILABLE BOTH FOR MPHASE AND MEMPHASE

MVD1-GNG-C CTP Voltage Detector For Capacitive Test Points

Voltage detector for Capacitive Test Point of elbow connector. These voltage detectors are designed for "proving dead", making sure that nominal voltage is actually absent on capacitive test point of elbow connector (no-voltage verification):

Each unit of the set can check for the presence of voltage

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

- Device will detect any nominal voltage on capacitive test point
- It will avoid detecting most induced voltages in order to allow grounding operations

Standards

- *Capacitive type to be used on electrical installations with phase-to-phase nominal voltages between 3kV and 36kV*

The voltage seen on a capacitive test points is 10–12% of line-to-ground voltage.

Rounding Numbers

15kV @ capacitive test point = 1kV

25kV @ capacitive test point = 1.8kV

35kV @ capacitive test point = 2.4kV

Technical Specifications

- AC voltage on Capacitive Test Point of elbow connector
Network frequency: 50 and 60 Hz
- Permanent standby status with automatic wake-up function
- The presence of voltage within the calibrated range or above is indicated by a **RED light** and a beeping sound
- Self-test OK: the OK status (ready for use) of the device is indicated by a **GREEN light**
- The self-test checks all the circuits, the reference detection level and the battery voltage
- The "ready for use" state is indicated by the green indication for 1.5 minutes
- A low battery level is indicated by an **ORANGE light**
- Designed for outdoor and indoor use
- Operating temperature: -13° to +131° F (-25° C to +55° C)
- Humidity: 96% max
- Power supply voltage: 9 V alkaline cell
- Accepts the use of rechargeable battery with identical supply voltage
- Orange polycarbonate housing
- Dimensions: Ø 2,32", L = 11" (Ø 59 mm, L = 280 mm) without the contact electrode
- Net weight: 0.8 lb (0,390 kg) with stick adaptor
- Operating manual with a choice of languages, depending on the package



Electric Voltage Detector	Voltage Range	Frequency	Housing Color	End Fitting*	Packaging**
MVD1-GNG-CTPXHUC-PTA	MV Capacitive test point (240V)	10/60 Hz	Orange	Universal (U) & Shotgun (CR)	Soft case with conductive lining for EMC protection

* Other stick adaptor available on request. ** Soft case version available on request.

ACCESSORIES



HVD1-GNG-C: HV Transmission Voltage Detector

The HVD1 voltage detector is designed for "proving dead." Ensuring the absence of nominal voltage on a circuit in a HV transmission system between 50kV and 765kV (no-voltage verification): Device will detect nominal voltage on overhead lines and stations and will avoid detecting most induced voltages allowing grounding operations.

Visual and audible indication are clearly recognized in all working conditions

- Visual indication in all working condition (fog, sunlight) is assisted by a wide angle optic ring design
- Acoustic horn is designed for the noisiest environments with an audible signal amplified to 100dB

With easy access to battery and sealed electronics. 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
HVD1-GNG-C138500-XHUC	HVD1 High Voltage Detector 138kV to 500kV
ADVECU	Replaceable Adaptor For Different Sticks End Fitting
ADVECUCR	Replaceable Adaptor For Different Sticks End Fitting

IProbe Current Flow Probe (Current Indicator)

IProbe Current Flow Probe is dedicated to trouble-shooting teams tasked with determining the status of unknown cables. IProbe offers an indication if cable is in use: Detection of 50/60Hz.

Advantages for identifying loaded cables

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.

- Prevent destroying loaded cables presumably abandoned
- Enables quick scan of cables to identify conductors under load in 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
- Minimum current detected: 0.5A

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 during energized work
- Instead of a de-energized cable identifier during an off-grid procedure
- On bare (un-insulated) conductors

IProbe Current Flow Probe	
IProbePTA	50/60 Hz Detection, with case



IProbePTA

V CHECK

Capacitive and Proximity Voltage Detectors Testing Unit

V CHECK voltage detector testing unit is designed to check most of capacitive voltage detectors that comply with IEC 61243-1

- V CHECK allows you to confirm your MVD voltage detector or other capacitive detector is working properly when no "known real voltage is available"
- V CHECK is 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 allows testing of most IEC 61243-1 capacitive voltage detectors
- Easy to use - simply touch the voltage detector contact electrode with V CHECK contact point and press button
- Compact and lightweight
- Battery powered (autonomy: up to 1000 tests)
- Red LED warning during the test
- Low battery indicated by orange LED



VCHECKHX-PTA

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)

V Check

VCHECKHX-PTA Capacitive voltage detector proving unit

DC Voltage Detector With Remote Voltage Indicator

DC Voltage Detector consists of 2 units used for no-Voltage Testing on direct current (DC) overhead lines (mainly transport overhead line: trolleys, metro, trains).

- DC bipolar voltage detector range: Un=40V to 3600VDC
- Meets IEC 61243-2
- Double voltage indication, powerful sound and flashing light indication
- Presence of real DC voltage indicated by audible and flashing hi-vis red light
- Operating temperature -13° F to 131° F
- Presence of induced alternative voltage indicated by high-brightness blue light
- Up to 36 kV surge intensity withstanding



NEW PRODUCTS

DC Voltage Detector with Remote Voltage Indicator

Part Number	Voltage range	End fitting	Weight	Packaging
DCC3600MU40V-PTA	40 -3600 V	Universal	17.6 lbs (with case)	Hard case
DCC3600MU40VKIT-PTA	40 -3600 V	Universal	17.6 lbs (with case)	Hard case

Comes with 25ft stick PPOL5/20H-PTA

RAILROAD



DCC3600MUPTA

FC Ultimate Cable and Phase Identifier

FC ULTIMATE provides all necessary information at the job site for dead cable, phase and cable end identifications.

It combines :

- 2 transmitters with 3 induction clamps each
- A hand-held receiver displaying all information

It works on all cable types and configurations

Advantages

1. Safe Operation: cable, phase and cable end identification are performed on dead cable equipped with short circuit at both ends (and connected to ground).

All information available when and only when both ends are short circuited

2. Secured Signal:

- **Coded and confined signal:** the transmitted signal is coded and confined inside the circuits provided by the short circuits on both ends of the cable. The signals flow in conductor circuits isolated from shields and groundings
- **Simple induced signal:** This signal is sent along the short circuited conductors thanks to three transducer clamps set on cable terminals

3. Receiver Unit Displays Information Without Interpretations:

- **All necessary information available at the job site without commuting:** The signal can be received on the different configurations thanks to adapted probe and functions: the phase ID is displayed (A B C) and the transmitter positions at the cable ends
- **Signal reception can be customized by recorded voice message:** A voice message can be associated with each transmitter channel (1 to 8) and be delivered for transmitter/cable end identification when and only when an identification is confirmed.

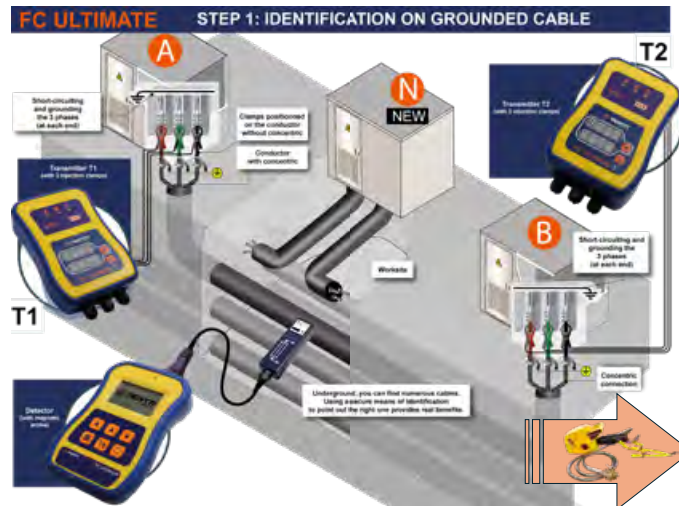
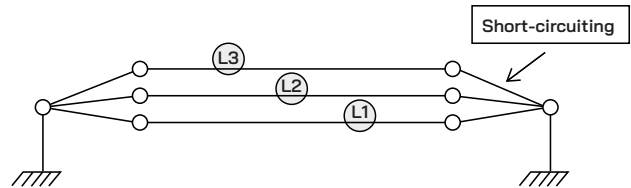
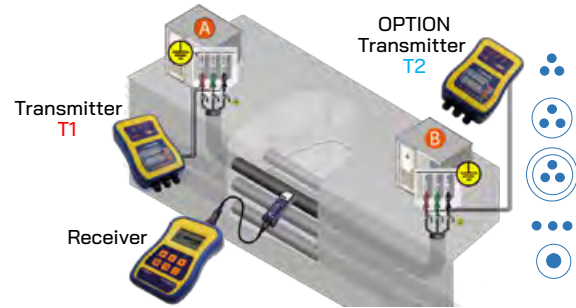
4. Specific Uses:

- **Faulty Cables:** Cable identification can be available, provided that two phase conductors are still healthy (continuity and insulation)
- **Single phase Identification** is also possible buy using the concentric shield as a second conductor
- **Network mapping:** You can use the possibility of 8 different transmitter index for mapping up to 8 circuits during the same job.

