



Lockout/Tagout and Safety Products



The IDEAL Advantage



Training

IDEAL has developed a variety of training programs and materials to help electricians use products correctly and efficiently. For more details on the training programs available please contact IDEAL customer service or your local IDEAL Sales Representative.

- Lockout/Tagout Safety and Procedures
- Arc Flash Safety & 1000V Insulated Tools
- Test and Measurement
 - Basics of DMM Safety
 - Basics of Meters
 - Advance Meter Training
 - Basics Grounding Measurements
 - Basics of Insulation Testing
 - Basics of Power Quality

Complete Line of Safety and Electrical Products



Whether it's installing or trouble shooting electrical systems or data networks, IDEAL has the products that professionals need to get the job done.

- Lockout/Tagout
- Test & Measurement
- Wire Management
- Wire Connectors
- Fish Tape, Benders & Lubes
- Hand Tools
- Tool Bags and Totes
- DataComm

- Insulated Tools

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PRODUCT

PERFORMANCE

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Test and Measurement

FightSight [™] Clamp Meters	
Circuit Tracers	
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700 Series 4-in-1 Tester 28	
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nsulation Testers	
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Non-Contact Voltage Tester	
GFI Circuit Tester	

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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 Lockout	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	44-833
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.



Description		Cat. No.
Basic Plus Lockout/Tagout Kit		44-979
Kit 44-979 Includes all 44-970 PLUS:	Qty.	Cat. No.
Gate Valve Lockout	1	44-824
Ball Valve Lockout	1	44-820

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.



 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	

*Masterlock equivalent.

**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 Lockout	3	44-810
Universal 277V Breaker Lockout/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	44-830
Lockout Tags – Do Not Operate (striped)	5	44-833
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	2	44-783
Zipper Pouch	1	IA-3240

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

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

Lockout/Tagout Large Mouth Bag

- Ideal for both storage and portability of your lockout/tagout needs
- Top opens completely for easy access and re-inforced to hold itself open
- Durable multi-ply construction with removable shoulder strap

Description

Lockout/Tagout Embroidered Bag - 16 in. long

Lock Stations

- Integrated, one-piece molded construction eliminates loose parts
- Resilient polycarbonate material provides twice the heat resistance and quadruple the impact strength of typical stations
- Reinforced snap-lock clips provide easy padlock and hasp storage and removal
- Exclusive translucent cover protects contents
 - Lockable to prevent loss of valuable safety lockout pad locks. Recommend using a combination lock for simple access control

.

Innovative hinge holds cover open for easy product selection

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

TAGOUT

Cat. No.

44-980

LOCKOUT STATION

LOCKOUT STATION



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 Lockout	5	44-810
Universal Breaker/Single Pole Lockout	3	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	2	44-789
110V Plug Lockout	1	44-718
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 Breaker Lockout #44-809	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	3	44-783
Tool Box	1	IA-3241

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

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 Lockout	3	44-810
Universal Breaker/Single Pole Lockout	2	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	1	44-789
110V Small Plug Lockout	1	44-718
Ball Valve Lockout	1	44-820
1 in. Safety Lockout Hasp	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 Breaker Lockout #44-809	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Red Lockout Padlocks	4	44-916
Universal Multi-Pole Breaker Lockout	2	44-783
Tool Box	1	IA-3241

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



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" H x 14" W x 6" D		44-975
Kit 44-975 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Cleat for Universal Single-Pole Lockout	2	44-785
Universal Multi-Pole Breaker Lockout	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 Hasp	2	44-800
Red Safety Padlocks	4	44-916
100V Small Plug Lockout	1	44-718
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
Pnuematic Lockout	1	44-774
Cabinet w/two shelves	1	IA-4989

Description	Qty.	Cat. No.
Extra shelf	1	IA-4990

Machine Lockout Station

- Conveniently mounts on either a wall, machinery or table top
- Yellow acrylic station helps maintain a focal point for storing your plug lockout between usage applications



Description		Cat. No.
Machine Lockout/Tagout Station – 8-1/2" H x 8-	-1/2" W x 4" D	44-976
Kit 44-976 Includes:	Qty.	Cat. No.
Red Safety Padlock	1	44-916
220/550V Plug Lockout	1	44-819
Lockout Tag – Do Not Operate	2	44-849
Machine Lockout Tagout Board only	1	IA-4991

Circuit Breaker Lockout Station



Comply with article 430.102B of the 2002 NEC

Polystyrene board is designed to be mounted on or near electrical breaker boxes for instant, easy access

Description		Cat. No.
Circuit Breaker Lockout/Tagout Station – 8" H x 6-	-1/4" W x 2-3/4" D	44-977
Kit 44-977 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Universal Multi-Pole Breaker Lockout	2	44-783
Lockout Tag – Do Not Operate	5	44-849
Red Safety Padlock	1	44-916
Circuit Breaker Lockout/Tagout only	1	IA-4992

Micro Lockout Station

- Compact design can be mounted on or close by your lockout job
- Holds just the necessary equipment to do a specific job/function



Description		Cat. No.
Micro Lockout Station - 8" H x 6-1/4" W x 2-3/4" D		44-978
Kit 44-978 Includes:	Qty.	Cat. No.
1 in. Safety Lockout Hasp	1	44-800
Red Safety Padlock	1	44-916
Lockout Tags – Do Not Operate	2	44-849
Micro Lockout/Tagout Board only	1	IA-4993



Lockout/Tagout Training Programs and **Compliance Manuals**

Lockout/Tagout Video Training Program for Employee Safety and OSHA Compliance.

- 10-minute video effectively conveys the importance of Lockout/Tagout in the workplace.
- Demonstrates the seven steps to properly apply and five steps to re-energize from Lockout/Tagout
- Provides instructions for maintaining Lockout/Tagout during shift changes
- · Shows how to apply, remove and maintain lockout devices
- · Also suitable for employee-refresher training sessions
- Includes video, ten Lockout/Tagout Procedure Employee Reference Cards, instructor's guide and employee quiz
- Additional Employee Reference Cards also available (44-954)

Compliance Manual to assist your facility in complying with Federal Lockout/Tagout Regulations

- 1 Reviews the OSHA Standard in understandable, everyday language
- 2 Provides a step-by-step program to help you develop your
- "Lockout/Tagout" Compliance Program
- 3 Outlines the type of information required for employee training

The Real, Real Life Lockout/Tagout Training Video

1 - Information you and your employees need to assist you in complying with OSHA's Lockout/Tagout Standards presented in an easy to understand and entertaining format

2 - This video comes in a plastic storage case and includes a leaders guide, training handbook with quiz, and wallet card reminder of the six steps to "Lock It and Tag It."



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Real, Real Life Lockout/Tagout Handbooks, 10/pack

44-953



Universal 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.

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

Circuit Breaker Lockout Station

Polystyrene board is designed to be mounted on or near electrical breaker boxes for instant, easy access



Description		Cat. No.
Circuit Breaker Lockout/Tagout Station – 8" H x 6-	-1/4" W x 2-3/4" D	44-977
Kit 44-977 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	2	44-810
Universal Single-Pole Breaker Lockout	2	44-809
Universal Multi-Pole Breaker Lockout	2	44-783
Lockout Tag – Do Not Operate	5	44-849
Red Safety Padlock	1	44-916
Circuit Breaker Lockout/Tagout only	1	IA-4992

Comply with article 430.102B of the 2002 National Electric Code.

Single-Pole Breaker Lockout



- Unique screw clamp design works well with most single-pole breakers
- Snap on cleat accessory securely locks out long sliding switch throws with large angular rotation commonly found on some Westinghouse, ITE, Square D and Federal Pacific breakers
- Please see breaker guide for your application

Description	Qty./Card	Cat. No.
Universal Single-Pole Breaker Lockout	3	44-809
Cleat for Single-Pole Breaker Lockout	3	44-785

Hinged Single-Pole Breaker Lockout



- 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

Description	Qty./Card	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810



Single-Throw/Multi-Pole Breaker Lockout

Large Breaker Lockout



- 480/600V lockout device designed primarily for Square D single-throw/multi-pole circuit breaker switches
- Snap-on cleat accessory securely locks out long sliding switch throws with large angular rotation commonly found on some Westinghouse, ITE, Square D and Federal Pacific breakers
- Please see breaker guide for your application

Description	Qty.	Cat. No.
Single-Throw/Multi-Pole Breaker Lockout	1	44-807
Cleat for Single-Throw/Multi-Pole Lockout	1	44-786

Oversized Circuit Breaker Lockout System



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



- 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

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

To comply with:

"The provisions for locking or adding a lock to the disconnecting means shall be permanently installed on or at the switch or circuit breaker used as the disconnecting means." Article 430.102(B) Motor 2002 NEC.

- 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



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Manufacturer	Model	Classification	Poles	LO	Cleat
Airpax	Airpax	Glassification	Poles	Device 44-809	Number 44-785
American Switch	C		1	44-809	44-700
	Ŭ			44-764	
				44-768	
Bryant	BR		1	44-810	
				44-809 44-764	
Bryan	BC		2-3	44-783	
Challenger	С		1	44-810	
				44-809	
Challanger	С	Type C	2-3	44-764 44-783	
Challenger	U	Type C	2-3	44-763 44-764	
Challenger	CDK	Same as W DK		44-807	
Challenger	LM		1	44-809	
				44-764	
Challenger	NEJ		1-2	44-809 44-764	44-785
Crouse Hinds	MP		2	44-783	
			-	44-764	
Cutler-Hammer	BA		1	44-809	
0.11.11	DAD	0.111		44-764	
Cutler-Hammer	BAB	Quicklag	1	44-810 44-809	
				44-009	
Cutler-Hammer	BAB	Quicklag	2-3	44-783	
Cutler-Hammer	BD	BR	1	44-810	
				44-809	
Cutler-Hammer	BR	BR	1	44-764 44-810	
Guller-Hallinei	DIT	DI	1	44-809	
				44-764	
Cutler-Hammer	BR	BR	2-3	44-783	
Cutles Llemmer	וותם	DD	4	44-764	
Cutler-Hammer	BRH	BR	1	44-810 44-809	
				44-764	
Cutler-Hammer	BRH	BR	2-3	44-783	
A				44-764	
Cutler-Hammer	BRHH	BR	2	44-783 44-764	
Cutler-Hammer	СН	СН	1	44-704	
				44-809	
				44-768	
Cutler-Hammer	CU	CU	0.0	44-764	
Culler-Hammer	СН	СН	2-3	44-783 44-764	
Cutler-Hammer	CH2	СН	4	44-783	
				44-764	
Cutler-Hammer	CHB	СН	1	44-810	
				44-809 44-768	
				44-768 44-764	
Cutler-Hammer	CHB	СН	2-3	44-783	
				44-764	
Cutler-Hammer	CHKD	K-Frame	2-3	44-807	
Cutler-Hammer Cutler-Hammer	CHLD CHMDL	L-Frame M-Frame	2-4 2-3	44-823 44-823	
Cutler-Hammer	CHND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	CHP	СН	1	44-810	
				44-809	
				44-768 44-764	
Cutler-Hammer	СНР	СН	2-3	44-764 44-783	
	Uni	UII	2.5	44-764	
Cutler-Hammer	CHQ	СН	1	44-810	
				44-809	
				44-768 44-764	
Breaker recommendation					

