

SAFETY, HEALTH & ENVIRONMENT



**PROTECTING LIVES
EVERYDAY**





YOUR SAFETY IS OUR #1 CONCERN

A leader in personal safety for professional electricians, IDEAL Safety, Health and Environment products comply with ASTM requirements and OSHA regulations. Every day we are protecting lives with the products we provide, from 1000 volt insulated tools to Lockout/Tagout equipment, Thermal Imagers, Clamp Meters, S-Class™ Fish Tapes and specialty connectors and more.

IDEAL continuously works on methods and equipment that provide the maximum in performance to assure your safety and health while delivering better environment solutions that leave a small footprint.

Training...essential in keeping you safe whatever the job

The proper use of materials and tools can mean the difference to your personal safety and health. IDEAL provides state-of-the-art training to give you the best methods and utilization of this equipment through hands-on demonstrations, peer discussions and on-site applications.

Training consists of several proven methods of:

- Lockout/Tagout Safety and Procedures
- Arc Flash Safety and 1000 volt Insulated Tools
- Test and Measurement Equipment and procedures

For more details on available training programs, please contact IDEAL customer service or your local IDEAL resource representative.





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Basic Lockout/Tagout Kit



- A great selection of the most popular lockout/tagout devices
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Basic Lockout/Tagout Kit		44-970
Kit 44-970 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts	2	44-810
Universal 277V Breaker Lockout/Single Pole	1	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
3/4 in. Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	5	44-849
Universal Multi-Pole Breaker Lockout	1	44-783
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Starter Lockout/Tagout Kit



- A starter selection of the lockout/tagout devices every electrician/maintenance person needs
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Starter Lockout/Tagout Kit		44-973
Kit 44-973 Includes:	Qty.	Cat. No.
Universal 277V Breaker/Single-Pole Lockout	1	44-809
Universal Multi-Pole Lockout	1	44-783
3/4 in. Shackle Red Padlock	1	44-906
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags – Do Not Operate (striped)	2	44-849
110V Plug Lockout	1	44-818
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Personal Lockout Pouch Kit

- Easy to carry, zippered pouch holds a worker's personal padlocks and other small devices



Description		Cat. No.
Personal Lockout Pouch Kit		44-969
Kit 44-969 Includes:	Qty.	Cat. No.
1 in. Safety Lockout Hasp	1	44-800
Lockout Tags	12	44-833
Red Safety Padlocks – Keyed Alike	3	44-916*
Personal Lockout Pouch	1	—

*Keyed alike and master keyed padlocks can be special ordered by contacting IDEAL Customer Service.

Standard Lockout/Tagout Kit



- Excellent selection of lockout/tagout devices, tags and locks for maintenance workers or contractors
- Small nylon zipper pouch features belt loops and d-rings for easy attachment to belts, tool pouches, tool carts and more

Description		Cat. No.
Standard Lockout/Tagout Kit		44-971
Kit 44-971 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts	3	44-810
Universal 277V Breaker Lockouts/Single Pole	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
2 in. Shackle Red Padlocks	2	44-907
1 in. Safety Lockout Hasps	2	44-800
Lockout Tags – Do Not Operate	5	44-848
Lockout Tags – Do Not Operate (striped)	5	44-849
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockouts	2	44-783
Zipper Pouch	1	IA-3240

Quantities listed in kit description are for individual pieces, not carded packages.

Plant Facility Lockout/Tagout Kit



- Ideal for plant facility personnel to keep all lockout/tagout devices in one convenient place
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Plant Facility Lockout/Tagout Kit		44-972
Kit 44-972 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts	5	44-810
Universal 277V Breaker/Single Pole Lockouts	3	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockouts	2	44-789
110V Plug Lockout	1	44-818
1 in. Safety Lockout Hasps	3	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockouts	3	44-783
Tool Box*	1	IA-3241

Quantities listed in kit description are for individual pieces, not carded packages.

*Tool box color may vary.

Industrial Lockout/ Tagout Kit



- An industrial selection of lockout/tagout devices
- Polypropylene plastic tool box resists oil and chemicals

Description		Cat. No.
Industrial Lockout/Tagout Kit		44-974
Kit 44-974 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts	3	44-810
Universal 277V Breaker/Single Pole Lockouts	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-818
Ball Valve Lockout	1	44-820
1 in. Safety Lockout Hasps	2	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Red Lockout Padlocks	4	44-916
Universal Multi-Pole Breaker Lockouts	2	44-783
Tool Box*	1	IA-3241

Quantities listed in kit description are for individual pieces, not carded packages.

*Tool Box color may vary.

Job Site Lockout/ Tagout Kit



- Perfect kit for an individual worker; keyed-alike padlocks for added worker convenience are available upon request
- Excellent selection of lockout/tagout devices, tags and keyed-alike padlocks for most applications

Description		Cat. No.
Job Site Lockout/Tagout Kit		44-979
Kit 44-979 Includes:	Qty.	Cat. No.
Circuit Breaker Lockouts - tall and wide toggles	2	44-956
Circuit Breaker Lockouts - standard single and double toggles	3	44-957
Circuit Breaker Lockout Padlock	1	—
Red Lockout Padlocks	3	44-916**
1 in. Safety Lockout Hasp	1	44-800
Red Labeled Lockout	1	44-791*
Universal Wall Switch Lockout	1	44-772
Lockout Tags - Do Not Operate (striped)	12	44-833*
Tool Box	1	IA-3241*

*Masterlock equivalent.

**Reference part number is keyed-different, keyed-alike and master-keyed products can be special ordered by contacting IDEAL Customer Service.

Group Lock Box

- Helps ensure maximum security for complex work team situations
- Allows up to 13 individuals to personally lock the closed box
- Heavy-duty steel construction resists unauthorized entry and job-site abuse
- Compact 8-3/4 in. x 3-1/2 in. x 6 in. design



Description	Cat. No.
Group Lock Box	44-804

Lock Stations

- Resilient polycarbonate material provides twice the heat resistance and quadruple the impact strength of typical stations
- Lockable cover prevents loss of valuable safety products and innovative hinge holds cover open for easy product selection

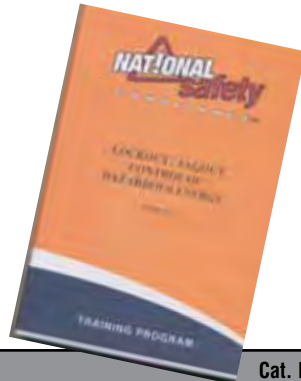


Description	Cat. No.
Four-Lock Station Kit includes Four-Lock Station Board (44-777), four red Safety Padlocks (44-916), 12 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-778*
Ten-Lock Station Kit includes Ten-Lock Station Board (44-805), ten red Safety Padlocks (44-916), 24 Heavy-Duty Lockout Tags and two 1 in. Safety Lockout Hasps (44-800)	44-806

*Not shown.

Lockout/Tagout Training Programs and Compliance Manuals

- Kinds of energy lockout/tagout can control
- Lockout/tagout basics
- OSHA's LO/TO Standard
- The six steps to lockout/tagout
- Removing lockout/tagout devices after a job is complete
- Length: 15:00 minutes



Description	Cat. No.
Lockout/Tagout Training DVD	44-941

Please contact your IDEAL Sales Representative for no cost, OSHA-compliant Lockout/Tagout Training!

Industrial Lockout/Tagout Station



- Large Lockout/Tagout Station can be wall mounted or easily transported
- All metal, lockable cabinets come with two adjustable shelves (extra shelves available)
- Lockout safety tips are conveniently located inside of door for frequent reminders of proper lockout procedures

Description		Cat. No.
Industrial Lockout/Tagout Station – 16 in. H x 14 in. W x 6 in. D		44-975
Kit 44-975 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts	2	44-810
Universal Single-Pole Breaker Lockouts	2	44-809
Cleat for Universal Single-Pole Lockouts	2	44-785
Universal Multi-Pole Breaker Lockouts	2	44-783
480/600V Breaker Lockout	1	44-807
Cleat for 480/600V Breaker Lockout	1	44-786
Wall Switch Lockout	1	44-789
1 in. Safety Lockout Hasps	3	44-800
Red Safety Padlocks	4	44-916
100V Small Plug Lockout	1	44-818
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate	10	44-849
Gate Valve Lockout - 1 in. to 2-1/2 in.	1	44-824
Gate Valve Lockout - 2-1/2 in. to 5 in.	1	44-825
Ball Valve Lockout	1	44-820
Pneumatic Lockout	1	44-774
Optional	Qty.	Cat. No.
Extra Shelf	1	IA-4990

Multi-Pole Breaker Lockout

- Works with most major multi-pole breakers with tie-bar type switches including GE, ITE Sylvania, Challenger, Bryant, Westinghouse, Square D (2/3 poles) and General Switch Co.
- Easy to install – thumbscrew secures and locks tie bar in place; no cable ties or tools required
- Please see breaker guide for your application (pg. 13)



Description	Qty.	Cat. No.
Multi-Pole Breaker Lockout	1	44-783

Oversized Circuit Breaker Lockout System

- Unique Lockout system for oversized 480/600V Circuit Breakers
- System can be permanently installed into an electrical panel putting all lockout items at the point of need
- Easy installation of adhesive mounting rails – no tools required
- Pegs in mounting rails mate with holes in locking arms for security of arm when lock is in place
- Red arms lock off, green arms lock on



Description	Qty.	Cat. No.
Oversized Circuit Breaker System – 480-600 Volt	1	44-822

480/600V Single/Multi-Pole Breaker Lockouts

- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- Blade design provides tighter grip with less torque on thumbscrew
- Please see breaker guide for your application (pg. 13)

Description	Qty.	Cat. No.
480/600V Single/Multi-Pole Lockout	1	44-807
480/600V Single/Multi-Pole Lockouts	50	44-1807
Cleat for 480/600V Single/Multi-Pole Lockout	1	44-786

Large Breaker Lockout

- Designed to lockout large 480/600V breaker switches up to 2-1/2 in. wide and 7/8 in. thick
- Easy to install – no tools required
- Please see breaker guide for your application (pg. 13)



Description	Qty.	Cat. No.
Large Breaker Lockout	1	44-823

Electric Plug Lockout

- Slides over cord prongs and locks in place to prevent cord from being plugged into an outlet
- Cannot be removed without key
- Works on any 2- or 3-prong plug





Description	Cat. No.
Electric Plug Lockout	44-782

Universal 120/277V Breaker Lockouts

- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew
- Please see breaker guide for your application (pg. 13)



Description	Qty.	Cat. No.
Single-Breaker Lockouts 	3	44-809
Cleat for Single-Pole Breaker Lockouts 	3	44-785
Single-Pole Breaker Lockouts	50	44-1809

Circuit Breaker Lockouts

- Attaches securely to breaker with simple thumb turn and clamping handle
- 44-956 is designed for breakers with wide or tall toggles
- 44-957 fits standard height and tie-bar toggles
- The narrow profile permits side-by-side breaker lockout



Description	Cat. No.
Circuit Breaker Lockout, wide & tall toggles 	44-956
Circuit Breaker Lockout, standard toggles 	44-957

Hinged Single-Pole Breaker Lockouts

- Hinged single-pole lockout with locking post design, locks lever in off position to isolate and prevent breaker use
- Ideal for applications where panel closure is preferred
- Please see breaker guide for your application (pg. 13)

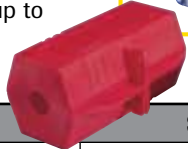


Description	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockouts 	3	44-810
Hinged Single-Pole Breaker Lockouts	100	44-1810

Plug Lockouts

- Accommodates a variety of electrical plug and cord sizes to prevent accidental connection or disconnection
- Durable plastic body resists wear, chemicals and job-site abuse
- Accommodates cable ties or padlocks (with up to 3/8 in. shackles)



Description	Size	Cat. No.
Plug Lockouts - 100V 	2 in. x 2 in. x 3-1/2 in.	44-818
Plug Lockouts - 220/550V	3-1/4 in. x 3-1/4 in. x 7 in.	44-819

Plug Lockouts

- Plug lockout, 44-792 works with high and low voltage plugs up to 3 in. in diameter and 5-1/2 in. in length, up to 1-1/4 in. cord diameter
- Plug lockout, 44-793 works with 110V/220V plugs up to 1-3/4 in. in diameter and 2-1/2 in. in length, up to a 1/2 in. cord diameter



Description	Cat. No.
Plug Lockout - up to 3 in. diameter	44-792
Plug Lockout - 110V/220V	44-793

Circuit Breaker Lockout System

- Covers most 120V - 277V breakers!
- Works on wide range of breakers, including single- and multi-pole configurations
- Makes use of unique lock rail system, providing the following benefits:
 - Allows panel door to be closed even when lockouts are in place
 - Accommodates multiple locks, facilitating group lockout activity without hasps
 - Keeps weight off the breakers, protecting delicate electrical components from damage
 - Positions locks and tags outside the panel, making sure lockout activity is clearly visible to anyone in the area

Technical Information

- Lockout devices constructed of high-impact Isoplast polymers
- Cables are 2 ft. in length
- Lock rails made of durable isoplast polymers with acrylic adhesive backing

Snap-on

For use on Square D NQO and other breakers that have a hole in the switch tongue. Just align pins with hole and snap closed. Pins prevent switch from being thrown.