Technical Specifications

- **Type of cables:** PILC, XLPE, SWA, single core, three core cables / w.wo neutral conductor
- **Lengths:** LV up to 1 ¼ miles, HV distribution up to 12 miles, HV transmission up to 25 miles
- **Cable configuration:** parallel, layers, bundles and overhead line
- **Cable sections:** specific advance mode can provide identification from LV 4 x AWG 7 to HV 220 kV 4500 kcmil

Field Adapted Packaging: Ergonomic soft cases fitted to the carrying hard case. Total weight 32,4lb (21lb for the single transmitter version).



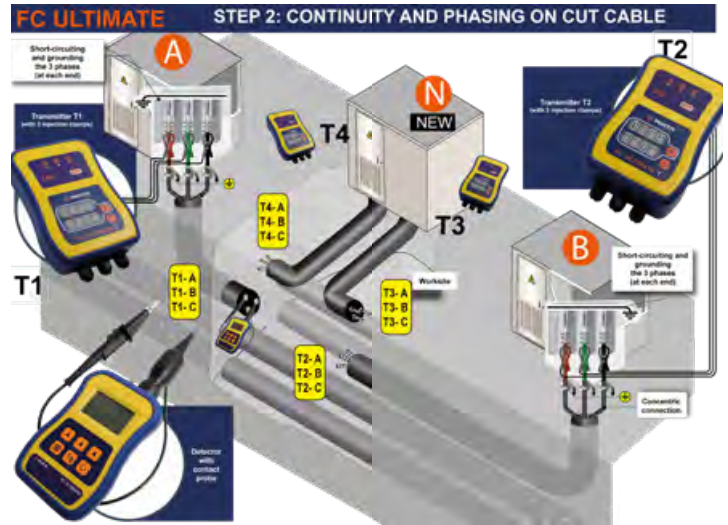
FC Ultimate Product Range

Performances Levels

- **Essential:** Standard plug & play identification mode. Guaranteed identification accuracy on cables at least 2 in apart
- **Superior:** Standard + Advanced identification modes. Guaranteed identification accuracy on side-by-side cables
- **Pro-Elite:** Standard + Advanced + Expert identification modes + IPROBE function. Selection of loaded cables (Magnetic straight probe and Rogowski loop) + enhanced information for a better diagnostic in doubtful and risky cases (like faulty cables)

Cable Identification Settings

- **LV settings:** straight probe can identify only LV cables, with LV thin insulation layer and conductors' cross section up to 50 MCM
- **MV setting:** LV settings + MV settings: straight probe can identify HV cables with thicker insulation layers (<70kV) and conductors' cross section up to 2000 MCM
- **HV setting:** LV + MV settings + VHV settings: straight probe can identify VHV cables with thicker insulation layers (<400kV) and conductors' cross sections up to 3200 MCM



Checking phase consistency from two transmitters before and after operations

NEW PRODUCT



Part Number	Essential	Superior	Pro-Elite
LV	LV cables Standard mode	LV cables Standard mode Advanced Mode	LV cables Standard mode Advanced Mode Expert Mode IPROBE
MV	LV + MV cables Standard mode	LV + MV cables Standard mode Advanced Mode	LV + MV cables Standard mode Advanced Mode Expert Mode IPROBE
HV	LV+MV+HV cables Standard mode	LV+MV+HV cables Standard mode Advanced Mode	LV+MV+HV cables Standard mode Advanced Mode Expert Mode IPROBE

Hydraulic Underground Cable Cutter

Hydraulic underground cable cutter with spiking blade and grounding clamp. Designed for testing and cutting of de energized underground cables securing the operator and network. Available in different sizes for all type of cable.

Characteristics

- Remote controlled by wireless communication
- All cutting blades feature an integrated spike
- Compact all integrated electro-hydraulic unit with automatic double speeds
- Extended range of blades opening: 1.97", 2.56", 3.15", 3.94" and 5.51" for uses from street lighting to transmission cables
- Powerful enough to cut steel wire armored cables, refer to product sheets
- Cable retention strap to maintain the cable with this tool when cut is completed
- Auto-cut system on request
- 1600 PSI bar double pump hydraulic unit
- Protection mat to cover tool during operation
- IP67 waterproof housings for 1.97", 2.56", 3.15", 3.94" and 5.51" blades opening
- Two Makita 18V rechargeable batteries and one Makita battery charger are included with all units
- 25 years of expertise in De-Energized Testing (DET) spiking and cutting tools
- Compliance to existing standards NFC1850, EN 50340



NEW PRODUCTS



PICOU P110



PICOU P80



PICOU P65



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

Hydraulic Underground Cable Cutter

Part Number	Description	Weight (lbs)	Cutting Capacity
PICOU P110	Hydraulic Underground Cable Cutter - opening size 4.33" ² , Aluminium 6.56'	37	Opening diameter 4.35"
PICOU P80	Hydraulic Underground Cable Cutter - opening size 3.15" ² , Aluminium 6.56'	23.15	Opening diameter 3.15"
PICOU P65	Hydraulic Underground Cable Cutter - opening size 2.56" ² , Aluminium 6.56'	20	Opening diameter 2.56"
PICOU P50	Hydraulic Underground Cable Cutter - opening size 1.97" ² , Aluminium 6.56' 6.56'	18.84	Opening diameter 1.97"

Live Line Insulator Tester IT500 and IT500W

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

IT500 and IT500W are user friendly. Power on the tool and it is ready to test. One inch tall and high contrast LED indicator is easy to read at distance and under direct sunlight.

IT500

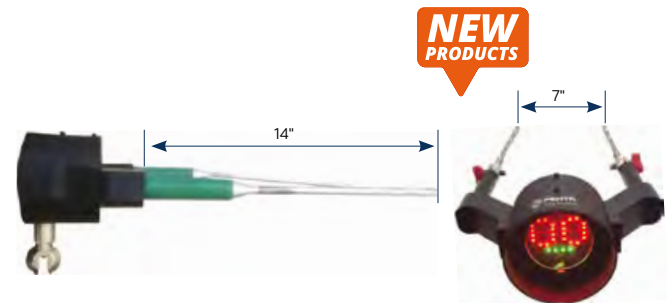
- Live measurements reading
- Requires drawing graph to analyze Wi-Fi model, remote readings

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

Keeper

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

By using the Keeper you minimize:

- Electrical risk associated with any source of voltage from power lines, cables and downed installations in storm zones
- Risks of electric arc associated with high current sources in panels, disconnects and individual installations

When mounted on the visor of a safety helmet. Keeper alerts the user in real time through lights and audible alarm. Visor location also allows use of peripheral vision.

Keeper detects 360 degrees around user and not only indicates hazard but offers direction and approximate distance of threat.

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



DOWNLOAD
KEEPER MANUAL



KEEPER Personal Voltage Detector

Part Number	Description	Voltage	Weight (oz)
KEEPER	"Keeper" Personal Voltage/Current detector, 3.75" X 1.25"	50V to 500kV	1.2

Aladin Individual Voltage Alarm With Headlight

Aladin is designed to provide an extra level of safety for workers operating near energized equipment (during maintenance, rescue operations, painting, pruning). Aladin combines a headlight and personal voltage alarm providing 360 degree detection around user.

Aladin Personal Voltage Detector

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



ALADINCEFC-PTA



Voltage Tester for LV Network

Unipolar detector designed to test the presence of potential voltage on insulated or bare low voltage (LV) conductors. The level of detection is indicated by a LED bar graph and a audible sound increasing in speed as device approaches a live source. 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 protective cover that can be attached to the utility belt
- Presence of voltage not presence of phase



LVD1U-P-PTA



Volatge Tester for LV network

LVD1U-P-PTA	Hand-held, 1000V CAT IV -IP65
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Phase Rotation Indicator - 480V

Phase Rotation Indicator tests phase rotation on LV three phase system.

Device designed for field use:

- Heavy-duty water resistant housing
- Weatherproof
- Supplied in a soft case
- Product is rated IP65 & CAT IV 600v
- Other markings or colors are available on-demand

Phase Rotation Indicator - 480V

DR706IVPTA	Phase rotation indicator
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Available with probes



DR706IVPTA

Low Voltage Detectors

Heavy duty voltage detector for determining the absence of voltage or providing numeric voltage reading 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 (< 80Ω)

- Unique bright LED display can be read in sunlight
- Ergonomically shaped to fit comfortably in in gloved hand
- 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 dust-proof 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 80Ω)
- Phase identification in single-pole mode (either test probe may be used)
- Front light
- Protected against water and dust : IP65
- Protected against overvoltage CAT IV 1000V
- Comes with 2 AAA batteries



Instruction may be found on case

LVDDV11-GNG-PTA



LVD-EXTENSION

LVD1DI-GNG-C-PTA

- 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

LVD1-GNG-C-PTA

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

LVD1RI-GNG-C-PTA

- 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

Low Voltage Detectors	
LVD1DI-GNG-C-PTA	LVDV1 Low Voltage Detector 5V to 1000V, Phase rotation, bag and user manual, 3 different tips
LVD1-GNG-C-PTA	LVDV1 Low Voltage Detector 12V to 1000V, Phase indication (unipolar), bag and user manual, 2 different tips
LVD1RI-GNG-C-PTA	LVDV1 Low Voltage Detector 12V to 1000V, Phase rotation, bag and user manual, 2 different tips

Rubber Insulating Gloves

The most ergonomically designed rubber insulating gloves for electrical workers.