IDEAL IDEAL Cleat Number LO Manufacturer Model Classification Poles Device Cutler-Hammer CHQ СН 2 44-783 44-764 Cutler-Hammer CHSW СН 2-3 44-783 44-764 Cutler-Hammer CKD K-Frame 2-3 44-807 44-810 Cutler-Hammer CL CL 1 44-809 44-768 44-764 Cutler-Hammer CL CL 2 44-783 44-764 Cutler-Hammer CLD L-Frame 2-4 44-823 CLDC 2-4 44-823 Cutler-Hammer L-Frame Cutler-Hammer CMDL M-Frame 2-3 44-823 N-Frame 2-4 44-807 44-786 Cutler-Hammer CND Cutler-Hammer CNDC N-Frame 2-4 44-807 44-786 Cutler-Hammer CSR СН 44-809 1 44-764 DK K-Frame 44-807 Cutler-Hammer 2-3 Cutler-Hammer E125B E125-Frame 44-809 44-764 Cutler-Hammer E125E E125-Frame 44-809 44-764 Cutler-Hammer E125H E125-Frame 44-809 44-764 44-809 Cutler-Hammer E125S E125-Frame 44-764 Cutler-Hammer ED F-Frame 44-809 2-4 44-764 Cutler-Hammer EDC F-Frame 2-4 44-809 44-764 Cutler-Hammer F-Frame 44-809 EDH 2-4 44-764 44-809 Cutler-Hammer EFH E125-Frame 1-4 44-764 Cutler-Hammer EGB E125-Frame 1-4 44-809 44-764 Cutler-Hammer EGE E125-Frame 1-4 44-809 44-764 Cutler-Hammer EGS E125-Frame 1-4 44-809 44-764 Cutler-Hammer EHC 44-809 44-764 Cutler-Hammer EHD F-Frame 1-4 44-809 44-764 Cutler-Hammer FB Tri Pac Cur. Lim 2-3 44-809 44-785 44-764 Cutler-Hammer FC 44-809 44-764 F-Frame 44-809 Cutler-Hammer FD 1-4 44-764 Cutler-Hammer F-Frame FDB 2-4 44-809 44-764 Cutler-Hammer FDC F-Frame 2-4 44-809 44-764 Cutler-Hammer FS F-Frame 2-3 44-764 Cutler-Hammer GB G-Frame 1-3 44-809 44-764 Cutler-Hammer GC G-Frame 1-3 44-809 44-764 Cutler-Hammer GD G-Frame 1-3 44-809 44-764 Cutler-Hammer G-Frame 44-809 GDB 1-3 44-764 Cutler-Hammer GHB G-Frame 1-3 44-809 44-764 Cutler-Hammer GHBGFEP G-Frame 1 44-809 44-764 Cutler-Hammer GHC G-Frame 1-3 44-809 44-764



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Manufacturer	Model	Clossification	Deles	LO	Cleat
Cutler-Hammer		Classification G-Frame	Poles	Device	Number
Gutter-Hammer	GHCGFEP	G-Frame		44-809 44-764	
Cutler-Hammer	HBAW	Quicklag	1	44-810	
		g		44-809	
				44-764	
Cutler-Hammer	HBAW	Quicklag	2-3	44-783	
Cutler-Hammer	HBAX	Quicklag	1	44-810	
				44-809	
Cutler-Hammer	HBAX	Ouiskies	0.0	44-764	
Cutler-Hammer	HBAX	Quicklag	2-3 1-4	44-783 44-809	
Gutter-Hammer	TILD		1-4	44-009	
Cutler-Hammer	HGHB	G-Frame	1	44-809	
				44-764	
Cutler-Hammer	HGHC	G-Frame	1	44-809	
				44-764	
Cutler-Hammer	HJD		2-4	44-807	
Cutler-Hammer	HKD	K-Frame	2-4	44-807	
Cutler-Hammer	HLD	L-Frame	2-4	44-823	
Cutler-Hammer Cutler-Hammer	HMCP HMCP	L-Frame J-Frame	3	44-823 44-807	
Cutler-Hammer	HMCP	K-Frame	3	44-807	
Cutler-Hammer	HMCP	L-Frame	3	44-823	
Cutler-Hammer	HMCP	F-Frame	3-4	44-809	
Cutler-Hammer	HMDL	M-Frame	2-3	44-823	
Cutler-Hammer	HMDLB	M-Frame	2-3	44-823	
Cutler-Hammer	HND	N-Frame	2-4	44-807	44-786
Cutler-Hammer	HQP	Quicklag Type P	1	44-810	
				44-809	
0.11.11	1105	0.111 T D	0	44-764	
Cutler-Hammer Cutler-Hammer	HQP JD	Quicklag Type P J-Frame	2 2-4	44-783 44-807	
Cutler-Hammer	JDB	J-Frame	2-4	44-807	
Cutler-Hammer	JDC	J-Frame	2-4	44-807	
Cutler-Hammer	KD	K-Frame	2-4	44-807	
Cutler-Hammer	KDB	K-Frame	2-4	44-807	
Cutler-Hammer	KDC	K-Frame	2-4	44-807	
Cutler-Hammer	LA	Tri Pac Cur. Lim	2-3	44-807	
Cutler-Hammer	LD	L-Frame	2-4	44-823	
Cutler-Hammer	LDB	L-Frame	2-3	44-823	
Cutler-Hammer Cutler-Hammer	LDC LH	L-Frame	2-4 3	44-823 44-807	
Cutler-Hammer	LHB		3	44-807	
Cutler-Hammer	LID	Type CC	J	44-764	
Cutler-Hammer	MA	1390 00	2-3	44-807	44-786
Cutler-Hammer	MC		2-3	44-807	44-786
Cutler-Hammer	MD	M-Frame	2-3	44-823	
Cutler-Hammer	MDL	M-Frame	2-3	44-823	
Cutler-Hammer	MDS	M-Frame	2-3	44-823	
Cutler-Hammer	NB	Tri Pac Cur. Lim	2-3	44-823	44 700
Cutler-Hammer	NDC	N-Frame	2-4	44-807	44-786
Cutler-Hammer Cutler-Hammer	NDC OPTIM	N-Frame N-Frame	2-4 3	44-807 44-807	44-786 44-786
Cutler-Hammer	PB	Tri Pac Cur. Lim	2-3	44-823	44-700
Cutler-Hammer	QBGF	Quicklag	1	44-023	
Cutler-Hammer	QBGF	Quicklag	2	44-764	
Cutler-Hammer	QBGFEP	Quicklag	1	44-809	
Cutler-Hammer	QBGFEP	Quicklag	2	44-764	
Cutler-Hammer	QBHGF	Quicklag	1	44-809	
Cutler-Hammer	QBHGFEP	Quicklag	1	44-809	
Cutler-Hammer	QBHW	Quicklag	1	44-810	
Cutlor Hommer	ODUNA	Outidule	0.0	44-764	
Cutler-Hammer Cutler-Hammer	QBHW	Quicklag	2-3 1	44-783 44-810	
outier-rid[]][][e]	QC	Quicklag Type P		44-810 44-809	
				44-009	
Cutler-Hammer	QC	Quicklag Type P	2-3	44-783	
		5 71.1		44-764	

Breaker recommendation chart is for reference only.	Security of fit should be verified.
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				IDEAL LO	IDEAL Cleat
Manufacturer	Model	Classification	Poles	Device	Number
Cutler-Hammer	QCD	Quicklag Type P	1	44-810	
				44-809	
				44-764	
Cutler-Hammer	QCD	Quicklag Type P	2-3	44-783	
				44-764	
Cutler-Hammer	QCGF	Quicklag	1	44-809	
Cutler-Hammer	QCGFEP	Quicklag	1	44-809	
Cutler-Hammer	QCHGF	Quicklag	1	44-809	
Cutler-Hammer	QCHGFEP	Quicklag	1	44-809	
Cutler-Hammer	QCHW	Quicklag	1	44-810	
				44-809	
				44-764	
Cutler-Hammer	QCHW	Quicklag	2-3	44-783	
				44-764	
Cutler-Hammer	QHCX	Quicklag	1	44-810	
				44-809	
				44-764	
Cutler-Hammer	QHCX	Quicklag	2-3	44-783	
				44-764	
Cutler-Hammer	QHPW	Quicklag	1	44-810	
				44-809	
				44-764	
Cutler-Hammer	QHPW	Quicklag	2-3	44-783	
Cutler-Hammer	QHPX	Quicklag	1	44-810	
				44-809	
				44-764	
Cutler-Hammer	QHPX	Quicklag	2-3	44-783	
Cutler-Hammer	QPGF	Ground Fault	1	44-809	
Cutler-Hammer	QPGF	Ground Fuar	2	44-764	
Cutler-Hammer	QPGFEP	Ground Fault	1	44-809	
Cutler-Hammer	QPGFEP	Ground Faan	2	44-764	
Cutler-Hammer	QPHGF	Ground Fault	1	44-809	
Cutler-Hammer	QPHGFEP	Ground Fault	1	44-809	
Cutler-Hammer	QPHW	Quicklag	1	44-810	
Guller-Hammer	QEIIW	QUICKIAY	1	44-810	
				44-609 44-764	
Cutler-Hammer	OPHW	Quicklog	2-3	44-783	
Fed. Pacific Elec.	BAB	Quicklag	2-3	44-703	
reu. Facilic Elec.	DAD		I	44-009 44-764	
Fod Desilis Flag	Turne NIA		4		
Fed. Pacific Elec.	Type NA		1	44-809	44-786
Fed. Pacific Elec.	NA-single		3	44-807	44-780
E.J. D. W. El.	NA 4's have		0	44-764	
Fed. Pacific Elec.	NA-tie bar		2	44-764	44 705
Fed. Pacific Elec.	NB		1	44-809	44-785
F. J. D	T., ND		0	44-764	
Fed. Pacific Elec.	Type NB		2	44-783	
Fed. Pacific Elec.	Type NB		3	44-807	
Fed. Pacific Elec.	Type NASW		1	44-809	
Fed. Pacific Elec.	NEJH/HEJ		3	44-809	
Fed. Pacific Elec.	NBH GFI		1	44-809	
				44-764	
Fed. Pacific Elec.	NE/NEF			44-809	44-785
Fed. Pacific Elec.	NEJ			44-809	44-785
Fed. Pacific Elec.	NFJ			44-809	
Fed. Pacific Elec.	NJJ			44-807	
Fed. Pacific Elec.	NJL			44-807	
Fed. Pacific Elec.	NM			44-807	
Fed. Pacific Elec.	NP-single		1	44-809	
				44-764	
Frank Adams Elec. Co.	Р	FA Quicklag	1	44-809	
		-		44-764	
Frank Adams Elec. Co.	Toggle		1	44-809	
Frank Adams Elec. Co.	BG		1	44-809	
Frank Adams Elec. Co.	BA		1	44-809	
General Electric	HQC	Type C	3	44-809	
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5	44-764	
General Electric	SED	SE150	2-3	44-809	
	ULD	02100	20	44-764	
General Electric	SEH	SE150	2-3	44-809	