Clamp-on

For use on breakers that do not have a hole in the switch tongue, including multiple breakers with tie bars. Turn thumb-screw to clamp lockout securely onto switch, then snap the cover closed to prevent thumbwheel from being loosened.



"No Shackle" Locks

Especially useful when lockout devices will be kept at the panel in accordance with NEC regulations.



How the System Works



1. Peel liner off bottom of the lock rail, exposing super-bond adhesive. Permanently affix to any location on the panel. No drilling required.



2. Attach the lockout device to the breaker and snap into locked position.



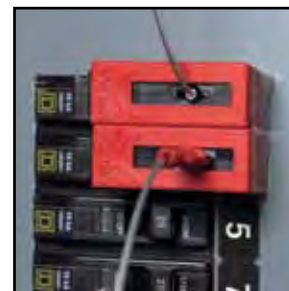
3. Pass plastic key through lock rail and attach lock, preventing key from sliding down cable and opening lockout device.



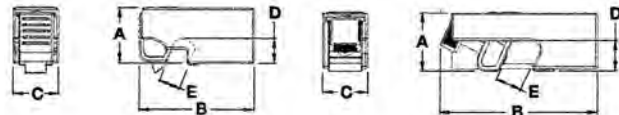
4. For group lockouts, run key through multiple loops in lock rail and apply locks. No hasps required!



5. Lockout device is unlocked by inserting and turning the red plastic key.



Perfect when locking out adjacent breaker lockouts.



Description	Outer Dimensions (In.)			Switch Clearance (In.)	
	A	B	C	D	E
Snap-on	0.90	1.88	0.74	0.40	0.35
Clamp-on	0.95	2.56	0.74	0.35	0.42

Description	Qty.	Cat. No.
Snap-on lockout for Square D NQO and other breakers with a hole in the switch tongue	1	44-768
Clamp-on lockout for breakers without hole in the switch tongue, including multi-pole breakers with tie bars	1	44-764
4 in. Lock Rail with seven lock loops	1	44-769
No shackle lock	1	444.001

Please see breaker guide for your application (pg. 13)

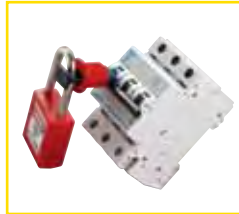
Miniature Circuit Breaker Lockouts for European-Style Breakers

- Easy to install push button action – requires no tools
- Lightweight locks are required
- See user guide below for the style that fits your application

Pins Out – #44-779



Pins In – #44-780



Pins Out Wide – #44-784



Tie Bar – #44-787




Manufacturer	Model	Breaker Number of Poles	IDEAL Lockout Device
ABB	F374	1	44-779
	S222	1	44-779
	S251, S261, S263	1	44-779
	S272, S253	1	44-779
	S253	3	44-779
AEG	E82S	2	44-779
Allen-Bradley	1492-CB1, 2, 3	1,2,3	44-779
Buschmat	S46	1	44-779
Clipsal	4CB116	1	44-779
	4CB320	3	44-779
Cutler-Hammer	WME	1-3	44-779
	WMF	1-3	44-779
	WMH	1-4	44-779
	WMM	1-4	44-779
	WMN	1-4	44-779
E-T-A	911225	1	44-780
	911220G	2	44-779
FAZ	C16	1	44-779
	C16	4	44-779
General Electric	1 Pole	1	44-780
	2 Pole	2	44-780
	3 Pole	3	44-780
	SGD	2-3	44-779
	SGH1	3	44-779
	SGH4	2-3	44-779
	SGH6	2-3	44-779
	SGL1	2-3	44-779
	SGL4	2-3	44-779
	SGL6	2-3	44-779
General Electric	SGP4	2-3	44-779
	SGP5	2-3	44-779
	V	1-3	44-780
	V-Line	1-4	44-780
GE Vynckier	Series G	1	44-780
	Series E	3	44-780
	Series G	3	44-780
	Series E	4	44-780
GE Vynckier 16A	Series E	2	44-780
GE Vynckier C16, 16A	Series E	1	44-780
Hager	MW216A	2	44-779
	453717	3	44-779

Manufacturer	Model	Breaker Number of Poles	IDEAL Lockout Device
Hager	MW620A	4	44-779
Kapp	LS68	1	44-780
Legrand	01908	1	44-779
	01935	2	44-787
	04302	2	44-780
	01980	3	44-787
	06469	3	44-780
Legrand	01980	4	44-787
	SD62	1	44-809
Merlin Gerin	C32N	1-4	44-779
	C45AD	3	44-779
	C60	1-4	44-779
	C60H	1-4	44-779
	C60L	2-3	44-779
	C60N	1-4	44-779
	C80A	3	44-784 or 44-787
	NC100N	1-4	44-784
Merlin Gerin +B83	B100A	2	44-784 or 44-787
Proteus	C16	1	44-779
	C6	1,3	44-779
	BSEN60947-3	2	44-783
Siemens 17U	AC22 BS5419	2	44-783
	5SQ11	1	44-784
	5SQ12	2	44-787
	5SQ13	3	44-787
Siemens 17U	5SQ16	4	44-787
	5SX21	1	44-784
Siemens B32	5SX21	1	44-784
Siemens Big Sgl Throw	3VF3	3	44-809
Siemens C10	5SX1	1	44-784
Siemens C32	5SX1-2	2	44-787
Siemens C70	5SX13	3	44-787
Siemens L20A	5SN2-2	2	44-787
Square D	Q1B	2-3	44-784
	Q1L	2-3	44-784
	Q2	2-3	44-784
	Q2H	2-3	44-784
	Q2L	2-3	44-784
	Q2MT	2-3	44-784
	Q4	2-3	44-784
Q4L	2-3	44-784	
Sursum	EA53	3	44-780
Wylex	WRS40/2	2	44-779

Wall Switch Lockouts

- Our patent pending universal Wall Switch Lockout locks out both toggle and wall switches
- Universal design assures switch is locked on or off. Hinges open for unobstructed normal switch operation
- Standard wall switch lockout fits most wall-mounted single or three-way electrical switches



Description	Qty.	Cat. No.
Universal Wall Switch 	1	44-772
Standard Wall Switch (not shown)	1	44-789

Adjustable Cable Lockout

- Infinitely adjustable safety hasp and cable
- Ideal for multiple circuit breaker panels and side-by-side gate valve lockouts
- Feed the cable end through the points to be locked out, then back through the lockout body. Cinch it tight to remove any slack with the patented locking feature.
- Tough, flexible multi-stranded 6 ft. 1/4 in. dia. steel cable is insulated with a clear vinyl coating
- Tough, lightweight, dielectric thermoplastic body withstands chemicals; performs effectively in extreme conditions
- Up to four workers can apply their personal safety locks
- Complete with high-visibility, re-usable, write-on safety labels (English, French & Spanish). Identify the responsible person, then erase for the next job.



Description	Cat. No.
Adjustable Cable Lockout 	44-808

Gate Valve Lockouts

- Unique patent pending rotating design allows for easier installation in confined space applications
- Each size rotates into itself and nests within the next larger size to save space in storage
- Up to four workers can apply their personal safety locks
- Complete with high-visibility permanent safety labels (English, French & Spanish) that can be written on to identify the responsible person, then erased for the next job
- Tough, lightweight, dielectric thermoplastic bodies withstand chemicals and perform effectively in extreme conditions, temperature range: -50°F (-46°C) to +350°F (177°C)



Valve Size	Qty.	Cat. No.
1 in. to 3 in. 	1	44-824
2 in. to 5 in.	1	44-825
Set of five sizes (1 in. to 13 in.)	1	44-817

Cable Lockout

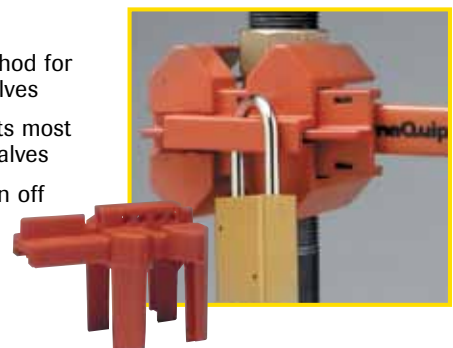
- 44-829 Unique hasp lockout device accepts up to six 9/32 in. padlocks and comes with a 6 ft. plastic-coated steel cable



Description	Cat. No.
Cable Lockout, 6 ft. cable	44-829

Ball Valve Lockout Devices

- Best available method for locking out ball valves
- Patented design fits most major brand ball valves
- Designed to lock in off position only
- Complies with OSHA lockout standard



Valve Size	Max. Shackle Length	Material	Cat. No.
1/2 to 1-1/4 in.	—	Polypropylene	44-846
1-1/4 to 3	—	Polypropylene	44-847
1/4 to 1 (not shown)	9/32 in.	Nylon	44-820
1-1/4 to 3 (not shown)	9/32 in.	Heavy Steel	44-821

Steel Padlocks

- Rustproofed, steel case with nickel-plated shackle withstands abuse and environmental hazards
- Includes two keys
- 1-1/2 in. wide lock with 9/32 in. shackle diameter
- Keyed-alike and Master-Keyed locks available by special order



Bumper Color	3/4 In. Shackle Clearance Cat. No.	2 In. Shackle Clearance Cat. No.
Blue	44-900	44-901
Red	44-906	44-907

Lock Labels

- Easy identification of employees' locks
- Write-on, vinyl labels with peel-off adhesive backing
- Polyester over laminate protects label



Description	Qty.	Cat. No.
Lock Labels	8 labels	44-898

Safety Lockout Padlocks w/Key Retention




- Dedicated safety lockout device reduces confusion with other locks
- Complies with OSHA's "1-key, 1-lock"
- Non-conductive, lightweight body
- Key retention ensures keys do not get lost while not in use and that padlocks are not left untouched
- 1-1/2 in. shackle clearance
- 1-1/2 in. wide lock with 1/4 in. shackle
- Four colors for easy identification
- Keyed-alike, Master-Keyed, 2nd key, additional colors and engraving available by special order

Bumper Color	Cat. No.
Blue	44-912
Black	44-914
Red	44-916
Yellow	44-918



Flash Protection Labels and Signs

National Electric Code 110.16 Flash Protection: *Switchboards, panel boards, industrial control panels and motor control centers*, in other than dwelling occupancies, that are likely to require examination, adjustment, servicing or maintenance while energized, shall be field marked to warn qualified persons of potential electric arc flash hazards. The marking shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing or maintenance of the equipment.

Description	Type	Size	Qty./Bag	Cat. No.
NEC Arc Flash, Warning 	Self-Sticking Polyester	3-1/2 in. x 5 in.	5	44-892
			100	44-892BK
NEC Arc Flash, Danger 	Self-Sticking Polyester	4 in. x 6 in.	5	44-893
			5	44-894
NEC Arc Flash, Warning 	Self-Sticking Polyester	7 in. x 10 in.	1	44-896

Python™ Adjustable Locking Cable

Python™ Adjustable Locking Cable secures anything within its grasp. The only locking cable that is right length for your application. This patented product holds flexible steel cable tight at any position



- Infinite Locking Positions – Patented lock holds cable tight from 1 ft. (30cm) to 6 ft. (1.8m)
- Application Flexibility – Interchangeable cables
- Keyed Alike Convenience – Rekeyable cylinder
- Cut Resistant – 3/8 in. (10mm), 100% steel braided cable
- Weather Tough – Rust resistant aluminum lock body
- Scratch Resistant – Vinyl cable sleeve and lock body bumper

Other Applications: Bikes, lawn furniture, lawn mowers, job sites, canoes, boats, skis, snowboards, generators, pickup truck cargo, spare tire locks and much more

Description	Cat. No.
Master Lock Python™ Kit with 6 ft. Cable-keyed different	44-990
Master Lock Python™ Kit with 6 ft. Cable-keyed alike*	44-991
12 ft. (3.7m) x 3/8 in. (10mm) Cable for Python™ Lock*	44-992

*Special order thru Customer Service.