Part Number	Color	Class	Max. use voltage	Length	size
RIG-0-SC-11-Y*-7	Yellow Black Red	Class 0	1,000V AC 1,500V DC	11" 28 cm	7
RIG-0-SC-11-Y*-8					8
RIG-0-SC-11-Y*-9					9
RIG-0-SC-11-Y*-10					10
RIG-0-SC-11-Y*-11					11
RIG-0-SC-11-Y*-12					12

* Available in black and red. Denote color Y= yellow. R=red. B=black in part number prior to size designation. E.g. RIG-0-SC-11-Y-9.
Example : the yellow glove class 0 size one in yellow is "RIG-0-SC-11-Y-9". The same glove in black is "RIG-0-SC-11-B-9"

Available Colors



Leather Protectors

OSHA requires rubber insulating gloves be worn with glove protectors. Our leather protectors meet the latest revision of ASTM F696 and have been tailored perfectly to fit PENTA rubber insulating gloves - "like a glove." Making them the most comfortable combination on the market.

Part Number	Length	size
LGP10C-7	10" 25.5 cm	7
LGP10C-8		8
LGP10C-9		9
LGP10C-10		10
LGP10C-11		11



CLEARANCE TABLE FOR LEATHER PROTECTORS PER ASTM F496 - TABLE 4		
GLOVE CLASS	MIN. DISTANCE BETWEEN PROTECTORS AND RUBBER GLOVES	
00	1/2" from cuff	13mm
0	1/2" from cuff	13mm
1	1" from cuff	25mm
2	2" from cuff	51mm
3	3" from cuff	76mm
4	4" from cuff	102mm

Adapted, with permission, from F696 Standard Specification for In-Service Care of Insulating Gloves and Sleeves, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. A copy of the complete standard may be obtained from ASTM, www.astm.org.



Finding Your Size | How To Measure Your Glove Size

Circle your hand with a measuring tape leaving out the thumb - as noted in the photo. Close your hand without excessive clenching and take measurement. Compare the measurement with the conversion chart below.

Recommended size*	7	8	9	10	11	12
Hand measurement	7" 18 cm	8" 20 cm	9" 23 cm	10" 25 cm	11" 28 cm	12" 30 cm



Finding Your Size
Palm Measurement

* If used with liners, you may need to use one size up.

Rubber Insulating Sleeves

- Made from natural rubber, offering outstanding dielectric properties along with flexibility, strength, and durability
- Made with premium-quality natural latex, free from solvents
- Dipped manufacturing process ensures exceptional comfort and flexibility
- Ergonomic curved* design helps reduce user fatigue during extended use
- Straps and buttons keep the sleeve securely in place
- Color-coded label provides quick and clear verification of regulatory compliance
- Eco-friendly production using a water-based dipping process

Standard

- Compliant with ASTM D1051 Standard

Technical Data

Material	Natural Rubber
Color**	Yellow / Red
Sizes	Small – Regular – Large – X-large
Packaging	1 pair per Aluminum bag, cardboard box
Box Dimensions	32" x 14" x 2.5" / 81cm x 35.5cm x 6.3cm

***Straight Sleeves available upon request**

**** More colors available**

Contact your Regional Sales Manager for additional information.

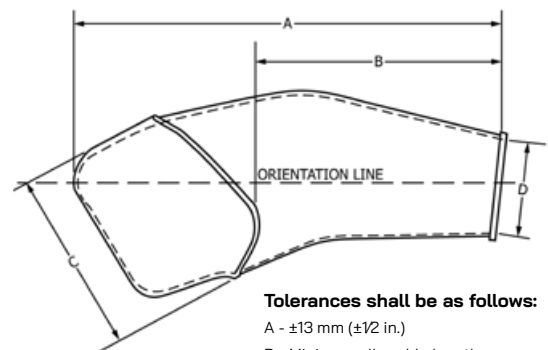


Rubber Insulating Sleeves

The most ergonomically designed rubber insulating sleeves for electrical workers.

DIMENSIONS

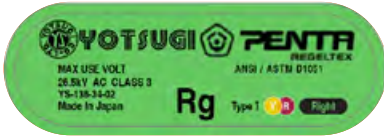
Dimensions: in (mm)				
	Small	Regular	Large	X-Large
A	24.25 in (616 mm)	26.5 in (673 mm)	27.75 in (705 mm)	29.5 in (749 mm)
B	15.13 in (384 mm)	15.5 in (394 mm)	16 in (406 mm)	17.5 in (445 mm)
C	12.5 in (317 mm)	12.25 in (311 mm)	12.87 in (327 mm)	12.87 in (327 mm)
D	5.75 in (146 mm)	5.25 in (133 mm)	6.87 in (175 mm)	7 in (178 mm)



Tolerances shall be as follows:

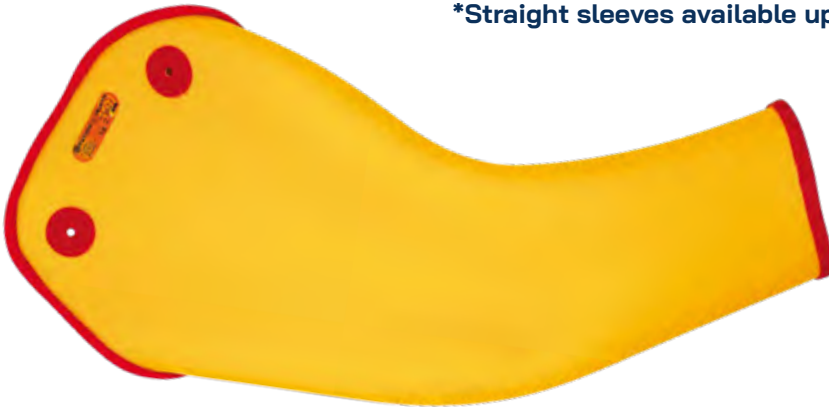
- A - ±13 mm (±1/2 in.)
- B - Minimum allowable length
- C - ±13 mm (±1/2 in.)
- D - ±6 mm (±1/4 in.)

Rubber Insulating Sleeves



Part Number	Class	MAX USE AC Volts	MAX USE DC Volts
RIS-2-RY-S	2	17,000	25,500
RIS-2-RY-RG			
RIS-2-RY-L			
RIS-2-RY-XL			
RIS-3-RY-S	3	26,500	39,750
RIS-3-RY-RG			
RIS-3-RY-L			
RIS-3-RY-XL			
RIS-4-RY-S	4	36,000	54,000
RIS-4-RY-RG			
RIS-4-RY-L			
RIS-4-RY-XL			

*Straight sleeves available upon request



Sleeve Accessories



RIS-STRAPS



RIS-HARN



RIS-BTN-S

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



Why Inspect Gloves?



Before each use, insulating gloves should be visually inspected and air pressure tested. (According to OSHA requirements 1919-137(c)(2)(iii) to (iv).

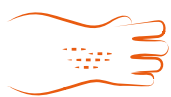


Visual and meticulous inspections of the entire surface of the glove is necessary to detect any perforations or other defects such as, but not limited to:

- Holes
- Cuts, Including Ozone Damages
- Chemical Stains
- Burn Marks
- Material Alteration



Particular attention should be paid to palm, fingers and between the fingers. Inspection must be done before each use.



- In the event of defect do not use the glove
- If in doubt, do not use the glove and send it back for inspection and electrical test
- Using PENTA's glove inflator will greatly improve quality of visual inspection



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 visual inspection.

Portable Glove Inflator	
EOSXL	Portable Glove Inflator
EOSXMO	Portable Glove inflator with Magnet

Additional ring for larger glove and bell cuff included



EOSXL-PTA

EOSXMO



Insulated Jumper - Patented

It is a natural phenomenon that the electrical lines vibrate and cause clamps to become loose. Jumper sets left online for an extended period may become loose. In some instances, clamps may 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 workers hand making them more ergonomic and 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



Insulated Jumper Clamps

Part Number	Description	Main Line Range	MAX AMPS Continuous Current	Rating	OAL Length In (mm)	Weight EA Lbs (kg.)
JUMP477-S	Clear Spring-Loaded Jumper clamp	477 MCM (.9"- .162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	12.5" (317)	2.4 (1.1)
JUMP-477	Clear Jumper Clamp	477 MCM (.9"- .162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	12.5" (317)	2.1 (.95)
JUMP954-S	Clear Spring-Loaded Jumper clamp	954 MCM (1.25"- .162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	13.25" (336)	2.9 (1.3)
JUMP954	Clear Jumper Clamp	954 MCM (1.25"- .162")	400	36kV $\phi - \phi$ / 21kV $\phi - \perp$	13.25" (336)	2.4 (1.1)



NEW PRODUCTS



Ergonomically Designed Grip

PENTA ESP Load Break Tool – New Generation

With this new generation product, PENTA ESP brings the Load Break Tool to a new level of performance. The product has been redeveloped with a strong focus on enhanced reliability and improved robustness. Every key aspect of the design has been reviewed to deliver a more durable solution for demanding utility environments.