				IDEAL Lo	IDEAL Cleat
Manufacturer	Model	Classification	Poles	Device	Number
General Electric	SEL	SE150	2-3	44-809 44-764	
General Electric	SEP	SE150	2-3	44-809	
General Electric	SFH	SF250	2-3	44-764 44-809	
	3111	31 2 30	2-0	44-009	
General Electric	SFL	SF250	2-3	44-809	
General Electric	SFP	SF250	2-3	44-764 44-809	
General Electric	TD4	T. Durali		44-764	44 705
General Electric	TB1	Tri Break		44-809 44-764	44-785
General Electric	TB4	Tri Break		44-809	44-785
General Electric	TB6	Tri Break		44-764 44-809	44-785
				44-764	
General Electric	TB8	Tri Break		44-809 44-764	44-785
General Electric	TBC4	Mag Break		44-809	44-785
General Electric	TBC6	Mag Break		44-764 44-809	44-785
		Ť		44-764	
General Electric	TBC8	Mag Break		44-809 44-764	44-785
General Electric	TE	E150	1-3	44-809	44-785
General Electric	TEB	E150	1-3	44-764 44-809	44-785
	ILD	LIJU	1-0	44-009	44-700
General Electric	TED	E150	1-3	44-809 44-764	44-785
General Electric	TEF		1-3	44-809	44-785
General Electric	TEL	E150	3	44-764 44-809	44-785
	ICL	EIDU	3	44-609 44-764	44-700
General Electric	TEML	Mag Break	3	44-809	44-785
General Electric	TEY	E150	1-3	44-764 44-809	
General Electric	те	FIED	1.0	44-764	
General Electric	TF	E150	1-3	44-809 44-764	
General Electric	TFC	Mag Break	3	44-809	
General Electric	TFJ	F225	2-3	44-764 44-807	
General Electric	TFK	F225	2-3	44-807	
General Electric	TFL	F225	3	44-807	44.705
General Electric	THED	Like TED	1-3	44-809 44-764	44-785
General Electric	THEF	Like TED		44-809 44-764	44-785
General Electric	THFJ		2, 3	44-704 44-807	
General Electric	THFK	F225	2-3	44-807	
General Electric	THHQB	Q Line	2-3	44-783 44-764	
General Electric	THHQB-A	Q Line	1	44-810	
				44-809 44-764	
General Electric	THHQB-S	Q Line	1	44-704	
General Electric	ТННQС	Q Line	1-3	44-764 44-783	
	i i i i i i i i i i i i i i i i i i i		10	44-763 44-764	
General Electric	THHQC-A	Q Line	1	44-810 44-809	
				44-809 44-764	
General Electric	THHQC-S	Q Line	1	44-809	
General Electric	THHQL	Q Line	2-3	44-764 44-783	
General Electric		Q Line	1	44-764	
	THHQL-A	Q LINE		44-810 44-809	
				44-764	

Monufacturer	Medel	Classification	Delee	IDEAL LO	IDEAL Cleat
Manufacturer	Model	Classification	Poles	Device	Number
General Electric	THHQL-S	Q Line	1	44-809	
Caparal Flashria	TITIZA	0001	0.0	44-764	44 700
General Electric	THJK4	J600	2-3	44-807	44-786
General Electric	THJK6	J600	2-3	44-807	44-786
General Electric	THKM12	K1200	2-3	44-823	
General Electric	THKM8	K1200	2-3	44-823	
General Electric	THLC1	THLC Current Limiting		44-809	
General Electric	THQB	Q Line	2, 3	44-783 44-764	
General Electric	THQB-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQB-S	Q Line	1	44-809 44-764	
General Electric	THQC	Q Line	2-3	44-783 44-764	
General Electric	THQC-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQC-AL	Q Line	2-3	44-783 44-764	
General Electric	THQC-S	Q Line	1	44-704 44-809 44-764	
General Electric	THOD	Q Line	2-3		
General Electric	IHQD	ų Line	2-3	44-809 44-807 44-764	
General Electric	THQDBL	Q Line	3	44-764	
General Electric	THQL	Q Line	2-3	44-783 44-764	
General Electric	THQL-A	Q Line	1	44-810 44-809 44-764	
General Electric	THQL-S	Q Line	1	44-809 44-764	
General Electric	TJ4		3	44-807	
General Electric	TJC	Mag Break	Ū	44-809 44-807 44-764	
General Electric	TJD	TJD432400WL	2-3	44-807	44-786
General Electric	TJJ	J600	2-3	44-807	44-786
General Electric	TJK4	J600	2-3	44-807	44-786
			2-3		
General Electric	TJK6	TJK636F000	2-3	44-807	44-786
General Electric	TJS	TJS3604S		44-807	44-786
General Electric General Electric	TK4V TKC	MicroVersaTrip Mag Break	3 3	44-807 44-809 44-764	44-785
General Electric	TKM4	TKM4365000		44-704	
General Electric	TKM4 TKM8		2-3	44-023	
General Electric		K1200	2-3		
General Electric General Electric	TKMA8 TQB	Q Line	3 2-3	44-823 44-783	
General Electric	TQB-A	Q Line	1	44-764 44-810 44-809	
General Electric	TQB-S	Q Line	1	44-764 44-809 44-764	
General Electric	TQC	Q Line	2-3	44-764 44-783 44-764	
General Electric	TQC-A		1	44-764 44-810 44-809 44-764	
General Electric	TQC-S		1	44-764 44-809 44-764	
General Electric	TQD	Q Line	2-3	44-704	
General Electric	TQL		2-3	44-809	
General Electric General Electric	TQL-A	Q Line	2, 3	44-783 44-810 44-809	
General Electric	TQL-S	Q Line	1	44-764 44-809 44-764	





				IDEAL LO	IDEAL Cleat
Manufacturer	Model	Classification	Poles	Device	Number
Heinemann	SMG4		1	44-809	
Heinemann	AMIZ		1	44-809	
Heinemann	KU		1	44-809	
Heinemann	KL		1	44-809	
Heinemann	LB		1	44-809	44-785
Heinemann	LF		1	44-809	44-785
Heinemann	LJ		1	44-809	44-785
Merlin Gerin	CJ	400 Amp corioo	3		44-785
		400 Amp series		44-807	44-700
Siemens ITE	BL		1	44-810 44-809 44-768 44-764	
Siemens ITE	BL		2-3	44-783 44-764	
Siemens ITE	BLF-GFI		2	44-783	
Siemens ITE	BLH		1	44-764 44-810 44-809	
Siemens ITE	BLH		2-3	44-764 44-783	
				44-764	
Siemens ITE	BQ		1	44-810 44-809 44-764	
Siemens ITE	BQ		2-3	44-783 44-764	
Siemens ITE	BQCH		1-3	44-809 44-764	
Siemens ITE	BQD		1-3	44-809 44-764	
Siemens ITE	BQD6		1-3	44-809 44-764	
Siemens ITE	BQH		1	44-810 44-809	
Siemens ITE	BQH		2-3	44-764 44-783 44-764	
Siemens ITE	CED6		2-3	44-809 44-764	
Siemens ITE	CFD6		2-3	44-807	44-786
Siemens ITE	CFD6-ETI		2-3	44-807	44-786
Siemens ITE	CJ3		2.0	44-807	100
Siemens ITE	CJD6		0.0		
			2-3	44-807	
Siemens ITE	CJD6-ETI		2-3	44-807	
Siemens ITE	CLF		2	44-807	44-786
Siemens ITE	CMD6		3	44-823	
Siemens ITE	CMD6-ETI		3	44-823	
Siemens ITE	CND6		3	44-823	
Siemens ITE Siemens ITE	CPD6 CQD		3 1-3	44-823 44-809 44-764	44-785
Siemens ITE	E2			44-809 44-764	
Siemens ITE	E4		1	44-809 44-764	
Siemens ITE	ED2		1-3	44-809 44-764	
Siemens ITE	ED4		1-3	44-809 44-764	
Siemens ITE	ED6		1-3	44-809 44-764	
Siemens ITE	ED6-ETI		3	44-809 44-764	
Siemens ITE	EE3			44-809	44-785
Siemens ITE	EE		1, 2, 3	44-809	44-785
Siemens ITE	EH		1, 2, 3	44-809	44-785
Siemens ITE	ET-JJ		3	44-807	44-786
Siemens ITE	QJ3B		2, 3	44-809	44-785
Siemens ITE	QJ22B QJ23B		2, 3	44-809	44-785
Siemens ITE			2, 3	44-809	44-785