Voltage & Conduit Markers

- Identify junction boxes, switches, circuit breakers, raceways, pipe and fuse boxes
- Non-conductive for user safety
- High-adhesion properties with easy removability
- Vinyl-impregnated cloth construction for long-lasting durability
- Resist abrasion, moisture, dirt and oil
- Non-smear, black legend on bright orange background for high visibility



Large:
2-1/4 in. x 9 in. each w/1-3/4 in. type



Medium:
1-1/8 in. x 4-1/2 in. each w/3/4 in. type



Small:
2-1/4 in. x 1/2 in. each w/5/16 in. type

Legend	Large Cat. No. 1/card	Medium Cat. No. 4/card	Small Cat. No. 18/card
120/280V	44-295	44-296	—
277/480V	44-298	44-299	—
120V	—	44-353	—
208V	—	44-355	—
240V	—	44-358	—
277V	—	—	44-410
480V	44-314	44-364	—
DANGER	44-289	—	—
HIGH VOLTAGE	44-292	—	—

Specifications:

Temperature Range: -40°F to 180°F (-40°C to 82°C)
Adhesion: 45 oz./in. width ultimate



Bilingual Lockout Tags

- Spanish/English tags provide extra safety and information in bilingual situations
- High-visibility lettering
- Laminated plastic tags with non-fade legends resist corrosive and harsh environmental conditions
- Write-on tag with 7/8 in. grommet can be padlocked to device to help prevent unauthorized removal

Legend	Qty.	Cat. No.
Do Not Operate (striped) 	5	44-841



Heavy-Duty Lockout Tags

- High-visibility lettering
- Laminated plastic tags have non-fade legends, resist corrosive and harsh environmental conditions grommet
- Vinyl tags are silk screened with a 7/8 in. metal grommet; fastener included
- Exceeds OSHA's 50-lb. pullout requirement
- Matte finish for easy writing surface

Legend	Type	Qty.	Cat. No.
Do Not Operate 	Heavy-Duty Laminated	5/card	44-830
	Heavy-Duty Laminated	100/box	44-1830
	Economy Vinyl	25/bag	44-848
Do Not Operate - Electricians at Work	Heavy-Duty Laminated	5/card	44-832
	Economy Vinyl	25/bag	44-843
Do Not Operate - (red striped background) 	Heavy-Duty Laminated	5/card	44-833
	Heavy-Duty Laminated	100/box	44-1833
	Economy Vinyl	25/bag	44-849

Lockout Signs

- Resistant to both chemicals and abrasion – protected graphics for indoor and outdoor use

Legend	Material	Size (In.)	Cat. No.
OSHA Regulation 36 in. clearance	Self-sticking polyester	3-1/2 x 10	44-877
OSHA Regulation (Bilingual) 36 in. clearance 	Self-sticking polyester	7 x 10	44-878
Danger - Breakers Locked Out 	Magnetic	5 x 7	44-890

Safety Signs

- Resistant to both chemicals & abrasion – protected graphics for indoor & outdoor use



Legend	Material	Size (In.)	Cat. No.
Danger – High Voltage	Fiberglass	10 x 14	44-862
Danger – High Voltage	Self-Sticking Polyester	7 x 10	44-863
Danger – High Voltage – Keep Out	Fiberglass	10 x 14	44-880
Danger – High Voltage – Keep Out	Self-Sticking Polyester	7 x 10	44-881
Danger – High Voltage – Spanish	Self-Sticking Polyester	7 x 10	44-865

Safety Lockout Hasps

- Allow up to six workers to lock out a single energy source
- Rustproofed, plated and vinyl-coated
- Labeled hasps feature anodized aluminum alloy construction for long-term durability
- Permanent “Do Not Operate” labels accept pens, pencils and permanent markers

Safety Lockout Hasps

Jaw Diameter	Qty.	Cat. No.
1 in.	3	44-800
1-1/2 in.	2	44-801



Labeled Safety Lockout Hasps

Legend	Color	Qty.	Cat. No.
Do Not Operate	Blue	1	44-790
	Red	1	44-791
	Red	50	44-1791



Non-Detectable Underground Tapes

- For protection, location and identification of underground utility installations
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink



42-103

42-152

Property	Method	Value	
Thickness	ASTMD2103	4.0 Mils	
Elongation	ASTMD882-75B	500%	
Composition	IDEAL Specs.	LDPE	
Tensile Strength	ASTMD882	2,750 PSI	
Recommended Burial Depth			
3 in. Tape – 4 in. to 6 in.			
6 in. Tape – less than 12 in.			
Legend	Color	Size	Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-101
	Yellow	3 in. x 1,000 ft.	42-102
Caution Buried Telephone Line Below	Orange	3 in. x 1,000 ft.	42-103
Caution Buried Fiber Optic Line Below	Orange	3 in x 1,000 ft.	42-104
Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-151
	Yellow	6 in. x 1,000 ft.	42-152

Detectable Underground Tapes

- Solid aluminum foil core tapes for protection, location and identification of underground utility installations
- Meets or exceeds industry standards including the American Public Works Association (APWA) color code
- Formulated to resist degradation from acid and alkali found in soils
- Lead-free pigments and organic lead-free ink

42-251

Property	Method	Value	
Thickness	ASTMD2103	5.0 Mils	
Elongation	ASTMD882-75B	80%	
Composition	IDEAL Specs.	Bottom Layer PE Top layer PET Foil industry standard	
Tensile Strength	ASTMD882	35 lbs./in. (15,000 PSI)	
Legend	Color	Size	Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-201
		6 in. x 1,000 ft.	42-251
Caution Buried Fiber Optic Line Below	Orange	6 in. x 1,000 ft.	42-252



Barricade Tapes

- High-visibility safety yellow or red polyethylene construction with bold black letters
- Meets OSHA specifications Section 1010.144 for marking physical hazards

42-052

42-001

Property	Method	Value		
Elongation	ASTMD882-75B	≥ 400%		
Composition	IDEAL Specs.	LDPE		
Tensile Strength	ASTMD882	2,350 PSI TD 1,893 PSI MD		
Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-001
Caution Do Not Enter	Yellow		4.0 Mils	42-002
Caution High Voltage	Yellow		4.0 Mils	42-003
Danger	Red		4.0 Mils	42-051
Danger High Voltage Keep Out	Red		4.0 Mils	42-052
Legend	Color		Size	Thickness
Caution	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-011
Caution Do Not Enter	Yellow		2.0 Mils	42-012
Danger	Red		2.0 Mils	42-015



Circuit Breaker Lockout Compatibility Chart

IDEAL														
Standard Breaker Lockouts														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
				1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780
Airpax		Airpax	1											
American Switch		C	1											
Bryant		BR	1											
Bryant		BR	2-3											
Bryant		BRD												
Challenger		C	1											
Challenger	Type C	C	2-3											
Challenger	Same as W DK	CDK												
Challenger		LM	1											
Challenger		NEJ	1-2											
Crouse Hinds		MP	2											
Cutler Hammer		BA	1											
Cutler Hammer		CH	2-3											
Cutler Hammer		CH2	4											
Cutler Hammer		CHB	3											
Cutler Hammer	Quicktag	BAB	1											
Cutler Hammer	Quicktag	BAB	2-3											
Cutler Hammer	BR	BD	1											
Cutler Hammer	BR	BQ	2											
Cutler Hammer	BR	BQC	2											
Cutler Hammer	BR	BR	1											
Cutler Hammer	BR	BR	2-3											
Cutler Hammer	BR	BRH	1											
Cutler Hammer	BR	BRH	2-3											
Cutler Hammer	BR	BRHH	2											
Cutler Hammer	CH	CH	1											
Cutler Hammer	CH	CH	2-3											
Cutler Hammer	CH	CH2	4											
Cutler Hammer	CH	CHB	1											
Cutler Hammer	CH	CHB	2-3											
Cutler Hammer	K-Frame	CHKD	2-3											
Cutler Hammer	L-Frame	CHLD	2-4											
Cutler Hammer	M-Frame	CHMDL	2-3											
Cutler Hammer	N-Frame	CHND	2-4											
Cutler Hammer	CH	CHP	1											
Cutler Hammer	CH	CHP	2-3											
Cutler Hammer	CH	CHQ	1											
Cutler Hammer	CH	CHQ	2											
Cutler Hammer	CH	CHSW	2-3											
Cutler Hammer	K-Frame	CKD	2-3											
Cutler Hammer	CL	CL	1											
Cutler Hammer	CL	CL	2											
Cutler Hammer	L-Frame	CLD	2-4											
Cutler Hammer	L-Frame	CLDC	2-4											
Cutler Hammer	CL	CLR	1-2											
Cutler Hammer	M-Frame	CMDL	2-3											
Cutler Hammer	N-Frame	CND	2-4											
Cutler Hammer	N-Frame	CNDC	2-4											
Cutler Hammer	CH	CSR	1											
Cutler Hammer	K-Frame	DK	2-3											
Cutler Hammer	E125-Frame	E125B												
Cutler Hammer	E125-Frame	E125E												
Cutler Hammer	E125-Frame	E125H												
Cutler Hammer	E125-Frame	E125S												
Cutler Hammer	F-Frame	ED	2-4											
Cutler Hammer	F-Frame	EDC	2-4											
Cutler Hammer	F-Frame	EDH	2-4											
Cutler Hammer	E125-Frame	EFH	1-4											
Cutler Hammer	E125-Frame	EGB	1-4											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
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Cutler Hammer	E125-Frame	EFH	1-4											
Cutler Hammer	E125-Frame	EGB	1-4											
Cutler Hammer	E125-Frame	EGE	1-4											
Cutler Hammer	E125-Frame	EGS	1-4											
Cutler Hammer		EHC												
Cutler Hammer	F-Frame	EHD	1-4											
Cutler Hammer	Tri Pac Cur. Lim	FB	2-3											
Cutler Hammer		FC												
Cutler Hammer	F-Frame	FD	1-4											
Cutler Hammer	F-Frame	FDB	2-4											
Cutler Hammer	F-Frame	FDC	2-4											
Cutler Hammer	F-Frame	FS	2-3											
Cutler Hammer	G-Frame	GB	1-3											
Cutler Hammer	G-Frame	GC	1-3											
Cutler Hammer	Tri Pac Cur. Lim	FB	2-3											
Cutler Hammer		FC												
Cutler Hammer	F-Frame	FD	1-4											
Cutler Hammer	F-Frame	FDB	2-4											
Cutler Hammer	F-Frame	FDC	2-4											
Cutler Hammer	F-Frame	FS	2-3											
Cutler Hammer	G-Frame	GB	1-3											
Cutler Hammer	G-Frame	GC	1-3											
Cutler Hammer	G-Frame	GD	1-3											
Cutler Hammer	G-Frame	GHB	1-3											
Cutler Hammer	G-Frame	GHBGFEP	1											
Cutler Hammer	G-Frame	GHC	1-3											
Cutler Hammer	G-Frame	GHCG-FEP	1											
Cutler Hammer	Quicklag	HBAW	1											
Cutler Hammer	Quicklag	HBAW	2-3											
Cutler Hammer	Quicklag	HBAX	1											
Cutler Hammer	Quicklag	HBAX	2-3											
Cutler Hammer		HFD	1-4											
Cutler Hammer	G-Frame	HGHB	1											
Cutler Hammer	G-Frame	HGHC	1											
Cutler Hammer		HJD	2-4											
Cutler Hammer	K-Frame	HKD	2-4											
Cutler Hammer	L-Frame	HLD	2-4											
Cutler Hammer	L-Frame	HMCP	3											
Cutler Hammer	J-Frame	HMCP	3											
Cutler Hammer	K-Frame	HMCP	3											
Cutler Hammer	L-Frame	HMCP	3											
Cutler Hammer	F-Frame	HMCP	3-4											
Cutler Hammer	M-Frame	HMDL	2-3											
Cutler Hammer	M-Frame	HMDLB	2-3											
Cutler Hammer	N-Frame	HND	2-4											
Cutler Hammer	Quicklag Type P	HQP	1											
Cutler Hammer	Quicklag Type P	HQP	2											
Cutler Hammer	J-Frame	JD	2-4											
Cutler Hammer	J-Frame	JDB	2-3											
Cutler Hammer	J-Frame	JDC	2-4											
Cutler Hammer	K-Frame	KD	2-4											
Cutler Hammer	K-Frame	KDB	2-4											
Cutler Hammer	K-Frame	KDC	2-4											
Cutler Hammer	Tri Pac Cur. Lim	LA	2-3											
Cutler Hammer	L-Frame	LD	2-4											
Cutler Hammer	L-Frame	LDB	2-3											
Cutler Hammer	L-Frame	LDC	2-4											
Cutler Hammer		LH	3											