Developed specifically for overhead line applications, the new version offers significant advantages:

- **Designed for electrical network operations:** Developed with field performance, operator confidence and utility expectations in mind.
- **Enhanced reliability:** Improved consistency of performance for greater confidence during operations.
- **Optimized design:** Review of key components and critical functions to improve overall robustness and functional control.
- **Increased durability:** Designed to better withstand mechanical constraints and intensive field use.
- **Reinforced quality control** and industrialization for improved long-term durability.

In addition to its operational benefits, the **PENTA ESP Load Break Tool** helps reduce installation and operating costs by eliminating the need for load interrupters on each device. Switching procedures are designed to reduce complications while minimizing both the duration and the scope of outages. The **PENTA ESP Load Break Tool** complies with **OSHA 29 CFR Part 1910.269 (l)(12)(i)**, which states that devices used to open circuits under load conditions shall be designed to interrupt the current involved.



PENTA ESP Load Break Tool – New Generation			
Part Number	Voltage	Amperage	Weight (lbs)
LBT1427NG	Nominal 14.4kV / 25kV - Maximum 27kV	Nominal 600A - Maximum 900A	10.25 lbs, with case
LBT2538NG	Nominal 25kV / 34.5kV - Maximum 38kV	Nominal 600A - Maximum 900A	12.13 lbs, with case
LBTSERV	Recommended annual recertification service		

Built-in counter and heavy duty case are standard features for all PENTA Load Break Tools

Portable Load Break Tool

Is designed with the lineman in mind. Used in operation of disconnects, load break switches, capacitor banks, fuse limiters, power fuses and cutouts. Simple to use and allows exceptional control reducing user fatigue. The PENTA ESP Load Break Tool is equipped with a reset handle allowing full tool reset without glove removal. This tool will reduce installation and operation costs and eliminate the need of load interrupters on each device. Procedures for switching are designed to reduce complications and minimize the duration and scope of outages. The PENTA ESP Load Break Tool 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.

TO BE DISCONTINUED WITH INTRODUCTION OF NEW GENERATION LOAD BREAK TOOL

Portable Load Break Tool			
Part Number	Voltage	Amperage	Weight (lbs)
LBT1427C	Nominal 14.4kV / 25kV - Maximum 27kV	Nominal 600A - Maximum 900A	10.25 lbs, with case
LBT2538C	Nominal 25kV / 34.5kV - Maximum 38kV	Nominal 600A - Maximum 900A	12.13 lbs, with case
LBTSERV	Recommended annual recertification service		

Built-in counter and heavy duty case are standard features for all PENTA Load Break Tools



LBT1427NG



LBT1427C

Stripping Pliers For Outer Jacket

Outer jacket removal pliers cut both circular and longitudinal around cable to complete all cuts necessary for removal of outer jacket. Cutting blades are customized for any depth.

Stripping Pliers for Outer Jacket

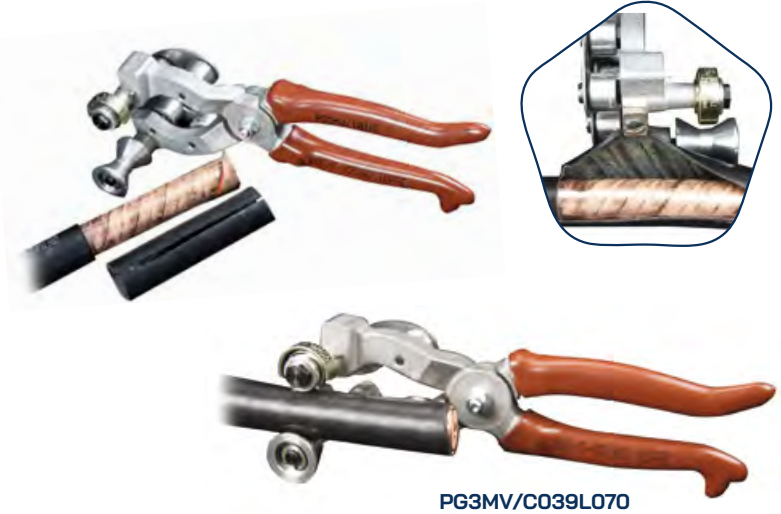
Part Number	Description	OD:
PG2MV/C079L079	Stripping Pliers for Outer Jacket, Cutting Depth 0.079" and 0.079"	0.82 to 1.37"
PG3MB/C039L070	Stripping Pliers for Outer Jacket w/ Handle Lock, Cutting Depth 0.039" and 0.07"	1 to 2"
PG3MV/C039L070	Stripping Pliers for Outer Jacket, Cutting Depth 0.039" and 0.07"	1 to 2"
PG3MV/C055L079	Stripping Pliers for Outer Jacket, Cutting Depth 0.055" and 0.079"	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"
PG6MV/C138L138	Stripping Pliers for Outer Jacket, Cutting Depth 0.138" and 0.138"	3.5 to 4.9"



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

Replacement Blades for PG Series

Part Number	Circular X 4	Longitudinal X 1
PG2MV/C079L079	CCB/079	CLB/079
PG3MB/C039L070	CCB/039	CLB/070
PG3MV/C039L070	CCB/039	CLB/070
PG3MV/C055L079	CCB/055	CLB/079
PG3MV/C110L130	CCB/110	CLB/130
PG4MV/C110L130	CCB/110	CLB/130
PG5MV/C138L138	CCBXL/138	CLBXL/138
PG6MV/C138L138	CCBXL/138	CLBXL/138



Pliers For PiLC Cable

Enables 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

Part Number	Description
PINTEL4PI/C157	Cables up to 1" Penetration in circular cut : 157 mils



Pliers For Lead Sheath Cables

Enables user to perform a circular and longitudinal cut on LV or MV lead sheath cables. Pliers 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



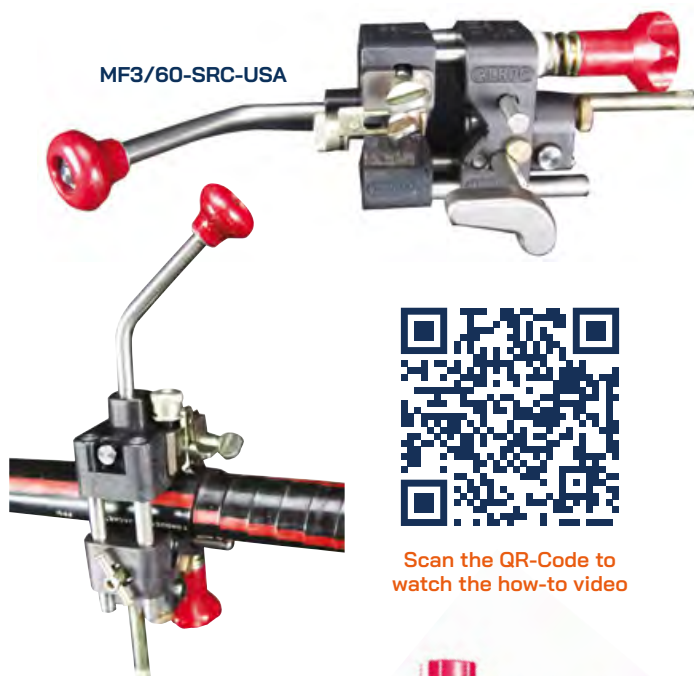
Multifunction Tool

For outer sheath, peelable semiconductor and thick insulation The MF3/60-SRC tool enables the user to remove the outer sheath (PE-PVC-PR) with a straight and neat cut and 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. The F2/60-S-USA and MF2/40-S-USA are Tools to remove outer jacket and insulation (not semi conductor).

Multifunction Tool

MF2/60-S-USA	Multifunction tool up to 2.3" Dia
MF2/40-S-USA	Multifunction tool up to 1.57" Dia
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
Call customer service if the metric numbers are required



MF3/60-SRC-USA



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

CWE Semi Peelable Conductor Scorer

CWE enables the user to score the peelable semiconductor in order to remove it. CWE performs a chamfer on the semicon cutback and its unique design allows for a 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 CWE how-to video



CWE/O_5-2

CWB/12-44 & CWB/18-60

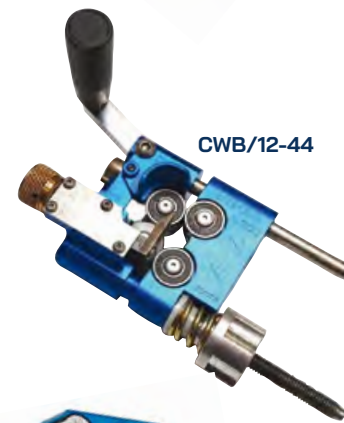
Are tools to enable the user to remove bonded semiconductor with chamfer on the semiconductor cutback.

Semiconductor Cutback

CWB/12-44	Diameter: 0.472 - 1.732 in Thickness capacity: 0.071 in
CWB/18-60	Diameter: 0.709 - 2.362 in Thickness capacity: 0.043 in



MVS



CWB/12-44



CWB/18-60



ORACL

ORACL

The ORACL enables the user to score longitudinally the peelable semiconductive layer in order to peel it off by hand.