				IDEAL	IDEAL
Manufacturer	Model	Classification	Poles	LO Device	Cleat Number
Siemens ITE	QJH22B		2, 3	44-809	44-785
Siemens ITE	QJH22B		2, 3	44-809	44-785
Siemens ITE	EE3		2, 3	44-809	44-785
	LLU			44-764	105
Siemens ITE	EH3			44-704	44-785
SIGNIENS TIE	EHS			44-809	44-700
Siemens ITE	EQP		4	44-764	
SIGILIEUS LLE	EUP		4	44-763 44-764	
Ciamana ITE	гт	E Eromo			44 705
Siemens ITE	ET	F-Frame		44-809	44-785
Ciamana ITE	EDGA		0.0	44-764	44 700
Siemens ITE	FD6A		2-3	44-807	44-786
Siemens ITE	FJ2-B		2-3	44-809	44-785
				44-807	44-786
Siemens ITE	FJ3		2	44-807	
Siemens ITE	FJ6		2	44-807	44-786
Siemens ITE	FXD6A		2-3	44-807	44-786
Siemens ITE	FXD6-ETI		2-3	44-807	44-786
Siemens ITE	GF		1	44-809	
				44-764	
Siemens ITE	HBL		1	44-810	
				44-809	
				44-764	
Siemens ITE	HBL		2-3	44-783	
				44-764	
Siemens ITE	HBQ		1	44-810	
				44-809	
				44-764	
Siemens ITE	HBQ		2-3	44-783	
OIGHIGHS ITE	TIDQ		20	44-764	
Siemens ITE	HE4			44-809	
SIGNIENS ITE	TIE4			44-809	
Siemens ITE	HED4		1-3	44-764	
SIGNIENSTIE	NED4		1-5		
0: ITE	LIEDA		0.0	44-764	
Siemans ITE	HED6		2-3	44-809	
AL 175	1155.0			44-764	
Siemens ITE	HFD6		2-3	44-807	44-786
Siemens ITE	HFXD6		2-3	44-807	44-786
Siemens ITE	HHED6		2-3	44-809	
				44-764	
Siemens ITE	HHFD6		2-3	44-807	44-786
Siemens ITE	HHJD6		2-3	44-807	
Siemens ITE	HHJXD6		2-3	44-807	
Siemens ITE	HJD6		2-3	44-807	
Siemens ITE	HJD6-A		2-3	44-807	
Siemens ITE	HJXD6		2-3	44-807	
Siemens ITE	HJXD6-A		2-3	44-807	
Siemens ITE	HMD6		2-3	44-823	
Siemens ITE	HMXD6		2-3	44-823	
Siemens ITE	HND6		2-3	44-823	
Siemens ITE	HNXD6		2-3	44-823	
Siemens ITE	HPD6		3	44-823	
Siemens ITE	HPXD6		3	44-823	
Siemens ITE	HQJ2-H		3	44-809	
			Ē	44-764	
Siemens ITE	HQP		1	44-810	
				44-809	
				44-764	
Siemens ITE	HQP		2-3	44-783	
G.GINONO TTE	1100		20	44-764	
Siemens ITE	HQPP		1	44-810	
Giornona TTE	nun			44-809	
				44-809 44-764	
Ciamone ITF			0.0		
Siemens ITE	HQPP		2-3	44-783	
Ciamana ITE	LIADDU		0	44-764	
Siemens ITE	HQPPH		2	44-783	
0. 175	11000		6	44-764	
Siemens ITE	HRD6		3	44-823	
Siemens ITE	HRXD6		3	44-823	
Siemens ITE	JD6-A		2-3	44-807	
Siemens ITE	JJ3			44-807	

				IDEAL Lo	IDEAL Cleat
Manufacturer	Model	Classification	Poles	Device	Number
Siemens ITE	JL3		3	44-807	
Siemens ITE	JXD2-A		2-3	44-807	
				44-823	
Siemens ITE	JXD6-A		2-3	44-807	
				44-823	
Siemens ITE	LL3			44-807	
Siemens ITE	MD6		2-3	44-823	
Siemens ITE	MXD6		2-3	44-823	
Siemens ITE	MXD6-ETI		2-3	44-823	
Siemens ITE	ND6		2-3	44-823	
Siemens ITE	NXD6		2-3	44-823	
Siemens ITE	PD6		3	44-823	
Siemens ITE	PXD6		3	44-823	
Siemens ITE	QJ2		2-3	44-809	44-785
				44-764	
Siemens ITE	QJ2-H		2-3	44-809	44-785
				44-764	
Siemens ITE	QJH2		2-3	44-809	44-785
				44-764	
Siemens ITE	QP		1	44-810	
				44-809	
				44-764	
Siemens ITE	QP		2-3	44-783	
				44-764	
Siemens ITE	QP1		1	44-809	
				44-764	
Siemens ITE	QPH		1	44-810	
				44-809	
				44-764	
Siemens ITE	QPH		2-4	44-783	
				44-764	
Siemens ITE	QPP		1	44-810	
				44-809	
				44-764	
Siemens ITE	QPP		2-3	44-783	
				44-764	
Siemens ITE	QPPH		1	44-810	
				44-809	
				44-764	
Siemens ITE	QPPH		2-3	44-783	
				44-764	
Siemens ITE	RD6		3	44-823	
Siemens ITE	RXD6		3	44-823	
Siemens ITE	SCMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SCND6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SHMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SMD6	Sol St Trip Ckt Bkr	3	44-823	
Siemens ITE	SND6	Sol St Trip Ckt Bkr	3	44-823	
Simplex	NX		3	44-807	44-786
Square D	EDB		1-3	44-809	
A B	505			44-764	
Square D	EGB		1-3	44-809	
Orman D	FUA		1.0	44-764	
Square D	EH4		1-3	44-809	
0 0	FUD			44-764	
Square D	EHB		1	44-809	
Omeran D	FUD		0.0	44-764	
Square D	EHB		2-3	44-783	
Cause D	E ID		1.0	44-764	
Square D	EJB		1-3	44-809	
Square D	E7		0	44-764	
Square D	EZ	100 Amo Frome	3	44-823	11 70E
Square D	FA	100 Amp Frame	1-3	44-809	44-785
Square D	FAL	100 Amp Frame	1-3	44-809	44-785
Square D	FC	100 Amp Frame	3	44-809	44-785
Square D	FCL	100 Amp Frame	2-3	44-809	44-785
Square D	FDA	FDA 34040		44-809	
Square D	EU	100 Amp Frome	1.0	44-764	AA 70E
Square D Square D	FH	100 Amp Frame	1-3 1-3	44-809	44-785
	FIL	100 Amp Frame	1-3	44-809	44-785

Breaker recommendation chart is for reference only.	Security of fit should be verified.
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Manufacturer	Model	Classification	Poles	IDEAL LO Device	IDEAL Cleat Number
Square D	FHL-DC	100 Amp Frame	3	44-809	44-785
Square D	FI	100 Amp Frame	3	44-809	44-785
Square D	FIL	100 Amp Frame	3	44-809	44-785
Square D	FY	100 Amp Frame	1	44-809	44-785
Square D	GJL	Mag Gard	3	44-809	44-785
Square D	KA	250 Amp Frame	2-3	44-809	44-785
Square D	KAL	Loo / imp i famo	2-3	44-809	44-785
Square D	KAP		2-0	44-807	44-703
		050 Ame Eromo	0.0		44.705
Square D	KC	250 Amp Frame	2-3	44-809	44-785
Square D	KCL		2-3	44-809	44-785
Square D	KH	250 Amp Frame	2-3	44-809	44-785
Square D	KHL		3	44-809	44-785
Square D	KI	250 Amp Frame	2-3	44-809	44-785
Square D	KIL	250 Amp Frame	2-3	44-809	44-785
Square D	LA	400 Amp Frame	2-3	44-807	44-786
Square D	LAL		2-3	44-807	44-786
		400 Arra Errara		44-823	
Square D	LH	400 Amp Frame	2-3	44-807	44-786
Square D	LHL		3	44-807	44-786
				44-823	
Square D	LHP			44-807 44-823	44-786
Square D	MA		3	44-823	
Square D	MA	1000 Amp Frame	2-3	44-023	44-786
		TOUD AITLY FIAITLE			44-700
Square D	MAL	1000 4	3	44-823	44 700
Square D	MH	1000 Amp Frame	2-3	44-807	44-786
Square D	MHL		2-3	44-823	
Square D	ML-1		3	44-807	44-786
Square D	ML-3		3	44-823	
Square D	Q1B	250 Amp Frame	2-3	44-809 44-764	
Square D	Q1L	250 Amp Frame	2-3	44-809 44-764	
Square D	Q2	250 Amp Frame	2-3	44-809	44-785
Square D	Q2H	250 Amp Frame	2-3	44-809	44-785
Square D	Q2L	250 Amp Frame	2-3	44-809	44-785
Square D	Q2MT	250 Amp Frame	2-3	44-809	44-785
Square D	Q2IVIT Q4		2-3		44-786
1		400 Amp Frame		44-807	
Square D	Q4L	400 Amp Frame	2-3	44-807	44-786
Square D	QO	QO	1	44-768	
Square D	QO	QO	2-3	44-810 44-809 44-768 44-764	
Cauara D	000	00	4		
Square D	QOB	QO	1	44-768	
Square D	QOB	QO	2-3	44-810 44-809 44-768 44-764	
Square D	QOB-H	QO	2	44-768	
Square D	QOB-VH	QO	1	44-810 44-809	
				44-768	
Square D	QOB-VH	QO	2-3	44-783	
Square D	QO-H	QO	2	44-768	
Square D	QOM1-VH	Main Circuit	2	44-809	
Square D	QOM2-VH	Breaker QO Main Circuit	2	44-764 44-809	
Square D	QO-SWN	Breaker QO QO	2-3	44-764 44-810	
Oquaro D	QU UMA	QU	20	44-809 44-768 44-764	
Square D	QOU	DIN Rail Mount QO	1	44-768	
Square D	QOU	DIN Rail Mount QO	2-3	44-700	
JUDIE D	QUU	אויט naii widufil QU	2-3	44-768	
				44-764	
<u> </u>	0.000				
Square D	QOU w/tie	DIN Rail Mount QO	2-3	44-783 44-764	