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IDEAL														
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Cutler Hammer		LHB	3											
Cutler Hammer	Type CC	LJ												
Cutler Hammer		MA	2-3											
Cutler Hammer		MC	2-3											
Cutler Hammer	M-Frame	MD	2-3											
Cutler Hammer	M-Frame	MDL	2-3											
Cutler Hammer	M-Frame	MDS	2-3											
Cutler Hammer	Tri Pac Cur. Lim	NB	2-3											
Cutler Hammer	N-Frame	ND	2-4											
Cutler Hammer	N-Frame	NDC	2-4											
Cutler Hammer	N-Frame	OPTIM	3											
Cutler Hammer	Tri Pac Cur. Lim	PB	2-3											
Cutler Hammer	Quicklag	QBGF	1											
Cutler Hammer	Quicklag	QBGF	2											
Cutler Hammer	Quicklag	QBGFEP	1											
Cutler Hammer	Quicklag	QBGFEP	2											
Cutler Hammer	Quicklag	QBHGF	1											
Cutler Hammer	Quicklag	QBHGF	2											
Cutler Hammer	Quicklag	QBHGFEP	1											
Cutler Hammer	Quicklag	QBHGFEP	2											
Cutler Hammer	Quicklag	QBHW	1											
Cutler Hammer	Quicklag	QBHW	2-3											
Cutler Hammer	Quicklag Type P	QC	1											
Cutler Hammer	Quicklag Type P	QC	2-3											
Cutler Hammer	Quicklag Type P	QCD	1											
Cutler Hammer	Quicklag Type P	QCD	2-3											
Cutler Hammer	Quicklag	QCGF	1											
Cutler Hammer	Quicklag	QCGF	2											
Cutler Hammer	Quicklag	QCGFEP	1											
Cutler Hammer	Quicklag	QCGFEP	2											
Cutler Hammer	Quicklag	QCHGF	1											
Cutler Hammer	Quicklag	QCHGF	2											
Cutler Hammer	Quicklag	QCHG-FEP	1											
Cutler Hammer	Quicklag	QCHG-FEP	2											
Cutler Hammer	Quicklag	QCHW	1											
Cutler Hammer	Quicklag	QCHW	2-3											
Cutler Hammer	Quicklag DIN RAIL	QCR	1											
Cutler Hammer	Quicklag DIN RAIL	QCR	2-3											
Cutler Hammer	Quicklag	QHCW	1											
Cutler Hammer	Quicklag	QHCW	2-3											
Cutler Hammer	Quicklag	QHCX	1											
Cutler Hammer	Quicklag	QHCX	2-3											
Cutler Hammer	Quicklag	QHPW	1											
Cutler Hammer	Quicklag	QHPW	2-3											
Cutler Hammer	Quicklag	QHPX	1											
Cutler Hammer	Quicklag	QHPX	2-3											
Cutler Hammer	Ground Fault	QPGF	1											
Cutler Hammer		QPGF	2											
Cutler Hammer	Ground Fault	QPGFEP	1											
Cutler Hammer		QPGFEP	2											
Cutler-Hammer	Ground Fault	QPHGF	1											
Cutler-Hammer	Quicklag	QPHGF	2											
Cutler-Hammer	Ground Fault	QPHGFEP	1											
Cutler-Hammer	Quicklag	QPHGFEP	2											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
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Cutler-Hammer	Quicklag	QPHW	1											
Cutler-Hammer	Quicklag	QPHW	2-3											
Cutler-Hammer	Miniature DIN RAIL	WME	1-3											
Cutler-Hammer	Miniature DIN RAIL	WMF	1-3											
Cutler-Hammer	Miniature DIN RAIL	WMH	1-4											
Cutler-Hammer	Miniature DIN RAIL	WMM	1-4											
Cutler-Hammer	Miniature DIN RAIL	WMN	1-4											
Cutler-Hammer	Miniature DIN RAIL	WMS	1-4											
Fed. Pacific Elec.		2B	2											
Fed. Pacific Elec.		BAB	1											
Fed. Pacific Elec.		LJ												
Fed. Pacific Elec.		NA-single	3											
Fed. Pacific Elec.		NA-tie bar	2											
Fed. Pacific Elec.		NB	1											
Fed. Pacific Elec.		NBH GFI	1											
Fed. Pacific Elec.		NC	1											
Fed. Pacific Elec.		NE/NEF												
Fed. Pacific Elec.		NEJ												
Fed. Pacific Elec.		NFJ												
Fed. Pacific Elec.		NJJ												
Fed. Pacific Elec.		NJL												
Fed. Pacific Elec.		NM												
Fed. Pacific Elec.		NP-single	1											
Frank Adams	FA Quicklag	P	1											
General Electric	V-Line Miniature Ckt. Bkr	1 Pole	1											
General Electric	V-Line Miniature Ckt. Bkr	2 Pole	2											
General Electric	V-Line Miniature Ckt. Bkr	3 Pole	3											
General Electric	Type C	HQC	3											
General Electric	SE150	SED	2-3											
General Electric	SE150	SEH	2-3											
General Electric	SE150	SEL	2-3											
General Electric	SE150	SEP	2-3											
General Electric	SF250	SFH	2-3											
General Electric	SF250	SFL	2-3											
General Electric	SF250	SFP	2-3											
General Electric	SG600	SGD	2-3											
General Electric	SG600	SGH1	3											
General Electric	SG600	SGH4	2-3											
General Electric	SG600	SGH6	2-3											
General Electric	SG600	SGL1	2-3											
General Electric	SG600	SGL4	2-3											
General Electric	SG600	SGL6	2-3											
General Electric	SG600	SGLA												
General Electric	SG600	SGP4	2-3											
General Electric	SG600	SGP5	2-3											
General Electric	Tri Break	TB1												
General Electric	Tri Break	TB4												
General Electric	Tri Break	TB6												
General Electric	Tri Break	TB8												
General Electric	Mag Break	TBC4												
General Electric	Mag Break	TBC6												
General Electric	Mag Break	TBC8												
General Electric	E150	TE	1-3											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
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General Electric	E150	TEB	1-3											
General Electric	E150	TED	1-3											
General Electric		TEF	1-3											
General Electric	E150	TEL	3											
General Electric	Mag Break	TEML	3											
General Electric	E150	TEY	1-3											
General Electric	E150	TF	1-3											
General Electric	Mag Break	TFC	3											
General Electric	F225	TFJ	2-3											
General Electric	F225	TFK	2-3											
General Electric	F225	TFL	3											
General Electric	Like TED	THED	1-3											
General Electric	Like TED	THEF												
General Electric	F225	THFK	2-3											
General Electric	Q Line	THHQB	2-3											
General Electric		THHQB GF	1											
General Electric	Q Line	THHQB-A	1											
General Electric	Q Line	THHQB-S	1											
General Electric	Q Line	THHQC	1-3											
General Electric	Q Line	THHQC-A	1											
General Electric	Q Line	THHQC-S	1											
General Electric	Q Line	THHQL	2-3											
General Electric		THHQL GF	1											
General Electric	Q Line	THHQL-A	1											
General Electric	Q Line	THHQL-S	1											
General Electric	J600	THJK4	2-3											
General Electric	J600	THJK6	2-3											
General Electric	K1200	THKM12	2-3											
General Electric	K1200	THKM8	2-3											
General Electric	THLC Current Limiting	THLC1	3											
General Electric	Q Line	THQB	2-3											
General Electric	Q Line	THQB GF	1-2											
General Electric	Q Line	THQB-A	1											
General Electric	Q Line	THQB-S	1											
General Electric	Q Line	THOC	2-3											
General Electric	Q Line	THOC GF	1-2											
General Electric	Q Line	THOC-A	1											
General Electric	Q Line	THOC-AL	2-3											
General Electric	Q Line	THOC-S	1											
General Electric	Q Line	THOD	2-3											
General Electric	Q Line	THQDBL	3											
General Electric	Q Line	THQL	2-3											
General Electric	Q Line	THQL GF	1-2											
General Electric	Q Line	THQL-A	1											
General Electric	Q Line	THQL-S	1											
General Electric	Q Line	THOP	1-2											
General Electric		TJ4	3											
General Electric	Mag Break	TJC												
General Electric	TJD432400WL	TJD	2-3											
General Electric	J600	TJJ	2-3											
General Electric	J600	TJK4	2-3											
General Electric	TJK636F000	TJK6	2-3											
General Electric	TJS3604S	TJS												
General Electric	MicroVersaTrip	TK4V	3											
General Electric	Mag Break	TKC	3											
General Electric	TKM4365000	TKM4												
General Electric	K1200	TKM8	2-3											
General Electric		TKMA8	3											
General Electric	Q Line	TQB	2-3											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
				1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780
General Electric	Q-Line	TQB-A	1											
General Electric	Q-Line	TQB-S	1											
General Electric	Q Line	TQC	2-3											
General Electric		TQC-A	1											
General Electric		TQC-S	1											
General Electric	Q Line	TQD	2-3											
General Electric	OLD TQL single throw	TQL	1-3											
General Electric	Q-Line	TQL	2-3											
General Electric	Q Line	TQL-A	1											
General Electric	Q Line	TQL-S	1											
General Electric	Miniature Circuit Breaker	V	1-3											
General Electric		V-Line	1-4											
Heinemann		LB	1											
Heinemann		LF	1											
Heinemann		LJ	1											
Merlin Gerin	Miniature DIN RAIL	C32N	1-4											
Merlin Gerin	Miniature DIN RAIL	C60	1-4											
Merlin Gerin	Miniature DIN RAIL	C60H	1-4											
Merlin Gerin	Miniature DIN RAIL	C60L	2-3											
Merlin Gerin	Miniature DIN RAIL	C60N	3											
Merlin Gerin	400 Amp series	CJ	3											
Merlin Gerin	1,200 Amp series	CK	3											
Merlin Gerin	Miniature DIN RAIL	NC100N	1-4											
Siemens ITE		BL	1											
Siemens ITE		BL	2-3											
Siemens ITE		BL	1											
Siemens ITE		BL	2-3											
Siemens ITE		BLF-GFI	2											
Siemens ITE		BLH	1											
Siemens ITE		BLH	2-3											
Siemens ITE		BQ	1											
Siemens ITE		BQ	2-3											
Siemens ITE		BQCH	1-3											
Siemens ITE		BQD	3											
Siemens ITE		BQD	1-3											
Siemens ITE		BQD6	1-3											
Siemens ITE		BQH	1											
Siemens ITE		BQH	2-3											
Siemens ITE		CED6	2-3											
Siemens ITE		CFD6	2-3											
Siemens ITE		CFD6-ETI	2-3											
Siemens ITE		CJ3												
Siemens ITE		CJD6	2-3											
Siemens ITE		CJD6-ETI	2-3											
Siemens ITE		CLF	2											
Siemens ITE		CMD6	3											
Siemens ITE		CMD6-ETI	3											
Siemens ITE		CND6	3											
Siemens ITE		CPD6	3											
Siemens ITE		CQD	1-3											
Siemens ITE		E2												
Siemens ITE		E4	1											
Siemens ITE		ED2	1-3											
Siemens ITE		ED4	1-3											
Siemens ITE		ED6	1-3											
Siemens ITE		ED6-ETI	3											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
				1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780
Siemens ITE		EE3												
Siemens ITE		EH3												
Siemens ITE		EQP	4											
Siemens ITE		EQT QF												
Siemens ITE	F-Frame	ET												
Siemens ITE		FD6A	2-3											
Siemens ITE		FJ2-B	2-3											
Siemens ITE		FJ3	2											
Siemens ITE		FJ6	2											
Siemens ITE		FXD6A	2-3											
Siemens ITE		FXD6-ETI	2-3											
Siemens ITE		GF	1											
Siemens ITE		HBL	1											
Siemens ITE		HBL	2-3											
Siemens ITE		HBQ	1											
Siemens ITE		HBQ	2-3											
Siemens ITE		HE4												
Siemens ITE		HED4	1-3											
Siemens ITE		HED6	2-3											
Siemens ITE		HFD6	2-3											
Siemens ITE		HFXD6	2-3											
Siemens ITE		HHED6	2-3											
Siemens ITE		HHFD6	2-3											
Siemens ITE		HHJD6	2-3											
Siemens ITE		HHJD6	2-3											
Siemens ITE		HJD6	2-3											
Siemens ITE		HJD6-A	2-3											
Siemens ITE		HJXD6	2-3											
Siemens ITE		HJXD6-A	2-3											
Siemens ITE		HMD6	2-3											
Siemens ITE		HMXD6	2-3											
Siemens ITE		HND6	2-3											
Siemens ITE		HNXD6	2-3											
Siemens ITE		HPD6	3											
Siemens ITE		HPXD6	3											
Siemens ITE		HQJ2-H	3											
Siemens ITE		HQP	1											
Siemens ITE		HQP	2-3											
Siemens ITE		HQPP	1											
Siemens ITE		HQPP	2-3											
Siemens ITE		HQPPH	2											
Siemens ITE		HRD6	3											
Siemens ITE		HRXD6	3											
Siemens ITE		JD6-A	2-3											
Siemens ITE		JJ3												
Siemens ITE		JL3	3											
Siemens ITE		JXD2-A	2-3											
Siemens ITE		JXD6-A	2-3											
Siemens ITE		LL3												
Siemens ITE		MD6	2-3											
Siemens ITE		MXD6	2-3											
Siemens ITE		MXD6-ETI	2-3											
Siemens ITE		ND6	2-3											
Siemens ITE		NH3-F800												
Siemens ITE		NXD6	2-3											
Siemens ITE		PD6	3											
Siemens ITE		PXD6	3											
Siemens ITE		QJ2	2-3											
Siemens ITE		QJ2-H	2-3											
Siemens ITE		QJH2	2-3											
Siemens ITE		QP	1											
Siemens ITE		QP	2-3											
Siemens ITE		QP1	1											
Siemens ITE		QPH	1											
Siemens ITE		QPH	4											
Siemens ITE		QPH	2-3											
Siemens ITE		QPJ	2-3											
Siemens ITE		QPP	1											
Siemens ITE		QPP	2-3											
Siemens ITE		QPPH	1											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
				1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780
Siemens ITE		QPPH	2-3											
Siemens ITE		RD6	3											
Siemens ITE		RXD6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SCMD6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SCND6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SHMD6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SHND6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SMD6	3											
Siemens ITE	Solid State Trip Ckt. Bkr.	SND6	3											
Simplex		NX	3											
Square D		EDB	1-3											
Square D		EGB	1-3											
Square D		EH4	1-3											
Square D		EHB	1-3											
Square D		EHB	2-3											
Square D		EJB	1-3											
Square D		EZ	3											
Square D	100 Amp Frame	FA	1-3											
Square D	100 Amp Frame	FAL	1-3											
Square D	100 Amp Frame	FC	3											
Square D	100 Amp Frame	FCL	2-3											
Square D	FDA 34040	FDA												
Square D	100 Amp Frame	FH	1-3											
Square D	100 Amp Frame	FHL	1-3											
Square D	100 Amp Frame	FHL-DC	3											
Square D	100 Amp Frame	FI	3											
Square D	100 Amp Frame	FIL	3											
Square D	100 Amp Frame	FY	1											
Square D	Mag Gard	GJL	3											
Square D	250 Amp Frame	KA	2-3											
Square D		KAL	2-3											
Square D		KAP												
Square D	250 Amp Frame	KC	2-3											
Square D		KCL	2-3											
Square D	250 Amp Frame	KH	2-3											
Square D		KHL	3											
Square D	250 Amp Frame	KI	2-3											
Square D	250 Amp Frame	KIL	2-3											
Square D	400 Amp Frame	LA	2-3											
Square D		LAL	2-3											
Square D	400 Amp Frame	LH	2-3											
Square D		LHL	3											
Square D		LHP												
Square D		MA	3											
Square D	1000 Amp Frame	MA	2-3											
Square D		MAL	3											
Square D	1000 Amp Frame	MH	2-3											
Square D		MHL	2-3											
Square D		ML-1	3											
Square D		ML-3	3											
Square D	2000 Amp Frame	PA	2-3											
Square D	2000 Amp Frame	PAF	2-3											
Square D	2500 Amp Frame	PC	2-3											
Square D	2500 Amp Frame	PE	3											
Square D	2000 Amp Frame	PH	2-3											
Square D	2000 Amp Frame	PHF	2-3											
Square D	2500 Amp Frame	PX	3											