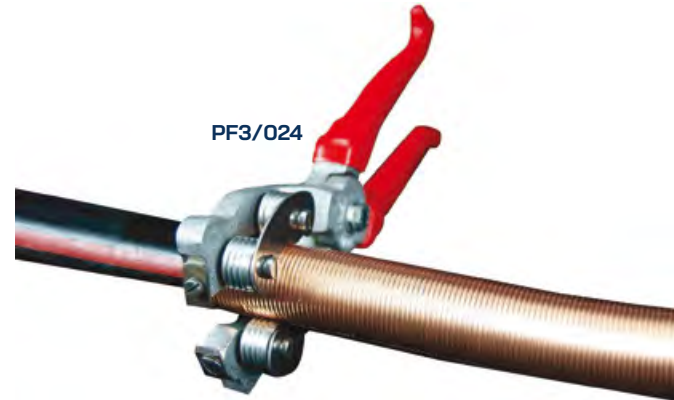
Semiconductor Scorer

ORACL	Diameter: 0.394 - 3.937 in Scoring depth: 16 / 24 / 35 / 43 mil
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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 under.



PF3/024

Pliers for Corrugated Shield

PF3/024	10.5" X 4" X 3.15", 1.2 lbs, Diameter 1.024" to 2.047" (26 to 52mm). Depth of cut 0.024" (0.6mm)
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Chamfering Tools

Part Number	Angle	Capacity (in)
LHA	30°	0.55 - 1.732"
LHA/60	30°	0.787 - 2.165"

Midspan Stripping Tool

DPC/10-45	Insulation Removal In Mid Cable, 0.4 to 1.77"
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Tools for Jacket Abrasion

Part Number	Capacity (in)
ROTO-TMG	0.787 - 2.165"
K7/GRATT	Diameter 0.629" – 2.3", Abrasion Depth 1.96"

Semi-Con Lifter

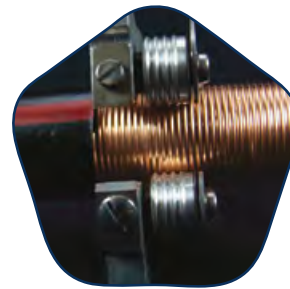
Used to lift scored semi-con without the use of additional tools.

Semi-Con Lifter

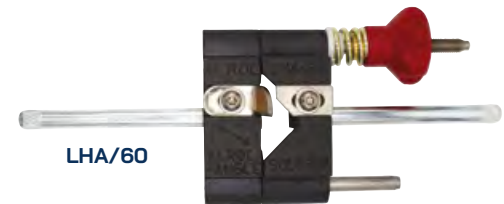
DSP	Semi-Con lifter
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DSP



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



LHA/60



K7/GRATT



DPC/10-45



ROTO-TMG

Cable Sheathing/Insulation Removal Tool

Removes the Outer Sheathing from Low-Voltage (LV) Round cables.

Removes the Insulation from, XLPE, EPR, P-Laser, Medium-Voltage (MV) cables.

The CWI-R is an 'Adjustable Tool' designed to remove the outer sheathing from Low-Voltage (LV) and Insulation from Medium-Voltage (MV) cables.

The tool is Manually operated or can be motorized if using a powered Screwdriver and enables easy cable clamping alongside cutting-depth adjustment.

Advantages

- Robust design
- Easy tightening
- Pre-adjustable for length of insulation to be removed
- Easy to get to grips with
- Motorized option
- Makes clean and precise stops
- Right-hand stop of the insulation cut

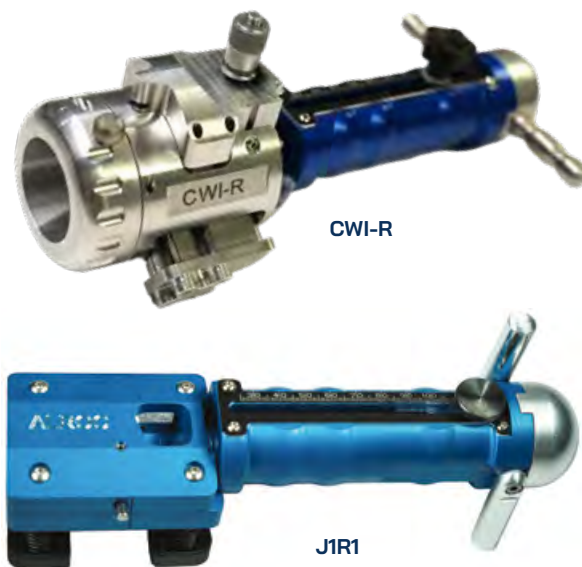
Areas of Activity

- Cable & Connections
- Electrical distribution
- Substation

Technical Specifications

- Max diameter: 1.49"
- Mini diameter: 0.51"
- Cutting length: 0.787" - 3.937"
- Cutting depth (max) on insulation: 0.433"
- Cutting depth (max) on sheath : 0.433"

Cable Sheathing/Insulation Removal Tool			
Part Number	Description	Dimensions	Weight (lbs)
CWI-R	Automatic low voltage stripping tool	9.76" X 3.43" X 3.11"	2.65 lbs.
LCWI	Spare blade for CWI/10-20-30 and CWI-R		



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 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)

Low Voltage Cable Preparation Tool			
Part Number	Description	Dimensions	Weight (lbs)
J1R1	Automatic low voltage stripping tools. Includes a 1mm cutting cassette	8.8" X 2.5" X 3.2"	1.8 lbs.
J1R12	Automatic low voltage stripping tools. Includes a 1mm and a 2.5mm cutting cassette	8.8" X 2.5" X 3.2"	1.8 lbs.
R1	1mm replacement cutting cassette used on J1R1 tool		
R2	2.5mm replacement cutting cassette used on J1R1 tool		

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 an additional reach in confined spaces.

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

Insulated Phillips Screwdrivers

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

Insulated Slotted Screwdriver

Manufactured by injection molding to insulate a unique blade running 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 reaching 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 a result of its density and shock-resistance.

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

Injection molding process allows Penta ESP 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 offering 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 running the entire length of the Screwdriver.

Create Your Own KIT



Smart Diameter Blade

Insulated Slotted Screwdrivers

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

Insulated Nut Driver

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



Insulated Rotoline Screwdrivers

Are PENTA ESP's ergonomic Tools' handle provide greater 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 due to 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. Allowing for quick identification - handle ring color corresponds to screwdriver blade type .

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



Smart Diameter Blade

Insulated Rotoline Phillips Screwdrivers

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

Insulated Rotoline Slotted Screwdrivers

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

Insulated Rotoline Nut Drivers

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



MP18-10-PTA



RL1-PL-3/8X6-PTA

RL1-PH-N2X5-PTA

Insulated Phillips Screwstarter

MP18-3-PTA	Screwstarter OAL 3"
MP18-6-PTA	Screwstarter OAL 6"
MP18-10-PTA	Screwstarter OAL 10"

Insulated Slotted Screwstarter

MU18-3-PTA	Screwstarter OAL 3"
MU18-6-PTA	Screwstarter OAL 6"
MU18-10-PTA	Screwstarter OAL 10"

Insulated Universal Pliers

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

Insulated Universal Pliers	
MS4-7-PTA	Universal Pliers, Lineman 7"
MS4-8-PTA	Universal Pliers, Lineman 8"
MS4-9-PTA	Universal Pliers, Lineman 9"
MS4E-9-PTA	Universal Pliers, Lineman 9" w/ Head
MS4CR-10-PTA	Universal Pliers, Lineman 10" w/ Crimper
MS4-10-PTA	Universal Pliers, Lineman 10"
MC11CE-XL-PTA	Pliers, Flat Nose Composite Ceramic Blades OAL 8"
MC13CE-XL-PTA	Pliers, Bent Nose Half-Round Ceramic Blades OAL 8"
MC45I-XL-PTA	Pliers, Cutting Composite OAL 8"
MC4CE-XL-PTA	Pliers, Universal Composite Ceramic Blades OAL 8"
Insulated Cutting Pliers	
MS60-6-PTA	Pliers, Side Cutting OAL 6.5"
MS60-7-PTA	Pliers, Side Cutting OAL 7"
MS45-8-PTA	Pliers, Cable Cutting OAL 7"
MS45-9-PTA	Pliers, Cable Cutting OAL 9"
Insulated Needle Nose Pliers	
MS10-7-PTA	Pliers, Long Nose Half-Round OAL 7"
MS10E-7-PTA	Pliers, Long Nose Half-Round Straight OAL 7" *
MS13-6-PTA	Pliers, Half-Round 45° Bent Nose OAL 6.5"
MS13-8-PTA	Pliers, Half-Round 45° Bent Nose OAL 8"
MS13E-7-PTA	Pliers, Half-Round Bent Nose OAL 7" *
Insulated Slip Joint Pliers	
MS26-10-PTA	Pliers, Slip-Joint Adjustable OAL 10"
MS26-12-PTA	Pliers, Slip-Joint Adjustable OAL 12"
Insulated Adjustable Wrenches	
MS7S-10-PTA	Wrench Adjustable OAL 11" *
MS7S-12-PTA	Wrench Adjustable OAL 12" *
MS7S-8-PTA	Wrench Adjustable OAL 8" *
MS7-10-PTA	Wrench, Adjustable OAL 10"
MS7-12-PTA	Wrench, Adjustable OAL 12"
MS7-15-PTA	Wrench, Adjustable OAL 15"
MS7-4-PTA	Wrench, Adjustable OAL 4"
MS7-6-PTA	Wrench, Adjustable OAL 6"
MS7-8-PTA	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"