				IDEAL	IDEAL
		o		LO	Cleat
Manufacturer	Model	Classification	Poles	Device	Number
Square D	QO-VH	QO	2-3	44-810 44-809	
				44-768	
				44-764	
Square D	QYU	DIN Rail Mount	1	44-768	
Square D	Y1 QC		2	44-807 44-783	
Sylvania GTE	QU		2	44-763 44-764	
Sylvania GTE	Type C		2	44-783	
.,	71			44-764	
Thomas & Betts	F Frame		1-3	44-809	
M	D.4			44-764	
Westinghouse	BA		1	44-810 44-809	
				44-809	
Westinghouse	BA		2-3	44-809	
Ť				44-783	
				44-764	
Westinghouse	BAB		1	44-810	
				44-809 44-764	
Westinghouse	BR		1	44-764	
Westinghouse	Dit			44-809	
				44-764	
Westinghouse	BR		2-3	44-783	
				44-764	
Westinghouse	BRH		2-3	44-783	44.705
Westinghouse Westinghouse	CA DA			44-809 44-807	44-785
Westinghouse	DA			44-807	
Westinghouse	EB		1-3	44-809	44-785
				44-764	
Westinghouse	ED			44-809	
Mastinghouse	FU		10	44-764	
Westinghouse	EH		1-3	44-809 44-764	
Westinghouse	EHB		1-3	44-809	44-785
Westinghouse	EHD		1-3	44-809	
				44-764	
Westinghouse	FA		3	44-809	44-785
Mastinghouse	FD		0.0	44-764	44-785
Westinghouse	FB		2-3	44-809 44-764	44-780
Westinghouse	FD		1-4	44-809	
				44-764	
Westinghouse	FDB		2-4	44-809	
	50.0			44-764	
Westinghouse	FDC		2-4	44-809 44-764	
Westinghouse	FP	For Fire Protection	3	44-704	44-786
Westinghouse	GB		1-3	44-809	11100
J.				44-764	
Westinghouse	GBH		1-3	44-809	
Westingh	0UD		4.0	44-764	
Westinghouse	GHB		1-3	44-809 44-764	
Westinghouse	GR		3	44-764	
Westinghouse	HBAW		1	44-810	
÷				44-809	
				44-764	
Westinghouse	HBAX		1	44-810	
				44-809 44-764	
Westinghouse	HCA		3	44-764 44-809	44-785
	110/1		0	44-764	
Westinghouse	HFB		1-3	44-809	44-785
				44-764	
Westinghouse	HFD		1-4	44-809	
				44-764	

				IDEAL	IDEAL
				LO	Cleat
Manufacturer	Model	Classification	Poles	Device	Number
Westinghouse	HKD		3	44-807	
Westinghouse	HLA			44-807	
Westinghouse	HLB HMC			44-807	
Westinghouse Westinghouse	HMCP			44-807 44-809	44-785
westinghouse	TIVIOF			44-009 44-764	44-700
Westinghouse	HNC			44-704	
Westinghouse	HQNP		3	44-025	
westinghouse	HQINI		5	44-009	
Westinghouse	HQP		1	44-810	
westinghouse	i i Gai		· ·	44-809	
				44-764	
Westinghouse	JA			44-807	
Westinghouse	JD		2-4	44-807	
Westinghouse	KA		3	44-807	44-786
Westinghouse	KB		0	44-807	11100
Westinghouse	LA		3	44-807	44-786
Westinghouse	LB		Ū	44-807	
Westinghouse	LBB		3	44-807	
Westinghouse	LH		Ű	44-807	
Westinghouse	MA		2-3	44-807	44-786
Westinghouse	MC		2-3	44-807	44-786
Westinghouse	MCC		2-3	44-807	44-786
Westinghouse	МСРО		3	44-809	44-785
litetinghoute	inor o		Ŭ	44-764	
Westinghouse	NB			44-823	
Westinghouse	Р		3	44-809	
			-	44-764	
Westinghouse	QBHW		1	44-810	
				44-809	
				44-764	
Westinghouse	QC		1	44-810	
J				44-809	
				44-764	
Westinghouse	QC	Quicklag C	3	44-783	
Westinghouse	QCHQ	0	1	44-810	
				44-809	
				44-764	
Westinghouse	QHCW		1	44-810	
-				44-809	
				44-764	
Westinghouse	QHCX		1	44-810	
				44-809	
				44-764	
Westinghouse	QHPW		1	44-810	
				44-809	
				44-764	
Westinghouse	QPHW		1	44-810	
				44-809	
				44-764	
Westinghouse	Quicklag P			44-809	
				44-764	
Westinghouse	RE			44-809	
				44-764	
Westinghouse	RH		3	44-807	
Westinghouse	WPHX		1	44-810	
				44-809	
				44-764	
Zinsco	HQB		3	44-809	
				44-764	
Zinsco	QB		1	44-809	
				44-764	
Zinsco	QCB		2	44-783	
				44-764	
Zinsco	Type Q		1	44-809	
				44-764	
Zinsco	Туре Т		1	44-809	
				44-764	

Circuit Breaker Lockout Systems



Without Integral Locks



- Use your own padlocks
- Recommend rail mounted on outside of panel to permit closure
- Panel door can close on 1/16", vinyl coated, galvanized cable (panel spacing gasket may be needed on panel doors w/tight clearances)

Lockouts for Square D and other breakers with a lever through hole

Description		Cat. No.
Starter Kit Panel Lock System – Integral Locks Square D		44-765
Kit 44-765 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
Square D NQO locking cables with integral lock*	2	44-766

Lockouts for Standard, Straight Lever Breakers

Description		Cat. No.
Starter Kit Panel Lock System – Integral Locks Standard		44-761
Kit 44-761 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
120/277V Locking Cables with Integral Lock*	2	44-762

Description:	Qty.	Cat. No.
High density, self-adhesive panel spacing gasket, 3/8 in. x 1 in. x 15 ft.	1	44-750

*Components can be ordered separately by the catalog number listed. They are packaged in quantities of one.

Comply with the NEW "Disconnecting Means" standard for motor, motor circuits and controllers in article 430.102B of the 2002 National Electric Code.

- Adhesive backed rails allow system to be permanently installed in or just outside of an electrical panel, putting all lockout items at the point of need.
- Lockout systems allow the panel door to be shut during lockout applications.
- Optional Panel Spacing Gasket enables panel doors with tight clearances to be closed during lockout.
- Kits available for standard 120-277 Volt Panels and SQ D NQO Series Panels
- Locks single and multiple pole breakers.

With Integral Locks



- Cables come with master lock base to fit cable key
- Locks are small enough to allow the panel door to be closed during lockout

Description		Cat. No.
Starter Kit Panel Lock System without Integral Locks Square D		44-767
Kit 44-767 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
Square D NQO locking cables without integral lock*	2	44-768

Description		Cat. No.
Starter Kit Panel Lock System without Integral Locks Standard		44-763
Kit 44-763 Includes:	Qty.	Cat. No.
4 in. Mounting Rail	1	44-769
120/277V Locking Cables without Integral Lock*	2	44-764



Miniature Circuit Breaker Lockouts for European-Style Breakers

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





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
	WMS	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
	SGLA		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

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

Pins Out Wide – #44-784









Universal Ball Valve Lockout



- Designed to lock out quarter turn valves of varying sizes and geometries
- Accommodates handle sizes to 1-1/14 in. thick x 1-5/8 in. wide
- Locks valves in on. off or throttled position
- Nylon and stainless steel construction

Description	Cat. No.
Small Universal Ball Valve Lockout w/ 1 in. x 3/4 in. handle	44-770
Large Universal Ball Valve Lockout w/ 1-5/8 in. x 1-1/4 in. handle	44-771

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



- 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 Xenoy thermoplastic bodies withstand chemicals; perform effectively in extreme conditions (temperature range -50°F (-46°C) to +350°F (177°C)

Valve Size	Qty./Pkg.	Cat. No.
1 in. to 3 in.	1	44-824
2 in. to 5 in.	1	44-825
4 in. to 6-1/2 in.	1	44-826
6 in. to 10 in.	1	44-827
8 in. to 13 in.	1	44-828
Set of five sizes (1 in. to 13 in.)		44-818

Pneumatic Lockout



- Isolates equipment from compressed air
- Fits C, D and E couplers
- Accommodates most 1/4 in., 3/8 in. and 1/2 in. fittings
- Accepts 1/4 in. or 9/32 in. padlock shackles
- Durable plastic construction

Description	Cat. No.
Pneumatic Lockout	44-774

1-800-435-0705 for Customer Service



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" dia. steel cable is insulated with a clear vinyl coating
- Tough, lightweight, dielectric Xenoy[®] 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

Cable Lockouts

- 44-829 Unique hasp lockout device accepts up to six 9/32 in. padlocks and comes with a 6 ft. plastic-coated steel cable
 44-781 (not shown), Red Impact modified nylon body with 6 ft., 1/8 in. galvanized steel cable
 Description
 Cable Lockout, 6 ft. cable
- Cable Lockout, 6 ft. cable Cable Lockout System (not shown), 6 ft. cable

Plug Lockouts

- Accommodate 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)



3-1/4 in. x 3-1/4 in. x 7 in.

44-781

44-819

Wall Switch Lockouts

- Our patent pending universal Wall Switch Lockout locks out both toggle and decora wall switches
- The universal design assures switch is locked on or off. It also hinges open for unobstructed normal switch operation
- The standard wall switch lockout fits most wallmounted single or threeway electrical switches



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

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
Electric Plug Lockout (keyed alike – key 8002)	44-8002

Fuse Blockout and Lockout Devices

- Highly visible fuse blockouts snap into blade-type fuse blocks to prevent installation of fuses
- Fuse lockout snaps easily into place and can be cable tied for added security
- Fit most Buss and Gould fuse blocks



Description	Qty./Card	Cat. No.
1/4, 9/32 and 9/16 in. Fuse Lockout	3	44-815
13/16 in., 1-1/6 in. and Blade Fuse Lockout	3	44-816
13/32 in. Fuse Lockout	3	44-813

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Description

Plug Lockouts - 110V

Plug Lockouts - 220/550V

Aluminum Safety Lockout Padlocks



- High visibility, baked-on powder coated finish stays bright
- Ideal for corrosive and tough environments
- Rekeyable bodies for easy key system maintenance
- Hardened shackles for superior resistance to cutting

Bumper Color	Cat. No.
Blue	44-920
Black	44-921
Red	44-922
Yellow	44-923

Steel Padlocks

- Rustproofed, steel case with nickel-plated shackle withstands abuse and environmental hazards
- Includes two keys