Circuit Breaker Lockout Compatibility Chart

IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
				1-Pole Snap-On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	Cleat for #65396 44-785	480/600V Clamp On (no hole) 44-807	Cleat for #65397 44-786	Oversize 480/660V 44-823	Multi-pole w/tie bar 44-783	Snap On (SQD QO) 44-768	Clamp On (universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780
Square D	250 Amp Frame	Q1B	2-3											
Square D	250 Amp Frame	Q1L	2-3											
Square D	250 Amp Frame	Q2	2-3											
Square D	250 Amp Frame	Q2H	2-3											
Square D	250 Amp Frame	Q2L	2-3											
Square D	250 Amp Frame	Q2MT	2-3											
Square D	400 Amp Frame	Q4	2-3											
Square D	400 Amp Frame	Q4L	2-3											
Square D	QO	QO	1											
Square D	QO	QO	2-3											
Square D	QO	QO-AFI	1											
Square D	QO	QOB	1											
Square D	QO	QOB	2-3											
Square D	QO	QOB-AFI	1											
Square D	QO	QOB-GFI	1-2											
Square D	QO	QOB-H	2											
Square D	QO	QOB-VH	1											
Square D	QO	QOB-VH	2-3											
Square D	QO	QOB-VHAFI	1											
Square D	QO	QOB-VHGFI	1											
Square D	QO	QO-GFI	1-2											
Square D	QO	QO-H	2											
Square D	Main Circuit Breaker QO	QOM1-VH	2											
Square D	Main Circuit Breaker QO	QOM2-VH	2											
Square D	QO	QO-SWN	2-3											
Square D	QO	QOT	1											
Square D	DIN Rail Mount QO	QOU	1											
Square D	DIN Rail Mount QO	QOU	2-3											
Square D	DIN Rail Mount QO	QOU w/tie	2-3											
Square D	QO	QO-VH	1											
Square D	QO	QO-VH	2-3											
Square D	QO	QO-VHAFI	1											
Square D	QO	QO-VHGFI	1											
Square D	DIN Rail Mount	QYU	1											
Square D	2500 Amp Frame	RG	2-4											
Square D	2500 Amp Frame	RJ	2-4											
Square D	2500 Amp Frame	RL	2-4											
Square D		Y1												
Sylvania GTE		QC	2											
Sylvania GTE		Type C	2											
Thomas & Betts		F Frame	1-3											
Westinghouse		BA	1											
Westinghouse		BA	2-3											
Westinghouse		BA	2-3											
Westinghouse		BA	1											
Westinghouse		BAB	1											
Westinghouse		BR	1											
Westinghouse		BR	2-3											
Westinghouse		BRH	2-3											
Westinghouse		CA												
Westinghouse		DA												
Westinghouse		DK												
Westinghouse		EB	1-3											
Westinghouse		ED												
Westinghouse		EH	1-3											
Westinghouse		EHB	1-3											
Westinghouse		EHD	1-3											
Westinghouse		FA	3											
Westinghouse		FB	2-3											
Westinghouse		FD	1-4											
Westinghouse		FDB	2-4											

Circuit Breaker Lockout Compatibility Chart

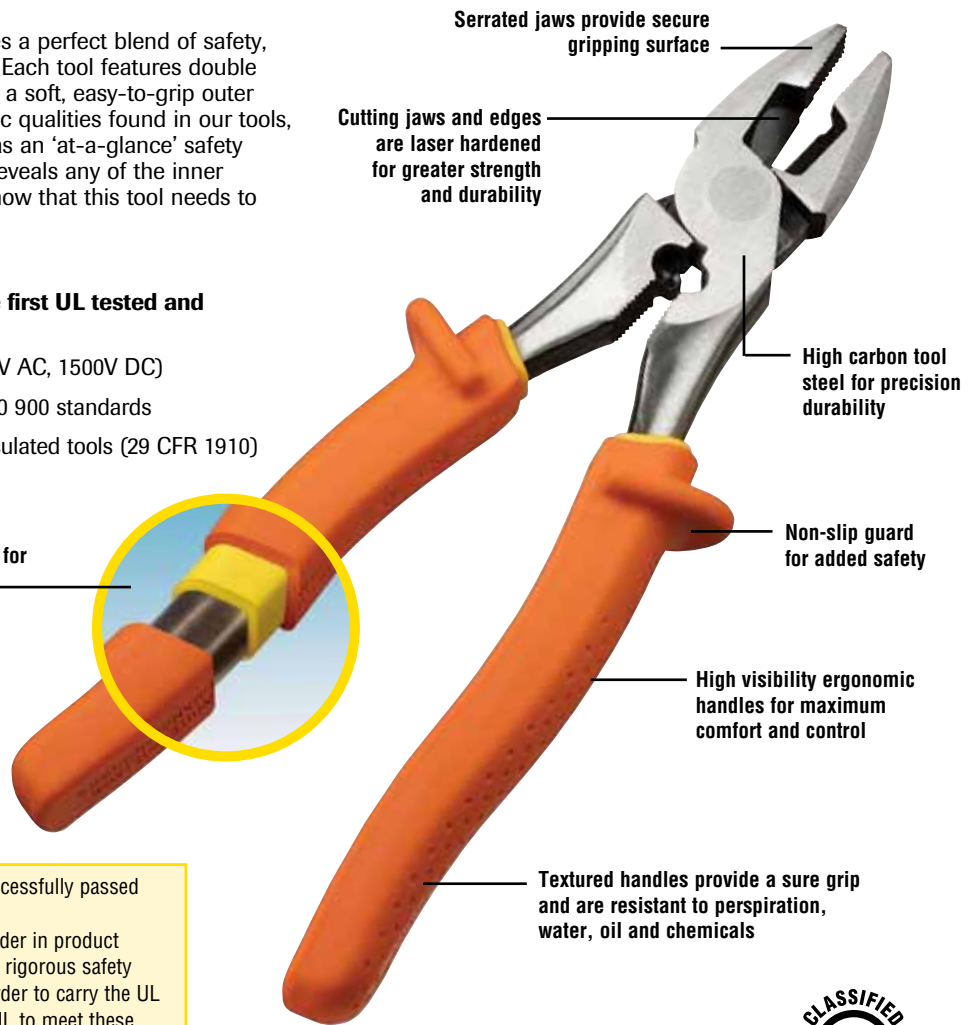
IDEAL														
Mfg.	Breaker Classification	Breaker Type	# of Poles	Standard Breaker Lockouts						EZ Panel Loc™		Mini DIN-type Breaker LO		
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Westinghouse		FDC	2-4											
Westinghouse	For Fire Protection	FP	3											
Westinghouse		GB	1-3											
Westinghouse		GBH	1-3											
Westinghouse		GHB	1-3											
Westinghouse		GR	3											
Westinghouse		HBAW	1											
Westinghouse		HBAX	1											
Westinghouse		HCA	3											
Westinghouse		HFB	1-3											
Westinghouse		HFD	1-4											
Westinghouse		HKD	3											
Westinghouse		HLA												
Westinghouse		HLB												
Westinghouse		HMC												
Westinghouse		HMCP												
Westinghouse		HNC												
Westinghouse		HQNP	3											
Westinghouse		HQP	1											
Westinghouse		JA												
Westinghouse		JD	2-4											
Westinghouse		KA	3											
Westinghouse		KB												
Westinghouse		LA	3											
Westinghouse		LB												
Westinghouse		LBB	3											
Westinghouse		LH												
Westinghouse		MA	2-3											
Westinghouse		MC	2-3											
Westinghouse		MCC	2-3											
Westinghouse		MCPO	3											
Westinghouse		NB												
Westinghouse		P	3											
Westinghouse		PA	3											
Westinghouse		QBHW	1											
Westinghouse		QC	1											
Westinghouse	Quicklag C	QC	3											
Westinghouse		QCHQ	1											
Westinghouse		QHCW	1											
Westinghouse		QHCX	1											
Westinghouse		QHPW	1											
Westinghouse		QPHW	1											
Westinghouse		Quicklag P												
Westinghouse		RE												
Westinghouse		RH	3											
Westinghouse		WPHX	1											
Zinsco		HQB	3											
Zinsco		QB	1											
Zinsco		QCB	2											
Zinsco		Type Q	1											
Zinsco		Type T	1											

Insulated Tools


The IDEAL insulated tool line creates a perfect blend of safety, comfort and precision functionality. Each tool features double insulated Santoprene® handles with a soft, easy-to-grip outer surface. In addition to the ergonomic qualities found in our tools, the insulated coating process acts as an 'at-a-glance' safety check. If the orange outer coating reveals any of the inner yellow surface, an electrician will know that this tool needs to be replaced.

Features

- IDEAL pliers and strippers are the **first UL tested and listed** insulated tools available
- Tools are 1000 Volt certified (1000V AC, 1500V DC)
- Meets ASTM F1505-01 and IEC 60 900 standards
- Meets OSHA requirements for insulated tools (29 CFR 1910)



Santoprene® is a registered trademark of Exxon Mobil.