MS16-1/2-PTA



MS21-PTA

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"



MS21-PTA

Insulated Ratchet

Push and release are unique features allowing the user to have the highest level of confidence in their tools. Reversing ratchet is accomplished by a 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

Insulated torque ratchet is reversible by simple turn of the knob. The push and release are unique features that allow users to work with the highest level of confidence in their tools. The mechanism has been developed to perform in exacting 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	
MS85PC-PTA	Ratchet Stubby 3/8" SqDr w/ Locking System
MS85P-PTA	Ratchet 3/8" SqDr w/ Locking System
MS65P-PTA	Ratchet 1/2" SqDr w/ Locking System

Insulated Torque Wrenches	
MS100N1VM-3/8-PTA	Torque Wrench 8-35 LBF.IN 3/8" Locking System
MS100NOVM-PTA	Torque Wrench 35-180 LBF.IN Sqd 3/8" - Locking System

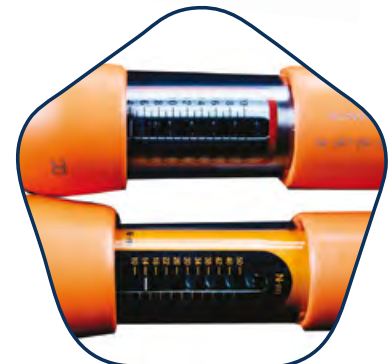


MS85P-PTA



MS100NOVM-PTA

MS100N1VM-3/8-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	
MS86L-1/2-PTA	Socket, 12 Pts Female Long 1/2" - 3/8" SqDr INS
MS86L-11/16-PTA	Socket, 12 Pts Female Long 11/16" - 3/8" SqDr INS
MS86L-13/16-PTA	Socket, 12 Pts Female Long 13/16" - 3/8" SqDr INS
MS86L-3/4-PTA	Socket, 12 Pts Female Long 3/4" - 3/8" SqDr INS
MS86L-3/8-PTA	Socket, 12 Pts Female Long 3/8" - 3/8" SqDr INS
MS86L-5/16-PTA	Socket, 12 Pts Female Long 5/16" - 3/8" SqDr INS
MS86L-5/8-PTA	Socket, 12 Pts Female Long 5/8" - 3/8" SqDr INS
MS86L-7/16-PTA	Socket, 12 Pts Female Long 7/16" - 3/8" SqDr INS
MS86L-7/8-PTA	Socket, 12 Pts Female Long 7/8" - 3/8" SqDr INS
MS86L-9/16-PTA	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	
MS87-1/2-PTA	Socket, Hexagonal Male 1/2" - 3/8" SqDr INS
MS87-1/4-PTA	Socket, Hexagonal Male 1/4" - 3/8" SqDr INS
MS87-1/8-PTA	Socket, Hexagonal Male 1/8" - 3/8" SqDr INS
MS87-3/16-PTA	Socket, Hexagonal Male 3/16" - 3/8" SqDr INS
MS87-3/8-PTA	Socket, Hexagonal Male 3/8" - 3/8" SqDr INS
MS87-5/16-PTA	Socket, Hexagonal Male 5/16" - 3/8" SqDr INS
MS87-5/32-PTA	Socket, Hexagonal Male 5/32" - 3/8" SqDr INS
MS87-7/16-PTA	Socket, Hexagonal Male 7/16" - 3/8" SqDr INS
MS87-7/32-PTA	Socket, Hexagonal Male 7/32" - 3/8" SqDr INS
MS87-9/16-PTA	Socket, Hexagonal Male 9/16" - 3/8" SqDr INS
MS87-9/64-PTA	Socket, Hexagonal Male 9/64" - 3/8" SqDr INS
MS87P-1/2-PTA	Socket, Hexagonal Male 1/2" - 3/8" SqDr INS- Long
MS87P-3/8-PTA	Socket, Hexagonal Male 3/8" - 3/8" SqDr INS- Long
MS87P-5/16-PTA	Socket, Hexagonal Male 5/16" - 3/8" SqDr INS- Long
MS87P-7/16-PTA	Socket, Hexagonal Male 7/16" - 3/8" SqDr INS- Long
MS87P-9/16-PTA	Socket, Hexagonal Male 9/16" - 3/8" SqDr INS- Long



*Additional Sizes Upon Request



IS80C-PTA

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	
IS77-PTA	Knife, Thick Blade 3" OAL 7" INS
IS78-PTA	Knife, Thin Blade OAL 7" INS
IS79-PTA	Knife, Short Curved Blade OAL 8" INS
IS80C-PTA	Knife, Ceramic Blade OAL 8" INS



IS77-PTA

Insulated Tool KITS

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

Insulated Tool KIT 9 Pieces

KIT-9	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 Pliers 7"
	MS4-9-PTA	Insulated Combination Pliers 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	

Insulated Tool RotoLine KIT 9 Pieces

KITRL1-9	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 Pliers 7"
	MS4-9-PTA	Insulated Combination Pliers 9"
	MS10-7-PTA	Insulated Half-Round Straight Long Nose Pliers 7"
	TRI12P	Bag 12 Pouches Tri-fold
MS43CR-PTA	1000V Insulated Wire Stripper / Crimper Pliers	

Insulated Tool Composite KIT 9 Pieces

KITC-9	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 Pliers Opening 22mm
	MC4CE-XL-PTA	Insulating Universal Pliers With Ceramic Cutters
	MC11CE-XL-PTA	Insulating Long-Nosed Straight Pliers with Ceramic Cutters - XL
	TRI12P	Bag 12 Pouches Tri-fold
MS43CR-PTA	1000V Insulated Wire Stripper / Crimper Pliers	

Insulated Nut Driver Tool KIT 9 Pieces

KIT-ND9	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	

Insulated Nut Driver Tool KIT 7 Pieces

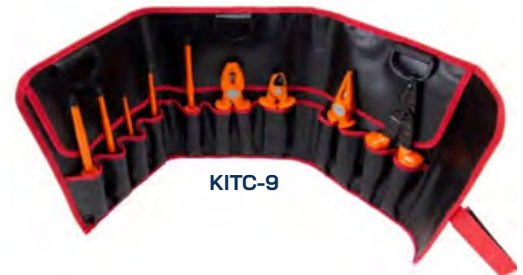
KIT-ND7	IS36-5/16-PTA	Nut Driver 5/16" - Shaft 6"
	IS36-11/32-PTA	Nut Driver 11/32" - Shaft 6"
	IS36-1/4-PTA	Nut Driver 1/4" - Shaft 6"
	IS36-3/16-PTA	Nut Driver 3/16" - Shaft 6"
	IS36-3/8-PTA	Nut Driver 3/8" - Shaft 6"
	IS36-7/16-PTA	Nut Driver 7/16" - Shaft 6"
	IS36-1/2-PTA	Nut Driver 1/2" - Shaft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



KIT-9



KITRL1-9



KITC-9



KIT-ND9



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 TRI9P	Rotoline, Nut Driver 5/8" - Shaft 6" 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 TRI9P	Rotoline, Nut Driver 11/32" - Shaft 6" 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 ZP14R	Screwdriver, Phillips #3 - 6" Slim Tip Shaft Zipper Pouch 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 TRI9P	Screwdriver, Phillips #2 - 5" Slim Tip Shaft 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 ZP14R	Screwdriver, Phillips #2 - 5" Slim Tip Shaft Zipper Pouch 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

KITRL1-SD9	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 Pouch Red 14"	

Insulated RotoLine 1 Screwdriver Tool KIT 7 Pieces

KITRL1-SD7	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

KITRL1-SD6	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 Pouch Red 14"	

Insulated Ratchet w/ Locking Extensions Tool KIT 12 pcs

KIT-RA12	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 Pouch Red 14"	

Insulated Ratchet w/ Locking Extensions Tool KIT 12 pcs

KIT-RA12LE	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 Pouch Red 14"	

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. Used to provide insulation for a technician during 1st category work or operating on manually operated 2nd or 3rd category separating instruments (switchgear...), both indoor and outdoor models are available.

Supports up to 300 lbs.