Red

Green

Yellow

1-1/2 in. wide lock with 9/32 in. shackle diameter

Keyed-alike and Master-Keyed

locks available by special order



Clearance

44-907

44-909

44-911

Bumper Color	3/4 In. Shackle Clearance Cat. No.	2 In. Shackle Cle Cat. No.
Blue	44-900	44-901
Black	44-902	44-903
White	44-904	44-905

44-906

44-908

44-910

Xenoy Safety Lockout Padlocks

- Dedicated safety lockout device reduces confusion with other locks
- Non-conductive, lightweight Xenoy[®] body
- 1-1/2 in. shackle clearance
- 1-1/2 in. wide lock with 1/4 in. shackle
- Four colors for easy identification
- Keyed alike and Master-Keyed locks available by special order

OUT DO NOT REMOTE

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

Lock Labels



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

Description	Cat. No.
Lock Labels	44-898

Marking Pens

- Fast-drying, permanent ink will not smear
- Use on write-on marker cards and write-on cable-tie marker plates
- Color-coded in red or black

Description	Cat. No.
Marking Pen w/black ink	41-697
Marking Pen w/red ink	41-698

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- High-visibility lettering
- Laminated plastic tags have non-fade legends, resist corrosive and harsh environmental conditions and a 7/8 in. grommet
- Vinyl tags are silk screened with a metal grommet; red tie fas-tener included
- Exceeds OSHA's 50-lb. pullout requirement

Legend	Туре	Qty.	Cat.No.
Do Not Operate	Heavy-Duty Laminated	Card of 5	44-830
Do Not Operate	Heavy-Duty Laminated	Box of 100	44-1830
Do Not Operate	Economy Vinyl	Bag of 25	44-848
Do Not Operate – Maintenance Department	Heavy-Duty Laminated	Card of 5	44-831
Do Not Operate – Maintenance Department	Economy Vinyl	Bag of 25	44-844
Do Not Operate – Electricians at Work	Heavy-Duty Laminated	Card of 5	44-832
Do Not Operate – Electricians at Work	Economy Vinyl	Bag of 25	44-843
Do Not Operate – (red striped background)	Heavy-Duty Laminated	Card of 5	44-833
Do Not Operate – (red striped background)	Heavy-Duty Laminated	Box of 100	44-1833
Do Not Operate (red striped background)	Economy Vinyl	Bag of 25	44-849
Do Not Operate – Lockout Steps Required	Heavy-Duty Laminated	Card of 5	44-835
Do Not Operate (Photo ID - Self Sealant)	Heavy-Duty Laminated	Card of 5	44-834

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

SAFET

Bilingual Lockouts and 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./Card	Cat. No.
Do Not Operate (striped)	5	44-841

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./Card	Cat. No.
1 in.	3	44-800
1-1/2 in.	2	44-801

Labeled Safety Lockout Hasps

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

www.idealindustries.com



Voltage and Conduit Markers

Large:

1 marker per card 2-1/4 in. x 9 in. each w/1-3/4 in. type

Medium:

Small:

18 markers per card

4 markers per card 1-1/8 in. x 4-1/2 in. each w/3/4 in. type



440 VOLTS

THREE PHASE THREE PHASE

THREE PHASE THREE PHASE

- 2-1/4 in. x 1/2 in. each w/5/16 in. type
- 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 provides long-lasting durability
- Resist abrasion, moisture, dirt and oil
- Non-smear, black legend on bright orange background for high visibility

Specifications:

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

Legend	Large Cat. No.	Medium Cat. No.	Small Cat. No.
120/208V	44-295	44-296	44-297
277/480V	44-298	44-299	44-300
110V	44-301	44-351	44-401
120V	44-303	44-353	44-403
208V	44-305	44-355	44-405
220V	44-306	44-356	44-406
230V	44-307	44-357	44-407
240V	44-308	44-358	44-408
277V	44-310	44-360	44-410
380V	44-311	44-361	44-411
440V	44-312	44-362	44-412
460V	44-313	44-363	44-413
480V	44-314	44-364	44-414
600V	44-317	44-367	44-417
2,400V	44-321	N/A	N/A
4,160V	44-322	N/A	N/A
13,800V	44-328	N/A	N/A
DANGER	44-289	N/A	N/A
HIGH VOLTAGE	44-292	N/A	N/A
SINGLE PHASE	44-340	44-390	44-440
THREE PHASE	44-342	44-392	44-442

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.



Recommended Signs – 44-896/44-897			
A WARNING			
Arc Flash and Shock Hazard Appropriate PPE Required			

Description	Туре	Size	Qty./Bag	Cat. No.
NEC Arc Flash, Warning	Self-Sticking Polyester	3-1/2 in. x 5 in.	5	44-892
NEC Arc Flash, Warning	Self-Sticking Polyester	5 in. x 7 in.	5	44-893
NEC Arc Flash, Danger	Self-Sticking Polyester	5 in. x 7 in.	5	44-894
NEC Arc Flash, Danger	Self-Sticking Polyester	4 in. x 6 in.	5	44-895
NEC Arc Flash, Warning	Self-Sticking Polyester	7 in. x 10 in.	1	44-896
NEC Arc Flash, Warning	Fiberglass	10 in. x 14 in.	1	44-897



Lockout Signs

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

OSHA Regulation Signs

		3		
E LOCK OUT BEFORE SERVICING	NOOT In Accertance with Its HIDAR, of apposed processors can be to processor can be to processor can be not exceeding at the active can be any second backed proceedings, and approximate of the Safe Text checkers will be	The Standard C. conclusion and indicatorial in the Standard PAREL MUST BE BY The rank The Standard The New Stand The New Standard T	KEPT CLEAR FOR L NEC PEGULATIONS TE DE ESTE PANEL E MANTENESE USADAS DE ACUERDO	OCKOUT SAFETY Center Center
Legend		Material	Size (In.)	Cat. No.
OSHA Regulation		Self-sticking polyester	3-1/2 x 10	44-877
OSHA Regulation – Biling	jual	Self-sticking polyester	7 x 10	44-878
Lockout Safety Center		Acrylic	6H x 9W x 4D	44-885
Lock Out Before Servicing	ļ	Self-sticking polyester	2-1/4 x 4-1/2	44-884
Notice in Accordance with OSHA	1	Fiberglass	20 x 14	44-887

Magnetic Danger Signs

DANGER	DANGER
BREAKERS Locked Out	EQUIPMENT BEING SERVICED DO NOT OPERATE

Legend	Material	Size (In.)	Cat. No.
Danger Breakers Locked Out –	Magnetic	5 x 7	44-890
Danger Equipment Being Serviced Do Not Operate	Magnetic	5 x 7	44-891

Danger Signs	DANGER		(PELIGRO)	PELIGRO ALTO VOLTAJE MANTENGASE ALEJADO	
Resistant to both chemicals & abrasion – protected graphics for indoor & outdoor use	HIGH VOLTAGE	HIGH VOLTAGE KEEP OUT	ALTO VOLTAJE	DANGER HIGH VOLTAGE KEEP OUT	

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
Danger High Voltage – Bilingual	Fiberglass	20 x 14	44-882



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

Property	Method	Value
Thickness	ASTMD2103	5.0 Mils
Elongation	ASTMD882-75B	80%
Composition	IDEAL Specs.	Bottom layer virgin PE Top layer virgin 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
Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-251
Caution Buried Fiber Optic Cable Below	Orange	6 in. x 1,000 ft.	42-252

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

Property	M	ethod		Value
Thickness	AST	ASTMD2103		4.0 Mils
Elongation	ASTMI	D882-75B		500%
Composition	IDEA	L Specs.	100)% virgin LDPE
Tensile Strength	AST	MD882		2,750 PSI
Recommended Burial Dep	th			
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
Caution Buried Electric Line Below	Red	3 in. x 250 ft.		42-131
Caution Buried Electric Line Below	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
Caution Buried Electric Line Below	Yellow	6 in. x 1,00	0 ft.	42-152

Barricade Tapes



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

Property	Method	Value
Elongation	ASTM D88-75B	≥ 400%
Composition	IDEAL Specs.	100% virgin LDPE
Tensile Strength	ASTM D882	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	3 in. x 1,000 ft.	4.0 Mils	42-002
Caution High Voltage	Yellow	3 in. x 1,000 ft.	4.0 Mils	42-003
Danger	Red	3 in. x 1,000 ft.	4.0 Mils	42-051
Danger High Voltage 277V/480V Keep Out	Red	3 in. x 1,000 ft.	4.0 Mils	42-052

Legend	Color	Size	Thickness	Cat. No.
Caution	Yellow	3 in. x 250 ft.	2.0 Mils	42-031
Caution	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-011
Caution Do Not Enter	Yellow	3 in. x 1,000 ft.	2.0 Mils	42-012
Danger	Red	3 in. x 1,000 ft.	2.0 Mils	42-015



Powr-Tie[™]

Quality Construction

- One-piece design for added strength
- Superior locking mechanism
- Exceeds industry tensile strength ratings

Low Insertion Force

- Tapered thin tip reduces initial friction
- Lowest insertion force with the highest tensile strength
- Reduces installation fatigue

No Burrs or Sharp Edges

- Smooth corners provide added safety
- Rounded edges eliminate insulation damage

Stepped Tail Gripper

- Tapered tail grip assures positive threading
- Stepped tail allows for easier grabbing and tightening once engaged

Miniature (18 lb.) Natural & UV Black









Angled Tail

- Eases initial insertion alignment
- Lowers installation costs

Material Selection

- Natural General Purpose 6/6 Nylon
 - Suitable for most applications
 - Meets UL 94V-2 flammability ratings
 - 85°C/185°F working temperature
- UV Black Nylon 6/6
 - Suitable for most applications with continuous or extended exposure to outdoor elements
 - Weather resistant grade, able to endure ultraviolet (UV) light
 - Meets UL 94V-2 flammability ratings
 - 85°C/185°F working temperature
- Heat Stabilized Black Nylon 6/6
 - Suitable for most applications with continuous or extended exposure to high temperatures
 - Meets UL standards for electrical applications
 - Meets UL 94V-2 flammability ratings
 - 125°C/254°F working temperature