CLASSIFIED
 Our tools are the first to have successfully passed UL classification requirements! Recognized as the undisputed leader in product safety and certification, UL has developed rigorous safety standards for 1000V insulated tools. In order to carry the UL classified mark, tools must be tested by UL to meet these standards.

Only tools that carry the UL Classified mark have passed this stringent certification process. Why accept anything else?



Cutting Jaws

Induction hardened cutting edges for precise cuts and long life.



Impact-Resistant

Designed for the most rugged job site conditions.



Safety Finger Guard

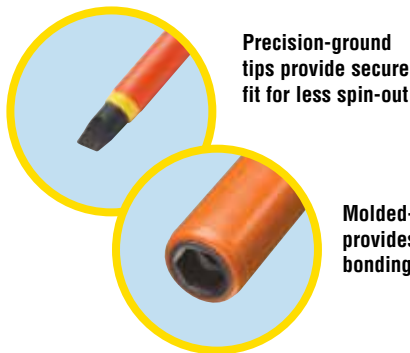
Reduces chance of accidental contact with exposed metal tool parts.

Insulated Screwdrivers & Nutdrivers – More Torque and More Safety

IDEAL insulated screwdrivers and nutdrivers are VDE certified to 1000V AC. Each one is designed to meet ASTM F1505-01, EN, DIN and IEC 60 900 test standards.

Features

- Tempered blades are finished with black oxide and super hardened for maximum quality
- Tools are certified to 1000V (1000V AC, 1500V DC)
- Precision ground tips provide secure fit for less spin-out
- Meets OSHA requirements for insulated tools (29 CFR 1910)



Precision-ground tips provide secure fit for less spin-out

Molded-on insulation provides permanent bonding



Tempered chrome vanadium tool steel blades are super hardened for maximum quality



Warning

Whenever possible, always de-energize lines and equipment prior to working on or around them. 1000V insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source. Work around energized circuits should only be done when absolutely necessary and only by qualified technicians. Properly damage, personal injury or death may result if the following warnings are not heeded:

- Do not use any insulated tool if the insulation cracks, breaks or becomes damaged in any way. Destroy all dual-layer tools if the inner yellow layer shows through the orange outer layer.
- Do not touch the uninsulated portion of an insulated tool or any conductive object when either might contact an energized source.
- Tools must be kept clean and dry for proper insulating properties.
- Always inspect insulated tools before use.
- Use additional protection by wearing protective clothing and approved eye protection.
- Always use tools that are specifically designed for the task.
- These tools meet UL 22PP, ASTM F1505-01 and IEC 60900 standards for insulated tools.
- Always follow OSHA 1910 S and NFPA 70E safety requirements when doing electrical work.

REGULATIONS

Testing:

- Every 1000V insulated plier we sell is individually tested to ensure no failure when subjected to live current.

UL and VDE Certification:

Listed below are some of the tests we perform in order to pass certification:

- Tools are immersed in water for 24 hours, then tested under current for 3 minutes to ensure no current leakage or sparkover occurs.
- After being stored for 168 hours at -40°C (-40°F), tools are dropped to ensure no damage from impact.
- After being stored for 168 hours at $+70^{\circ}\text{C}$ (158°F), a tensile load is applied to ensure the grip is firmly bonded to the tool.
- Tools are subjected to flame for 10 seconds to ensure no flammability of the insulating material.

OSHA Regulations:

OSHA 1910.335(a)(2)(i) When working near exposed energized conductors or circuit parts, each employee shall use insulated tools or handling equipment if the tools or handling equipment might make contact with such conductors or parts.

OSHA 1910.335 (a)(1)(i) Employees working in areas where there are potential electrical hazards shall be provided with, and shall use, electrical protective equipment that is appropriate for the specific parts of the body to be protected and for the work to be performed.

Make sure you are in compliance by providing and using IDEAL insulated tools!

Basic Insulated Kit

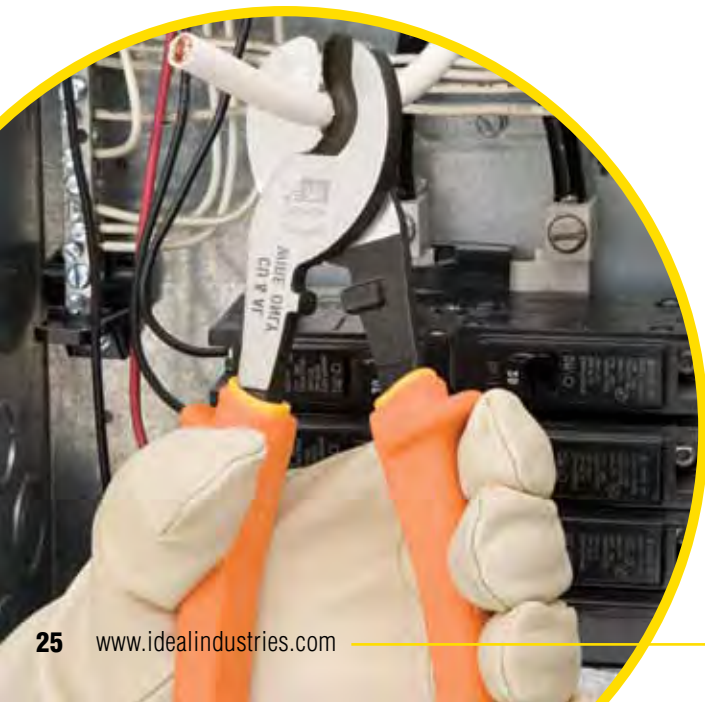


Description	Cat. No.
Basic Insulated Kit	35-9100
35-9100 Includes	Cat. No.
7-1/2 in. Non-Conductive Fuse Puller	34-002
Red Safety Lock w/Key	44-916
Breaker Lockout, Tall & Wide	44-956
Breaker Lockout, Standard & Double	44-957
9 in. Insulated Side Cutter w/Crimp	30-9430
8 in. Insulated Offset Diagonal Cutting Plier	35-9029
8-1/2 in. Insulated Long-Nose Plier	35-9038
2/0 Insulated Cable Cutter	35-9052
1/4 in. x 4 in. Insulated Slotted Screwdriver	35-9150
1/4 in. x 6 in. Insulated Slotted Screwdriver	35-9151
#2 x 4 in. Insulated Phillips Screwdriver	35-9194
Heavy-Duty Soft Case	35-9350
Insulated T [®] -5 T [®] -Stripper Wire Stripper	45-9120

Journeyman Insulated Kit



Description	Cat. No.
Journeyman Insulated Kit	35-9102
35-9102 Includes	Cat. No.
7-1/2 in. Non-Conductive Fuse Puller	34-002
Red Safety Lock w/Key	44-916
Breaker Lockout, Tall & Wide	44-956
Breaker Lockout, Standard & Double	44-957
Volt-Sensor [®] NCV Tester	61-063
Insulated Multi-Crimp Tool	30-9429
Insulated Linesman's Pliers	30-9430
8 in. Insulated Offset Diagonal Cutting Plier	35-9029
8-1/2 in. Insulated Long-Nose Plier	35-9038
2/0 Insulated Cable Cutter	35-9052
1/4 in. x 4 in. Insulated Slotted Screwdriver	35-9150
1/4 in. x 6 in. Insulated Slotted Screwdriver	35-9151
5/16 in. x 7 in. Insulated Slotted Screwdriver	35-9166
3/8 in. x 8 in. Insulated Slotted Screwdriver	35-9168
#1 x 3-3/16 in. Insulated Phillips Screwdriver	35-9193
#2 x 4 in. Insulated Phillips Screwdriver	35-9194
#3 x 6 in. Insulated Phillips Screwdriver	35-9196
3/16 in. x 5 in. Insulated Nutdriver	35-9290
1/4 in. x 5 in. Insulated Nutdriver	35-9291
5/16 in. x 5 in. Insulated Nutdriver	35-9292
3/8 in. x 5 in. Insulated Nutdriver	35-9294
7/16 in. x 5 in. Insulated Nutdriver	35-9295
1/2 in. x 5 in. Insulated Nutdriver	35-9296
Insulated Knife	35-9340
Heavy-Duty Soft Case	35-9352
10 in. Insulated Tongue & Groove Plier	35-9430
Insulated T [®] -5 T [®] -Stripper Wire Stripper	45-9120



Standard Insulated Kit



Description	Cat. No.
Standard Insulated Kit	35-9101
35-9101 Includes	Cat. No.
7-1/2 in. Non-Conductive Fuse Puller	34-002
Red Safety Lock w/Key	44-916
Breaker Lockout, Tall & Wide	44-956
Breaker Lockout, Standard & Double	44-957
Volt-Sensor® NCV Tester	61-063
9 in. Insulated Side Cutter w/Crimp	30-9430
8 in. Insulated Offset Diagonal Cutting Plier	35-9029
8-1/2 in. Insulated Long-Nose Plier	35-9038
2/0 Insulated Cable Cutter	35-9052
1/8 in. x 4 in. Insulated Slotted Screwdriver	35-9149
1/4 in. x 4 in. Insulated Slotted Screwdriver	35-9150
1/4 in. x 6 in. Insulated Slotted Screwdriver	35-9151
5/16 in. x 7 in. Insulated Slotted Screwdriver	35-9166
3/8 in. x 8 in. Insulated Slotted Screwdriver	35-9168
#1 x 3-3/16 in. Insulated Phillips Screwdriver	35-9193
Insulated Knife	35-9340
Heavy-Duty Soft Case	35-9351
10 in. Insulated Tongue & Groove Plier	35-9430
Insulated T®-5 T®-Stripper Wire Stripper	45-9120

9-Piece Insulated Kit



Description	Cat. No.
9-Piece Insulated Kit	35-9108
35-9108 Includes	Cat. No.
9 in. Insulated Side Cutter w/Crimp	30-9430
8 in. Offset Diagonal Cutting Plier	35-9029
8-1/2 in. Long Nose Plier	35-9038
Slotted 7/32 in. x 5 in. Screwdriver	35-9147
Slotted 1/4 in. x 4 in. Screwdriver	35-9150
Slotted 1/4 in. x 6 in. Screwdriver	35-9151
Phillips #1 x 3-3/16 in. Screwdriver	35-9193
Phillips #2 x 4 in. Screwdriver	35-9194
Heavy-Duty Soft Case	35-9350
T®-5 T®-Stripper Wire Stripper	45-9120

2-Piece Insulated Screwdriver Kit



Description	Cat. No.
2-Piece Insulated Kit	35-9305
35-9305 Includes	Cat. No.
Slotted 1/4 in. x 4 in. Insulated Screwdriver	35-9150
Phillips #2 x 4 in. Insulated Screwdriver	35-9194

Insulated Hand Tools



35-9038 30-9429 35-9430 30-9430 35-9052 35-9029 45-9120

Description	Cat. No.
8-1/2 in. Long-Nose Pliers	35-9038
9-3/4 in. Multi-Crimp Tool	30-9429
10 in. Tongue and Groove Pliers	35-9430
9-1/4 in. Side Cutting Linesman Pliers	30-9430
9-1/2 in. High-Leverage Cable Cutter	35-9052
8 in. Diagonal Cutting Pliers w/angled head	35-9029
Premium T®-Stripper Wire Stripper	45-9120

Insulated Screwdrivers



Description	Cat. No.
9-Piece Insulated Screwdriver Kit	35-9103
Kit 35-9103 Includes:	Cat. No.
Phillips #1 x 3-3/16 in. Insulated Screwdriver	35-9193
Phillips #2 x 4 in. Insulated Screwdriver	35-9194
Phillips #3 x 6 in. Insulated Screwdriver	35-9196
Square SQ #0 1/4 in. x 4 in. Insulated Screwdriver	35-9690
Slotted 1/4 in. x 4 in. Insulated Screwdriver	35-9150
Slotted 7/32 in. x 5 in. Insulated Screwdriver	35-9147
Slotted 1/4 in. x 6 in. Insulated Screwdriver	35-9151
Slotted 5/16 in. x 7 in. Insulated Screwdriver	35-9166
Slotted 3/8 in. x 8 in. Insulated Screwdriver	35-9168
Hard Case	35-9353

Insulated Nutdrivers



Description	Cat. No.
7-Piece Insulated Nutdriver Kit	35-9104
Kit 35-9104 Includes:	Cat. No.
3/16 in. x 5 in. Insulated Nutdriver	35-9290
1/4 in. x 5 in. Insulated Nutdriver	35-9291
5/16 in. x 5 in. Insulated Nutdriver	35-9292
3/8 in. x 5 in. Insulated Nutdriver	35-9294
7/16 in. x 5 in. Insulated Nutdriver	35-9295
1/2 in. x 5 in. Insulated Nutdriver	35-9296
9/16 in. x 5 in. Insulated Nutdriver	35-9297
Hard Case	35-9353