Technical Specifications

TT015M – One-Piece Moulded Plastic Stool With Anti-Slip Tray

- Fixed insulating legs in PVC, inclined in order to keep the platform away from contact with vertical wall
- All stools are supplied with anti-slip pads

TT018 – Plastic Stool With Anti-Slip Tray

- Insulating PVC legs with insulating skirts, inclined in order to keep the platform away from contact with vertical wall
- All stools are supplied with anti-slip pads
- Screw legs



TT015



TT018

Insulating Platform					
Part Number	Indoor use (kV)	Outdoor use (kV)	Dimensions (LxW)	Height under platform	Weight (lbs)
TT015M24KV-PTA	24 kV	4 kV	20" x 20"	5.90"	7.94
TT015M4KV-OUT-PTA	24 kV	4 kV	20" x 20"	5.90"	7.94
TT015M45KV-PTA	45 kV	10 kV	20" x 20"	9.33"	8.6
TT015M10KV-OUT-PTA	45 kV	10 kV	20" x 20"	9.33"	8.6
TT018 24KV	24 kV	24 kV	20" x 20"	9.64"	9.04
TT018 45KV	45 kV	45 kV	20" x 20"	14.25"	10.14
TT018 63KV	63 kV	63 kV	20" x 20"	16.26"	10.58

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

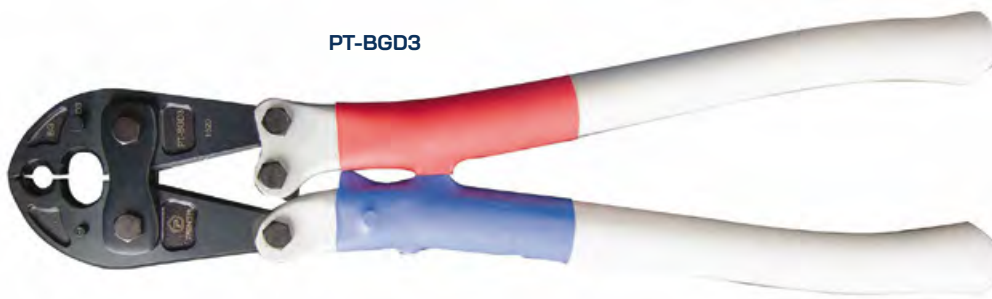
The mechanical crimping tool is designed for crimping a wide range of overhead service entrance connections, overhead splices, and overhead taps. Easy to use handles provide solid grip, good leverage and greater durability. A low friction impregnated bushing at pivot joint assures an over-center cam 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

PT-OD3	O Nose Die & D3 Seat 9,000 lbs 25 3/4" 7 lbs., Accepts "W" Style Dies
PT-BGD3	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

XPC60T-S	60 Tons Single Action
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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).

[KTETEPCTCR-PTA] Hook pole head with integrated suspension hook and tube screw

Contains Items	Description	Qty
1	Round tube hook pole head with suspension hook	1
2	Spacer for PCT head	1
3	Socket for hand guard and PCT rod guide	1
4	M4x20 steel zinc plated hollow torx flange screw	1

[VTPCT-PTA] Screw for hook pole head

2	Spacer for PCT head	1
3	Socket for hand guard and PCT rod guide	1
4	M4x20 steel zinc plated hollow torx flange screw	1

[CSTUPCT-PTA] Suspension hook to be inserted into the hook pole head

5	Suspension hook to be inserted into the hook pole head	1
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[KJCPCT***] Hook ring kit

6	PCT hook ferrule	1
7	Retractable hook for pct	1
8	Elastic pin D3X12 zinc-plated steel	1
9	PCT ferrule with handle	1
10	Jonc epoxy dia. 10	1

[KGJPCT-PTA] Rod guide for hook pole with tube screw

11	Socket for hand guard and PCT rod guide	1
12	Open rod guide for hook pole	1
13	M4x10 steel zinc plated hollow torx head screw	1

[VGPCT9-PTA] Guide screw and hand guard for clampstick

11	Socket for hand guard and PCT rod guide	1
13	M4x10 steel zinc plated hollow torx head screw	1

[KGMPT-PTA] Hand guard kit for PCT pole

14	Socket for hand guard and PCT rod guide	1
15	Open rod guide for hook pole	1
16	M4x10 steel zinc plated hollow torx head screw	1

[KCREMPCT-PTA] Lock bar and safety stop with screw for PCT

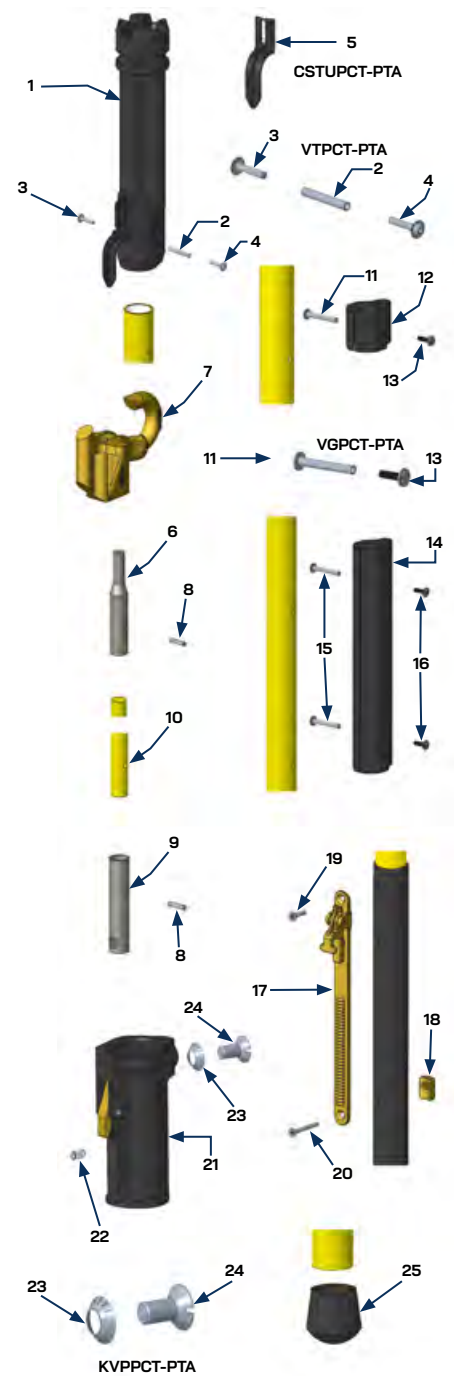
17	Handle for assembled plastic hook pole	1
18	Compression spring	1
19	D8 conical fan washer	1
20	Hollow torx countersunk screw M8x16 steel zinc plated	1

[KPOIPCT-PTA] Clampstick handle with spring and screw

Contains Items	Description	Qty
21	Mounted rack for PCT	1
22	Handle stop for PCT	1
23	Hollow hexagon countersunk screw M5x20 zinc-plated steel	1
24	Hollow hexagon countersunk screw M5x45 zinc-plated steel	1

[KVPPCT-PTA] Handle screw for clampstick

23	D8 conical fan washer	1
24	Hollow torx countersunk screw M8x16 steel zinc plated	1



[BE31-PTA] O.D. Rubber crutch tip for insulating Sticks

Contains item	Description	Qty
25	Rubber crutch tip diameter 31mm for insulating Sticks	1

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).

[KTETEPCTCR] Hook pole head with integrated suspension hook and tube screw

Contains Items	Description	Qty
1	Round tube hook pole head with suspension hook	1
2	Spacer for PCT head	1
3	Socket for hand guard and PCT rod guide	1
4	M4x20 steel zinc plated hollow torx flange screw	1

[VTPCT] Screw for hook pole head

2	Spacer for PCT head	1
3	Socket for hand guard and PCT rod guide	1
4	M4x20 steel zinc plated hollow torx flange screw	1

[CSTUPCT] Suspension hook to be inserted into the hook pole head

5	Suspension hook to be inserted into the hook pole head	1
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[KJCPCT***] Hook ring kit

6	PCT hook ferrule	1
7	Retractable hook for pct	1
8	Elastic pin D3X12 zinc-plated steel	1
9	PCT ferrule with handle	1
10	Jonc epoxy dia. 10	1

[KGJPCT] Rod guide for hook pole with tube screw

11	Socket for hand guard and PCT rod guide	1
12	Open rod guide for hook pole	1
13	M4x10 steel zinc plated hollow torx head screw	1

[VGPCT] Guide screw and hand guard for clampstick

11	Socket for hand guard and PCT rod guide	1
13	M4x10 steel zinc plated hollow torx head screw	1

[KGMPCT] Hand guard kit for PCT pole

14	Socket for hand guard and PCT rod guide	1
15	Open rod guide for hook pole	1
16	M4x10 steel zinc plated hollow torx head screw	1