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon						100007 4 0	100	IT1M-C
Natural Nylon	4.0 in./102mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 7/8	18 lbs.	MS3367-4-9	1000	IT1M-M
UV Black Nylon	4.0 11.7 10211111	.034 11.72.0311111	.042 11.7 1.001111	1/10 1/0	10 103.	M00007 4 0	100	IT1M-CO
UV Black Nylon						MS3367-4-0	1000	IT1M-M0
Natural Nylon		n .094 in./2.39mm	.042 in./1.06mm	1/16 - 1-1/2	1/2 18 lbs.		100	IT1_5M-C
UV Black Nylon	6.1 in./154mm						100	IT1_5M-C0
Natural Nylon							100	IT1_5M-C30
Natural Nylon					18 lbs.	18 lbs.	100	IT2M-C
Natural Nylon	8.1 in./206mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 2-3/16			1000	IT2M-M
UV Black Nylon		.094 111./2.3911111	.072 11., 1.0011111	1/10 2-3/10			100	IT2M-CO
UV Black Nylon						1000	IT2M-M0	

*IM, 1_5M & 2M Series

Intermediate (40 lb.) Natural & UV Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.			
Natural Nylon							100	IT1_5I-C			
Natural Nylon	5.7 in./145mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 1-7/16	40 lbs.	MS3367-5-9	1000	IT1_5I-M			
UV Black Nylon	0.7 11.7 1 1011111	.110 11./0.001111	.010 11.71.2 11111	1,10 1 1,10	10 103.		100	IT1_5I-C0			
UV Black Nylon						MS3367-5-0	1000	IT1_5I-M0			
Natural Nylon							100	IT2I-C			
Natural Nylon	8.8 in./224mm .	.140 in./3.56mm	.049 in./1.24mm	./1.24mm 1/16 - 2-3/8	′8 40 lbs.	MS53367-5-9	1000	IT2I-M			
UV Black Nylon							100	IT2I-CO			
UV Black Nylon						IVIS53307-5-0	MS53367-5-0	1000	IT2I-M		
Heat Stabilized Black Nylon								100	IT2I-C30		
Natural Nylon	11.5 in./292mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 3-3/8	40 lbs.		100	IT3I-C			
UV Black Nylon	11.5 111./29211111	.142 111./ 3.0011111	.035 11./1.4011111 1/10 - 3-3/6	3.0011111 .000 11./ 1.4011111 1	1/10 - 5-5/0	1/10 - 3-3/0	111 1/10 - 3-3/6	-3/0 40 IDS.		100	IT3I-C0
Natural Nylon	14.5 in./368mm .142 in./3.60mm	n14.5 in./368mm .142 in./3.60mm .055 in./1.40mm 1/16	1/16 - /	40 lbs	16 - 4 40 lbs.		100	IT4I-C			
UV Black Nylon		. 142 111./3.0011111	.000 111./ 1.4011111	1/10 - 4			100	IT4I-CO			
1 5 & 21 Spring								_ 🔿 *			

1 5 & 21 Series



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Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.								
Natural Nylon						M00007 1 0	100	IT2S-C								
Natural Nylon						MS3367-1-9	1000	IT2S-M								
UV Black Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8	50 lbs.	MS3367-1-0	100	IT2S-CO								
UV Black Nylon						10122201-1-0	1000	IT2S-MO								
Heat Stabilized Black Nylon							100	IT2S-C30								
Natural Nylon														MS3367-7-9	100	IT3S-C
Natural Nylon						IVI33307-7-9	500	IT3S-D								
UV Black Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16	50 lbs.	MS3367-7-0	100	IT3S-CO								
UV Black Nylon							500	IT3S-D0								
Heat Stabilized Black Nylon							100	IT3S-C30								
Natural Nylon						MC22C7 0.0	100	IT4S-C								
Natural Nylon							MS3367-2-9	500	IT4S-D							
UV Black Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8	50 lbs.	100007.0.0	100	IT4S-CO								
UV Black Nylon						MS3367-2-0	500	IT4S-D0								
Heat Stabilized Black Nylon							100	IT4S-C30								
Natural Nylon	17.0 in (400mm	100 in // 00mm	050 in /1 04mm	1/10 4.0/4	EQ lbs		100	IT5S-C								
UV Black Nylon	17.0 in./432mm	.190 in./4.82mm	.053 in./1.34mm	1/16 - 4-3/4	50 lbs.		100	IT5S-CO								

Standard (50 lb.) Natural, UV Black & Heat Stabilized Black

*2S, 3S & 4S Series

UL Listed Nylon 6/6 cable ties are suitable for use in air handling spaces in accordance with Section 300-22(C) & (D) of the National Electrical Code.

Light Heavy-Duty, Heavy-Duty & Extra Heavy-Duty Natural, UV Black & Heat Stabilized Black

Description	Length	Width	Thickness	Max Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.		
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	3/16-4-1/16	120 lbs.	MS3367-3-9	50	IT4LH-L		
UV Black Nylon	13.1 11./30411111	.300 111./ 7.0211111	.075 11./ 1.5011111	3/10-4-1/10	120 103.	MS3367-3-0	50	IT4LH-LO		
Natural Nylon	17.8 in./451mm	.300 in./7.62mm	.075 in./1.90mm	3/16-5-1/4	120 lbs.		50	IT5LH-L		
UV Black Nylon	17.0 11./43 11111	.300 111./ 7.0211111	.075 11./ 1.5011111	3/10-3-1/4	120 103.		50	IT5LH-LO		
Natural Nylon	24.2 in./614mm	.300 in./7.62mm	.075 in./1.90mm	3/16-7	120 lbs.		50	IT7LH-L		
UV Black Nylon	24.2 111./01411111	.300 111./7.0211111	.075 11./ 1.9011111	3/10-7	120 105.		50	IT7LH-LO		
Natural Nylon	28.0 in./711mm	.300 in./7.62mm	.075 in./1.90mm	3/16-8	120 lbs.		50	IT8LH-L		
UV Black Nylon	20.0 11./7 1 111111	.300 111./1.0211111	.075 11./ 1.5011111	.0/3 11./ 1.9011111 3/10-6 120 105.		50	IT8LH-LO			
Natural Nylon	25.3 in./642mm	.340 in./8.64mm	.090 in./2.29mm	3/16-7-3/16	175 lbs.	MS3367-10-9	50	IT7H-L		
UV Black Nylon	23.3 11./04211111	.340 111./0.0411111	.050 111./2.2511111	3/10-7-3/10		MS3367-10-0	50	IT7H-L0		
Natural Nylon	33.1 in./841mm	.340 in./8.64mm	.090 in./2.29mm	3/16-9-3/4	175 lbs.	MS3367-12-9	50	IT10H-L		
UV Black Nylon	55.1 11./04 111111	.340 111./0.0411111	.050 111./2.2511111	3/10-3-3/4	175 105.	MS3367-12-0	50	IT10H-L0		
Natural Nylon	37.1 in./942mm	.340 in./8.64mm	n .090 in./2.29mm	n 3/16-11	175 lbs.	MS3367-13-9	50	IT11H-L		
UV Black Nylon	57.1111./54211111	.540 111./0.0411111			175 105.	MS3367-13-0	50	IT11H-LO		
Natural Nylon						MS3367-16-9	50	IT14H-L		
Gray Nylon	47.8 in./1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2	175 lbs.	MS3367-16-8	50	IT14H-L8		
UV Black Nylon	_					MS3367-16-0	50	IT14H-LO		
Natural Nylon	22.8 in./579mm	.50 in./12.7mm	.080 in./2.03mm	3/16-6	050 lba		100	IT6EH-C		
UV Black Nylon	22.0 11./07 911111 .00 111./ 12.71		.000 111./2.0311111 3/	JIII 3/10-0	5/10-0	200 105.	3/16-6 250 lbs.		100	IT6EH-C0



Python[™] Adjustble Locking Cable

Python[™] Adjustable Locking Cable secures anything within its grasp. It's the only locking cable that is always the right length for your application. This exclusive, patented product holds the flexible steel cable tight at any position for infinite possibilities.



- Infinite Locking Positions The patented lock holds the cable tight at any position from 1 ft. (30cm) to 6 ft. (1.8m)
- Application Flexibility Interchangeable cables
- Keyed Alike Convenience Rekeyable cylinder
- Cut Resistance 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

Pro-Series® Shackless Lock and Hasp

- Ideal for vans, trucks, gates and vending
- Defeats attempts to pry and cut
- Hardened solid steel lock body withstands forcible attacks
- Complete with high security 6-pin Pro Series® Cylinder



Description	Cat. No.
Hidden Shackle Solid Steel Padlock	44-994
Solid Steel Hasp for use with 44-994	44-993





Test and Measurement

Industrial Clamp Meters w/Exclusive TightSight[™] Display

- 600 and 1000 amp clamps for a variety of industrial and commercial environments
- Unique TightSight[™] bottom display makes hard-to-reach measurements convenient
- New easy-to-read displays feature large numbers and green glowing backlight
- CAT IV rating for maximum safety
- Voltage-presence warning on all functions

Description	Cat. No.
400AAC Clamp Meter w/NCV	61-732
400AAC Clamp Meter w/NCV, TRMS	61-736
600AAC Clamp Meter	61-764
600AAC Clamp Meter w/TRMS, Capacitance, Frequency, 40AAC Low Range	61-766
600AAC w/TRMS, DC Current	61-768
1000AAC w/TRMS	61-772
1000AAC w/TRMS, DC Current, Capacitance	61-774

SureTest® Circuit Tracers

- Numeric value and audibl signal provide quick and easy-tounderstand tracing feedback
- Receiver display rotates automatically for easy viewing
- Identifies breakers and fuses
- Pinpoints opens and shorts
- Can be used on circuits 0-600V AC/DC

Description	Cat. No.
SureTest® Circuit Tracer	61-954
SureTest® Circuit Tracer	61-956
SureTest® Open/Closed Circuit Tracer	61-958





DEA



61-956











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

Smart-Meter Speci	fications 61	-096
	RANGE & RESOLUTION	BASIC ACCURACY
AC VOLTAGE	750V	1.5%
DC VOLTAGE	1000V	1.0%
AC CURRENT	200.0A	3.0%
RESISTANCE	2000Ω	1.0%

PlatinumPro[®] 320 Series Digital Multimeter

- Capacitance
- Frequency
- Auto/manual ranging
- Min/max
- Data hold
- Auto power off

Description	Cat. No.
Digital Multimeter – True RMS	61-322
Digital Multimeter – True RMS, backlight, data acquisi software and RS-232 interface	tion, 61-324

Accessories

Includes		
Premium test leads w/alligator clips	TL-100	
Optional		
Carrying case	C-290	
Current clamp adapter	61-334	
ProVision [™] software	61-904	
RS-232 cable	61-905	