Insulated Knife

Description	Cat. No.
Insulated Electrician's Skinning Knife	35-9340




Cases



Description	Cat. No.
Soft Zipper Case for Basic Kit (35-9100 & 35-9108)	35-9350
Soft Zipper Case for Standard Kit (35-9101)	35-9351
Soft Zipper Case for Journeyman Kit (35-9102)	35-9352
Hard Case for Screwdriver Kit (35-9103) & Nutdriver Kit (35-9104)	35-9353

Safe-T-Grip® Fuse Pullers


- Maximum efficiency and convenience for removing or replacing cartridge-type fuses
- Three sizes handle fuses ranging from 0 to 600A
- Fully insulated, high-dielectric, glass-filled polypropylene construction
- Notched handles provide safe, no-slip grip
- Clearly marked amperage ranges
- Exceed MIL specifications

Description	Cat. No.
Small Puller for 250V, 9/32 in. to 1/2 in. dia. fuses; 5 in. long 	34-001
Medium Puller for 0 to 100A/250V & 600V, 1/2 in. to 1 in. dia. fuses; 7-1/2 in. long 	34-002
Large Puller for 31 to 600A/250V & 31 to 400A/600V, 3/4 in. to 2-1/2 in. dia. fuses; 11-3/4 in. long 	34-003

Fuse Puller & Test Light

- Convenient pocket-sized tool safely pulls cartridge fuses and checks electrical connections
- Test prods fit parallel and tandem slot receptacles
- Built-in resistors limit current flow to eliminate false indication
- For 9/16 in. to 1 in. fuses; for use on fuses to 100A/250V and 60A/600V
- Test capacity from 100V to 600V AC/DC





Description	Cat. No.
Fuse Puller & Test Light 	34-012

Fuse Puller Cross Reference

Fuse Size	Current	Voltage	IDEAL	Bussmann	Littlefuse
Ferrule Type	Amps	Volt a.c.			
1/4 x 1-1/4	1/500 to 30	250	34-015	FP-A3	97023
13/32 x 1-1/2	1/10 to 30	250	34-001, 34-015	FP-2	MFP
9/16 x 2	1/10 to 30	250	34-002, 34-012, 34-016	FP-2	LPFP
13/16 x 3	35 to 60	250	34-016, 34-003, 34-012	FP-2	LPFP
Knife Blade	Amps	Volt a.c.			
1 x 5-7/8	70 to 100	250	34-012, 34-002, 34-016	FP-3	LPFP
1-1/2 x 7-1/8	110 to 200	250	34-003	FP-3	LPFP
2 x 8-5/8	225 to 400	250	34-003	FP-4	GFP
2-1/2 x 10-3/8	450 to 600	250	34-003	FP-4	GFP
Ferrule Type	Amps	Volt a.c.			
13/32 x 1-1/2	1/10 to 30	600	34-001, 34-012, 34-016	FP-2	MFP
3/4 x 5	1/10 to 30	600	34-002	FP-2	MFP
1 x 5-1/2	35 to 60	600	34-012, 34-002, 34-016	FP-3	MFP
Knife Blade	Amps	Volt a.c.			
1-1/4 x 7-1/8	70 to 100	600	34-003	FP-3	LPFP
1-3/4 x 9-5/8	110 to 200	600	34-003	FP-4	LPFP
2-1/2 x 11-5/8	225 to 400	600	34-003	FP-4	LPFP
3 x 13-3/8	450 to 600	600	NONE	NONE	NONE

Fuse Pullers

- Molded of tough, high-impact nylon for greater strength
- No-slip gripping surface and protective finger stops for added safety

Description	Cat. No.
Small Puller for 0 to 30A/250V, 1/4 in. to 1/2 in. dia. fuses; 5 in. long 	34-015
Large Puller for 0 to 100A/250V & 0 to 60A/600V, 9/16 in. to 1 in. dia. fuses; 7-1/4 in. long 	34-016

Volt-Guard™ Fish Tapes

- Non-conductive up to 1000V
- Rectilinear profile superior for greater pushing power
- Designed for use around live circuits
- Pulling Strength 350 lbs.



Tuff-Grip™ Pro Case w/SpeedGrip™ Handle

Length	Width & Thickness	Case Dia.	End Type	Tuff-Grip™ Pro Case	Repl. Tapes
Fiberglass					
60 ft.	.1875 in. x .094 in.	12 in.	Eyelet	31-542	31-552
120 ft.				31-544	31-554

S-Class® Fish Tapes

- Non-conductive tape for use around live circuits
- Strong S-Class® core for longer life and greater pushing power
- Designed for use around live circuits
- Pulling strength 500 lbs.



Tuff-Grip™ Pro Case w/SpeedGrip™ Handle Rapid-Pak® Case w/Speed Winder Knob

Length	Width & Thickness	Case Dia.	End Type	Tuff-Grip™ Pro Case	Rapid-Pak®	Repl. Tapes
S-Class® Nylon Jacketed Fiberglass						
50 ft.	3/16 in. dia.	12 in.	Leader	31-060	31-187	31-150
50 ft.			Eyelet	31-062	31-190	31-160
100 ft.			Leader	31-061	31-186	31-152
100 ft.			Eyelet	31-063	31-189	31-162
200 ft.			Leader	31-064	31-207	31-155
200 ft.			Eyelet	31-065	31-208	31-165

Volt-Guard™ Non-Conductive Eyelet

S-Class® High Strength Steel Eyelet

S-Class® Omni-directional Leader

TightSight® Clamp Meters 1000 & 660 Amp

- TightSight® bottom display
 - Tapered jaws with hook tip
 - Measures AC current
 - True RMS
 - AC/DC Voltage
 - Capacitance
 - Audible continuity
 - Frequency via clamp head or test leads
 - Resistance
 - High frequency rejection*
 - Peak hold
 - Max/min hold
 - Data hold
 - Selectable audible and visual voltage alerts on AC/DC voltage functions
 - Selectable auto power off
 - Backlit display
 - Low battery indicator
 - 2-year warranty
- *Reads accurately on noisy electrical circuits.

Description	Cat. No.
1000AAC Clamp Meter w/differentiating features	61-773
1000A AC/DC Clamp Meter	61-775
660AAC Clamp Meter	61-763
660A AC/DC Clamp Meter	61-765

Includes: Carrying Case and Test Leads w/Alligator Clips.

4-in-1 Test Tools (700 Series)

- 200AAC current capability
- Non-contact voltage (40-600VAC)
- Vibration mode to verify AC voltage
- Harmonics indicator
- Capacitance
- Max hold
- Continuity
- Low battery indication
- Integral lead storage
- Audible dangerous voltage warning on all ranges
- Auto power off
- Ergonomic hourglass shape
- Compact clamp head
- 2-year warranty



61-704



Description	Cat. No.
4-in-1 Test Tool w/TRMS, Backlight	61-704
4-in-1 Test Tool	61-702

Includes: Carrying Case and Silicone Test Leads.



1000A Clamp (61-773)



Exclusive TightSight® Display



480 Series Commercial-Grade Multimeters

- True RMS
- Auto AC/DC voltage detect w/low impedance (Auto - VLoZ)
- Capacitance
- Frequency
- Analog bar graph
- Min/max
- Non-contact voltage detection
- Low battery indication
- Auto power off
- 2-year warranty



61-486



Description	Cat. No.
Digital Multimeter w/peak hold, temperature, includes thermocouple	61-486
Digital Multimeter	61-484

Include: Test Leads & Carrying Case.

Please visit www.idealindustries.com for meter/tester specifications.

HeatSeeker® Thermal Imagers

- Blended thermal/digital image (0-100% & PIP)
- Hottest/coldest temperature cursors instantly display on live screen
- Sequence image recording activated by alarm settings
- Class II laser
- Built-in LED light
- High and low temperature alarms
- Save images with text and voice annotation
- Adjustable emissivity for maximum accuracy
- Multi-lingual - nine languages included
- Six-hour battery life
- Tripod mountable
- ThermalVision™ PC software included
- 2-year warranty



320 x 240
61-848
160 x 120
61-846

47 x 47
61-844

Thermal Imaging Demo Video ▶



CE N12966

Description	Cat. No.
HeatSeeker® 320 Thermal Imager, Carrying Case, Power Supply, Removable-Rechargeable Battery, ThermalVision™ 160 PC Software and USB cable	61-848
HeatSeeker® 160 Thermal Imager, Carrying Case, Power Supply, Removable-Rechargeable Battery, ThermalVision™ 160 PC Software and USB cable	61-846
HeatSeeker® Thermal Imager, Removable Handle, Carrying Case, Power Supply, ThermalVision™ PC Software and USB Cable	61-844

SureTest® Circuit Analyzers

- Measures voltage drop under load (12A, 15A, 20A load tests)
- Hot and neutral conductor impedances
- Estimates Load on Line (ELL) up to 15A
- Tests GFCIs and EPDs for proper operation
- Super-bright display
- High accuracies
- True RMS
- Line voltage
- Peak voltage
- Frequency
- Ground to neutral voltage
- Ground impedance
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Conducts testing without disturbing sensitive loads
- Verifies isolated grounds (with 61-176 adapter)
- 2-year warranty

61-165



UL US CE CAT III 300V

Open/Closed Circuit Tracers

- Identifies breakers and fuses
- Pinpoints opens and shorts
- Traces wires
- "0-99" display of signal strength
- Audible intensifies in tone/pitch
- Works on energized or de-energized circuits (0 - 600V AC/DC)
- Four modes of sensitivity – search high, search low, trace and breaker
- Peak bar graph
- 2-year warranty

61-958



UL US CE N12966 CAT III 600V

Circuit Tracer Demo Video ▶



Description	Cat. No.
SureTest® Circuit Analyzer - Tests AFCIs wiring, tests for shared neutrals	61-165
SureTest® Circuit Analyzer	61-164

Description	Cat. No.
Kit Includes: Rotating Display, Inductive Clamp and Battery Pack	61-958
Kit Includes: Rotating Display	61-956
Kit Includes: Standard Display	61-954

Please visit www.idealindustries.com for meter/tester specifications.

Insulation Testers

- Checks new installations for proper insulation
- Checks existing installations and motor windings for breakdowns in insulation
- 2-year warranty



61-797



Description	Cat. No.
Insulation Meter w/PI, DAR, Remote Probe	61-797
Insulation Tester	61-795

Vol-Con® Elite Digital Voltage Testers

- Tests for AC Voltage from 24-600VAC
- Tests for DC Voltage from 6-220VDC
- Visual and audible warning
- Audible continuity
- Non-contact voltage indication (40-600VAC)
- Low impedance to eliminate ghost voltages
- Low battery indicator
- Replaceable silicone test leads
- Integral lead storage
- 2-year warranty



61-092



Description	Cat. No.
Vol-Con® Elite Digital Voltage Tester w/vibration mode	61-092
Vol-Con® Elite Digital Voltage Tester	61-090

Split-Jaw™ Smart Meter

- Measures 0.9-200AAC
- Measures 1.3-750VAC
- Measures 2.1-1000VDC
- Measures 0.0-9999Ω
- Audible continuity
- Data hold
- Integral lead storage
- Replaceable test leads
- Auto power off
- Low battery indication
- 2-year warranty

Description	Cat. No.
Split-Jaw™ Smart Meter	61-096

Includes: Test Leads.

Solenoid Voltage Testers

- Extremely rugged and reliable
- Vibrates when voltage is present
- Indicates AC/DC voltage level
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- 2-year warranty



61-076



Description	Cat. No.
Vol-Con® Voltage/Continuity Tester, 5-600V AC/DC	61-076
Vol-Test® Voltage Tester, 100-600V AC/DC	61-065

XL-Series Solenoid Voltage Testers

- Rugged and reliable tester
- Vibrates when voltage is present
- Indicates AC/DC voltage level
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator lamp
- Dual voltage indication for backup safety
- Compact size
- 2-year warranty



61-086



Description	Cat. No.
Vol-Con® XL Voltage/Continuity Tester, 6-600V AC/DC	61-086
Vol-Test® XL Voltage Tester, 80-600V AC/DC	61-085



Please visit www.idealindustries.com for meter/tester specifications.