[KCREMPCT] Lock bar and safety stop with screw for PCT

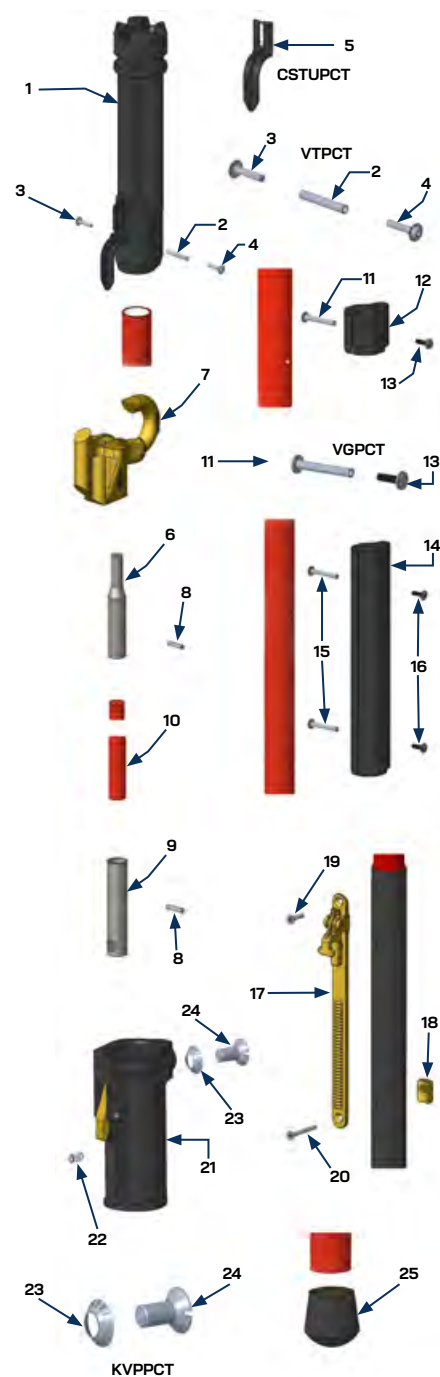
17	Handle for assembled plastic hook pole	1
18	Compression spring	1
19	D8 conical fan washer	1
20	Hollow torx countersunk screw M8x16 steel zinc plated	1

[KPOIPCT] Clampstick handle with spring and screw

Contains Items	Description	Qty
21	Mounted rack for PCT	1
22	Handle stop for PCT	1
23	Hollow hexagon countersunk screw M5x20 zinc-plated steel	1
24	Hollow hexagon countersunk screw M5x45 zinc-plated steel	1

[KVPPCT] Handle screw for clampstick

23	D8 conical fan washer	1
24	Hollow torx countersunk screw M8x16 steel zinc plated	1



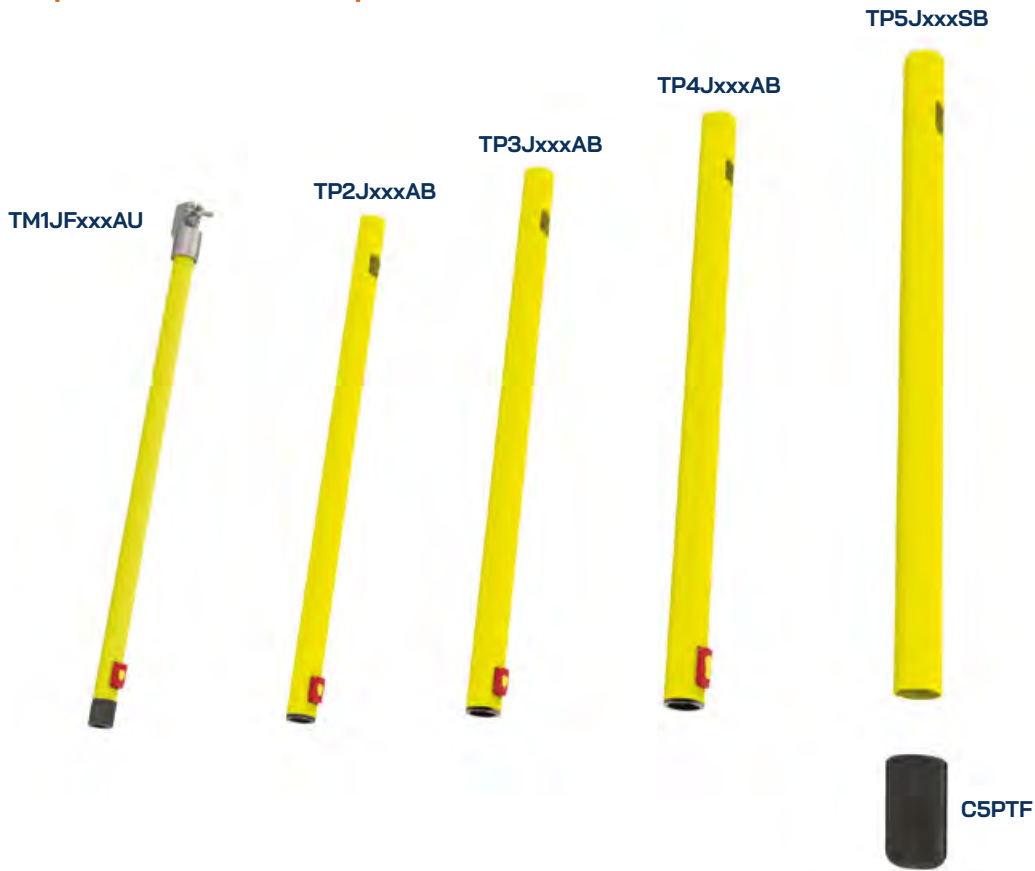
[BE31] O.D. Rubber crutch tip for insulating Sticks

Contains Item	Description	Qty
25	Rubber crutch tip diameter 31mm for insulating Sticks	1

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

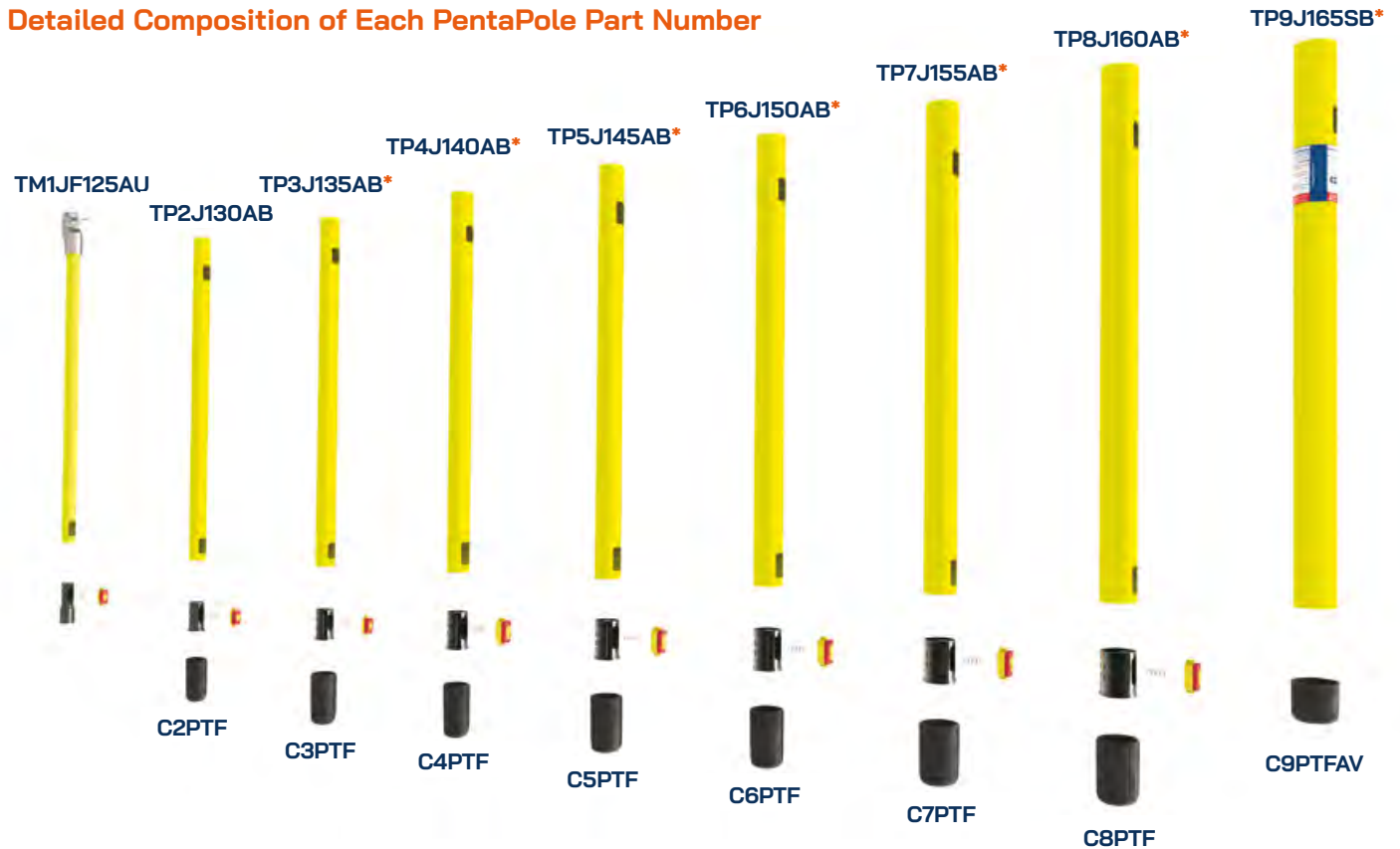
Detailed Composition of Each Compact PentaPole Part Number



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*	TP4J140AB*	TP5J145AB*	TP6J150AB*	TP7J155AB*	TP8J160AB*	TP9J165SB*	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										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



NOTES:



A series of horizontal lines for taking notes, overlaid on a faded background image of a person wearing a white shirt and safety glasses, using a Penta safety tool on a vehicle's wheel.



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