Circuit Breaker Finders

- Fully automatic operation
- Positively identifies circuit breakers and fuses without service interruption
- Self calibrating
- Visual and audible indicators
- 2-year warranty



61-534
w/GFCI wiring tester



Description	Cat. No.
Circuit Breaker Finder w/Digital Receiver & GFCI Circuit Tester	61-534
Circuit Breaker Finder w/Analog Receiver	61-532

VoltAware™ Non-Contact Voltage Tester

- Indicates presence of voltage from 40-1000VAC
- Visual indication of voltage
- Selectable audible indication of voltage
- Sleek, compact design
- Green LED indicates power on
- Low battery indicator
- Battery replacement (AAA size)
- 2-year warranty



Description	Cat. No.
VoltAware™ Non-Contact Voltage Tester	61-025

Safety in the Field

The power demands of today's high-tech world have caused a marked increase in occurrences and levels of transient overvoltages. The International Electrotechnical Commission (IEC) has developed a safety standards model for measurement, control and laboratory use.

Category I – The signal level for telecommunications, electronic and other low-energy equipment with transient-limiting protection. Peak impulse transient range is 600–4,000 volts with a 30 ohm source.

Category II – The local level for fixed and non-fixed powered devices including appliances, lighting and portable equipment. Outlets located more than 30 feet from CAT III sources and 60 feet from CAT IV sources. Peak impulse transient range is from 600–6,000 volts with a 12 ohm source.

Category III – The distribution level for fixed primary feeders or branch circuits. Circuits that are separated from CAT IV sources by at least one level of transformer isolation. Peak impulse transient range is 600–8,000 volts with a 2 ohm source.

Category IV (proposed) – The primary supply level for the highest levels of transient overvoltage. Includes the utility service both outside and at the service entrance, service drop from the pole to the building, overhead line to remote buildings, and underground line to a well pump. Peak impulse transient range is 600–12,000 volts with less than a 1 ohm source.

Receptacle Testers

- Warns against faulty wiring in 3-wire receptacles
- For use on 120VAC circuits
- 1-year warranty



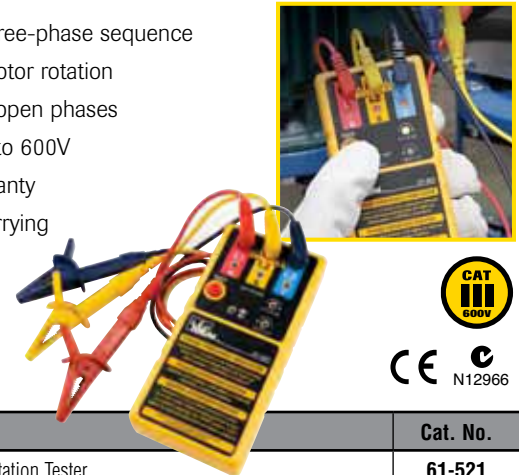
61-501



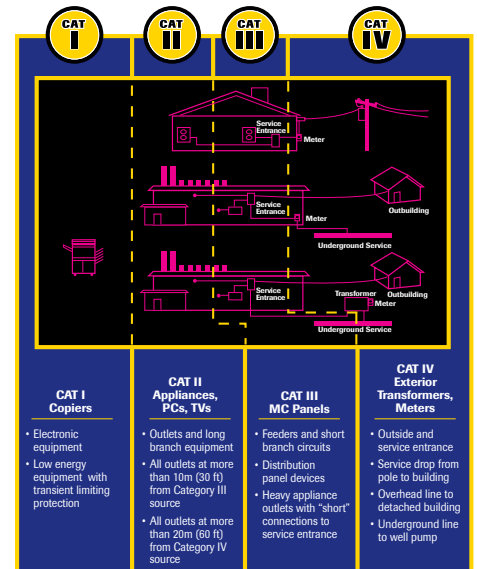
Description	Cat. No.
GFCI Receptacle Tester	61-501
Receptacle Tester	61-500

3-Phase/Motor Rotation Tester

- Identifies three-phase sequence
 - Indicates motor rotation
 - Checks for open phases
 - For use up to 600V
 - 2-year warranty
- Includes carrying case

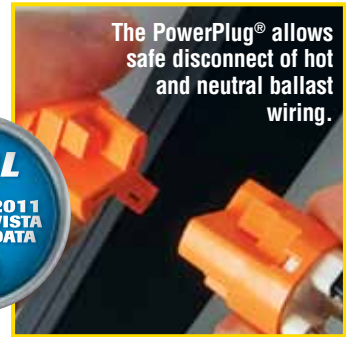


Description	Cat. No.
3-Phase/Motor Rotation Tester	61-521







powerplug® Luminaire Disconnect

- Meets new NEC and CEC code changes for non-residential fluorescent luminaires
- Perfect for OEM new lighting installation or retrofit lighting applications
- Meets UL and CSA finger-probe safety requirements
- Allows safe disconnect of hot and neutral ballast wiring.



Based on 2011 data available from Epicor/Vista.

PowerPlug® Selection Chart		
Application	New Installations	Retrofits
For 1-ballast fixtures	102	102, 182
For 2-ballast, dimming and switching fixtures	103	103, 183

Model	Color	Electrical Rating	Wire Range	Line Side	Ballast Side	Quantity	Cat. No.	
102 2-wire 	Orange	6 Amps/600 Volts Max.	Solid	#12 – #18		Card of 25	30-372	
			Stranded	#12 – #14 (≤19 str.)		Jar of 75	30-382J	
			Stranded Tin-Bonded	#12 – #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)		Jar of 150	30-352J	
						Box of 1,000	30-102	
103 3-Wire 	Orange	6 Amps/600 Volts Max.	Solid	#12 – #18	#18	Card of 20	30-383X	
			Stranded	#12 – #14 (≤19 str.)		None	Jar of 50	30-383XJ
			Stranded Tin-Bonded	#12 – #14 (≤19 str.) #16 (≤26 str.) #18 (≤16 str.)		#18 (≤16 str.)	Jar of 100	30-353XJ
							Box of 1,000	30-103X
182 2-wire 	Orange	3 Amps/600 Volts Max.	Solid	#18		Box of 100	30-082	
183 3-Wire 						Box of 2,500	30-682	
						Box of 1,000 w/6" leads	30-682L	
						Box of 100	30-083	
						Box of 2,500	30-683	


SpliceLine® In-Line Wire Connectors

The SpliceLine® is a crimp-free, push-in wire connector that installs in half the time of a traditional butt splice. Perfect for lengthening a short wire in a box, for pre-fab operation or for surface raceway wiring. SpliceLine® accepts solid and stranded wire, is UL Listed and is made in the U.S.A.

- Crimp-free, push-in butt splice
- Easily passes through 1/2 in. knockouts
- End-to-end connection ideal for pre-fab operations
- Transparent polycarbonate window for visual inspection of connection
- Wide wire range of: 12 – 20 AWG solid & 12 – 16 AWG stranded

A GREAT PRE-FAB SOLUTION



Model	Color	Rating	Wire Type	Wire Size	Qty.	Cat. No.
42 	Orange	600V/20A 105°C	Solid	#12 – #20	10/card	30-1742
			Stranded	#12 – #16 (≤19 str.)	100/box	30-1042
			Stranded Tin-Bonded	#14 – #18 (≤19 str.)	300/jar	30-1042J
					2,500/box	30-1642



WeatherProof® / UnderGround® Wire Connectors

- WeatherProof® Wire Connectors are suitable for interior and exterior electrical connections exposed to rain or damp conditions.
- UnderGround® Wire Connectors suitable for use in a wide variety of direct burial and wet location electrical connections



The silicone-based sealant protects electrical connections against harsh conditions, eliminating the need for heat-shrink or excessive taping.

Model	Color	Wire Combination Range (In.)	Wire Combination Range (mm)	Qty.	Cat. No.
61®	Blue/Orange	600V* 22 to 14 AWG Min. 2 #20 Max. 2 #14	600V* ,34mm ² to 4,0mm ² Min. 2-,5mm ² Max. 2-2,5mm ²	6/card	30-061
				25/card	30-161
				100/box	30-261
				1,000/box	30-361
62®	Blue/Red	600V* 18 to 8 AWG Min. 2 #18 Max. 3 #10	600V* ,75mm ² to 10,0mm ² Min. 2-,75mm ² Max. 3-6,0mm ²	5/card	30-062
				20/card	30-162
				100/box	30-262
				1,000/box	30-362
63®	Blue/Dr. Blue	600V* 16 to 6 AWG Min. 2 #14 Max. 2 #8 & 1 #10	600V* 1,5mm ² to 16,0mm ² Min. 2-2,5mm ² Max. 2-10,0mm ² w/1-6,0mm ²	3/card	30-063
				15/card	30-163
				100/box	30-263
				1,000/box	30-363

1,000V maximum fixtures and signs.

MudBug® Utility Wire Connectors

- Connects underground gas tracer lines providing superior protection
- Moisture and corrosion resistant, pre-filled with non-hardening, 100% silicone
- 20 - 8 AWG wire range capacity
- UL Listed to direct burial test standard 486D up to 600V maximum voltage



Model	Color	Wire Combination Range (In.)	Wire Combination Range (mm)	Qty.	Cat. No.
60	Yellow	600V* 20 to 10 AWG Min. 1 #20 w/1 #18 Max. 1 #10 & 2 #12	600V* ,5mm ² to 6,0mm ² Min. 1-,5mm ² w/1 ,75mm ² Max. 1-6,0mm ² w/2-4,0mm ²	25/box	30-160Y
				1,000/box	30-360Y
64	Yellow	600V* 18 to 8 AWG Min. 2 #18 Max. 3 #10	600V* ,75mm ² to 10,0mm ² Min. 2-,75mm ² Max. 3-6,0mm ²	25/box	30-164Y
				1,000/box	30-364Y

1,000V maximum fixtures and signs.

Twister® Al/Cu Wire Connectors

- Only aluminum-to-copper twist-on connector specifically designed to guarantee a secure connection while preventing aluminum corrosion
- Specially formulated corrosion-resistant compound penetrates corrosion build-up on aluminum conductors for increased conductivity and cooler connections
- Compact, one-piece design features ribbed cap, swept wings and hexagonal head for easy installation by hand or with standard nutdriver
- Live-action, square-wire spring expands and contracts with aluminum wire
- Deep skirt provides maximum dielectric strength
- Tough, UL 94V-2 flame-retardant shell rated at 105°C (221°F)
- Comply with N.E.C. Section #110-14(b) for aluminum-to-copper connections; UL Listed to 486C and CSA Certified to C22.2 #188; complies with Federal Specification W-S-610E
- UL Listed to 467 for grounding and bonding



Model	Color	Wire Combination Ranges		Qty.	Cat. No.
65	Purple	1 #10 Al solid w/1 or 2 #10 Cu solid 1 #10 Al w/1 or 2 #12 Cu 2 #10 Al solid w/1 #12 Cu 1 #10 Al w/1 or 2 #14 Cu 2 #10 Al solid w/1 #14 Cu 2 #12 Al solid w/1 #10 Cu 1 #12 Al solid w/1 or 2 #10 Cu 1 #12 Al stranded w/1 or 2 #10 Cu solid 1 #12 Al w/1 or 2 #12 Cu 2 #12 Al solid w/1 #12 Cu	1 #12 Al w/1 or 2 #14 Cu 2 #12 Al solid w/1 #14 Cu 1 #10 Al w/1 or 2 #18 Cu 2 #10 Al solid w/1 #18 Cu 1 #12 Al w/1 or 2 #16 Cu 2 #12 Al solid w/1 #16 Cu 1 #10 Al w/1 or 2 #16 Cu 2 #10 Al solid w/1 #16 Cu 1 #12 Al w/1 or 2 #18 Cu 2 #12 Al solid w/1 #18 Cu	Card of 2	30-065
				Card of 10	30-765
				Card of 25	30-165
				Box of 100	30-265
				Carton of 1,000	30-365

Streetlight Kits



The IDEAL SLK™ Disconnect Fuse Kit is a waterproof breakaway safety device that de-energizes roadway lights, streetlights, parking lot lights, and other freestanding electrical fixtures in the event of a knockdown, or when the fixtures need maintenance. This helps protect first responders, bystanders, and service personnel from potentially life-threatening electrical shock hazards.

IDEAL worked directly with roadway installation electricians, DOT maintenance crews, and specifying engineers to find out what features would really make a difference. The result is an entirely new product that not only performs better but is easier to install and more robust than any other disconnect fuse kit on the market today.

Example Configurations

In-Line Fused (Hot)

One wire line, one wire load



In-Line Non-Fused (Neutral)

One wire line, one wire load



Y-Tap Fused (Hot)

Two wire line, one wire load



Y-Tap Non-Fused (Neutral)

Two wire line, one wire load



Dual In-Line Fused (Both Hot)

One wire line, one wire load



Paired In-Line Fused One Hot, One Neutral

One wire line, one wire load



▲ **SLK**
Demo Video ▲

Please contact IDEAL Customer Service at
800-435-0705 for specifications and
ordering details.

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