RANGE & RESOLUTION

2000m/200.0/600 V

2000m/200.0/1000 V

200.0 A 200.0/200.0k Ω

200.0µ F

AC voltage, harmonics indicator, max hold, Cat III-1000V rating

320 Series Spe	cifications	61-322	61-324
	RANGE & RESOLUTION	BASIC ACCURACY	
AC VOLTAGE	600.0m6.000/60.00/600.0/750 V	0.9%	0.9%
DC VOLTAGE	600.0m/6.000/60.00/600.0/1000 V	0.5%	0.5%
AC CURRENT	60.00m/600.0m A	1.5%	1.5%
DC CURRENT	600.0µ /6000µ/60.00m/600.0m A	1.0%	1.0%
RESISTANCE	600.0/6.000k/60.00k/600.0k 6.000M/60.00M Ω	0.7% 0.7%	0.7%
CAPACITANCE	60.00µ/600.0µ/6.000m F	1.9%	1.9%
FREQUENCY	6000/60.00k/600.0k/6.000M/60.00M Hz	0.01%	0.01%

61-0	96
IGE & RESOLUTION	BASIC ACCURACY
750V	1.5%
1000V	1.0%
200.0A	3.0%
2000Ω	1.0%

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61-704

BASIC ACCURACY

1.2%

0.5% 3.0%

1.0%

3.0%

61-702 & 61-704



Test & Measurement

Insulation Testers

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



Description	Cat. No.
MEGGER® Digital Insulation Tester — 250/500/1000V test voltages, test inhibition >25V, default voltmeter to 600V AC/DC, digital display with analog arc, auto discharge, auto power off, auto ranging, protective rubber boot, continuity, low battery indication, Cat III- 300V, includes carrying case	61-791

Insulation Teste Specifications	er 61-791	
	RANGE & RESOLUTION	ACCURACY
TEST VOLTAGE	250/500/ 1000 V	
INSULATION RESISTANCE	999MΩ	8.0%
CONTINUITY	0.01-100Ω	3.0%
MEGGER [®] is a register	ed trademark of Megger, Inc.	CE

Vol-Con® Elite Voltage/Continuity Tester

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- Digital circuitry for accurate measurements
- Tests for AC voltage from 24-600VAC
- Tests for DC voltage from 6-220VDC
- Audible continuity
- Replaceable silicone test leads
- Low impedance to eliminate ghost voltages
- Non-contact voltage indication (40-600VAC)
- Integral lead storage
- CAT III 1000V

Vol-Con [®] Description	Cat. No.
Vol-Con [®] Elite	61-090
Vol-Con [®] Elite w/vibration mode	61-092
Replacement leads	TL-102
Nylon carrying case	C-90

Vol-Con® Voltage/ Continuity Tester

- Extremely rugged and reliable three-in-one tester
- Vibrates when voltage is present
- Tests for AC voltage from 5-600V AC/DC
- Patented, automatic switching continuity tester
- Bright, long life LED's and neon indicator lamp
- Replaceable plug-in leads with shielded probe tips
- Dual voltage indication for backup safety
- 5-year warranty

Description	Cat. No.
Vol-Con [®] w/standard leads	61-076
Resistor-fused leads*	61-072
Padded nylon case	C-90
*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.	Ç 🚭



Vol-Con[®] XL & Vol-Test[®] XL

- Extremely rugged and reliable tester
- Vibrates when voltage is present
- Tests for AC/DC voltage
- Replaceable leads with shielded probe tips
- Bright, long-life LED's and neon indicator
- Dual voltage indication for backup safety
- Compact size
- CAT III 600V
- 5-year warranty

Accessories		
Includes		
Standard test leads	TL-80	
Optional		
Resistor-fused leads	TL-82	
Padded nylon case	C-90	
Standard leather case	61-010	
Premium leather case	61-020	

CAT III

Description	Cat. No.
Vol-Con [®] XL voltage/continuity tester – Audible continuity, audible voltage indication, tests from 6-600V AC/DC	61-086
Vol-Test® XL voltage tester – Tests from 80-600V AC/DC	61-085
Resistor fused leads*	TL-82
Padded nylon case	C-90

*Special, current-limiting resistor in each lead acts as a fuse to open in a short-circuit situation.







SureTest[®] Circuit Analyzers

- True RMS
- Measures voltage drop under 12, 15 and 20-amp load
- Line voltage
- Peak voltage
- Frequency
- Ground-neutral voltage
- Ground impedance
- Hot and neutral conductor impedances
- Identifies proper wiring in 3-wire receptacles
- Identifies false (bootleg) grounds
- Tests GFCIs for proper operation displays time and amperage
- Verifies isolated grounds (with 61adapter)



trip	Includes	
ie Ie	Carrying case	61-179
0	1 ft. extension cord	61-182
176	Optional	
.170	Ground continuity adapter	61-175
	Isolated ground adapter	61-176
	Extension cord w/alligator clips	61-183

Description	Cat. No.
SureTest® Circuit Analyzer — Standard model	61-164
SureTest® Circuit Analyzer — Tests AFCI for proper operation	61-165

3-Phase/Motor Rotation Tester

- Identifies three-phase sequence
- Indicates motor rotation
- Checks for open phases
- For use up to 600V
- Meets IEC-1010 (EN61010) safety requirements
- 5-year warranty Includes carrying case

Description	Cat.
3-Phase/Motor Rotation Tester	61-

Non-Contact Voltage Tester

- Tests for voltage from 40V to 600V AC
- Audible and visual indication
- Locates breaks along live insulated wires
- Tests for energized circuits



Vol-Con [®] Description	Cat. No.
Volt Sensor™ – Over-molded cushion grip, Cat III-600V	61-063
Powr-Glo™ Audible	61-061
CAT III rating applies to 61-063 only.	()

Automatic Circuit Identifier with E-Z Check[®] Plus

- Microprocessor controlled sensitivity level Positively identifies circuit breakers and fuses without service interruption Checks proper wiring sequence and GFCI operation Visual and audible indicators 5-year warranty Description Cat. No. Automatic Circuit Identifier with E-Z Check® Plus 61-534 œ E-Z Check[®] Plus GFCI **Circuit Tester** Tests GFCI receptacles for proper operation Tests for correct wiring, open ground, reverse polarity, open hot, open neutral, hot on neutral, hot and ground reversed with open hot and ground
- fault interruption in 3-wire, 125VAC circuits No-slip ergonomic design maximizes comfort
- Premium neon lamps prevent false readings
- Tough, impact-resistant case

5-year warranty

No.

·521

CE

Description	Cat. No.
E-Z Check® Plus GFCI Circuit Tester	61-051







Tools & Totes

Kinetic[™] Super Wire Strippers

- Non-slip Santoprene[™] textured grips
- New ergonomic design for maximum control
- Plier nose for holding and twisting wires
- Slide lock for safety and storage
- Thumb and finger valley makes stripping easier and more accurate
- "Shear-Cut™" bolt cutters

Description	Wire Range	Cat. No.
Kinetic Super [™] Wire Stripper	10-18 AWG Solid	45-715
Kinetic Super [™] Wire Stripper	16-26 AWG Stranded	45-716
Kinetic Super [™] Wire Stripper	22-30 AWG Solid	45-717
Kinetic Super [™] Wire Stripper	8-16 AWG Stranded	45-718

Reflex[™] Premium T[®]-Stripper Wire Strippers



- Ergonomic design for maximum comfort
- Curved handles to reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured, no-slip sleeves for a sure, easy grip

Description	Wire Range	Cat. No.
Reflex™ Premium T®-Stripper	10-18 AWG solid	45-415
Reflex™ Premium T®-Stripper	16-26 AWG stranded	45-416
Reflex™ Premium T®-Stripper	22-30 AWG solid	45-417
Reflex™ Premium T®-Stripper	8-16 AWG stranded	45-418
Reflex™ Premium T®-Stripper – Metric	0.5mm ² -4.0mm ²	45-425-341
Reflex™ Premium 14/2 NM Cable T [®] -Stripper	—	45-448
Reflex™ Premium 12/2 NM Cable T®-Stripper		45-449
Reflex™ Premium T [®] -Cutter		45-423

Kinetic[™] Reflex[®] T[®]-Stripper Wire Strippers



- Non-slip Santoprene[™] textured grips
- New ergonomic design for maximum control
- Strips 6-14 AWG solid & 8-16 AWG stranded wire

Description	Wire Range	Cat. No.
Kinetic™ Reflex™ T®-Stripper Wire Stripper	10-18 AWG Solid	45-915
Kinetic™ Reflex™ T®-Stripper Wire Stripper	12-20 AWG Stranded	45-918

Reflex[™] Super T[®]-Stripper Wire Strippers



- 6/32 and 8/32 self-chasing screw-cutting holes
- Locking pawl for safe storage
- Ergonomic design for maximum comfort
- Curved handles to reduce wrist fatigue
- Sleeves that extend to stripping head to cushion thumb and fingers
- Textured sleeves with extra cushioning for added comfort

Description	Wire Range	Cat. No.
Reflex™ Super T [®] -Stripper	8-16 AWG solid	45-615
Reflex™ Super T [®] -Stripper w/static dissipative grips	16-26 AWG stranded	45-616
Reflex™ Super T [®] -Stripper w/static dissipative grips	22-30 AWG solid	45-617
Reflex™ Super T [®] -Stripper	8-16 AWG stranded	45-618
Reflex™ Super 12/2 & 14/2 NM Cable T®-Stripper	12-2 and 14-2 solid	45-621





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.

Pliers

- First UL tested and classified insulated tools available
- 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)

Serrated jaws provide secure gripping surface Cutting jaws and edges are laser hardened for greater strength and durability

Permanently bonded, double insulated handles for added safety

 High carbon tool steel for precision durability

Non-slip guard for added safety High visibility ergonomic handles for maximum comfort and control

 Textured Santoprene[®] handles provide a sure grip and are resistant to perspiration, water, oil and chemicals

Screwdrivers

IDEAL insulated screwdrivers and nutdrivers are individually tested and VDE certified to 1000V AC (1500V DC). Each one is designed and tested to meet ASTM F1505-01, EN, DIN, and IEC 60 900 test standards.

- Ergonomic cushioned grips provide 40% more torque than conventional handles, even when wearing gloves
- Tempered blades finished with black oxide and super hardened for maximum quality
- Precision ground tips provide secure fit for less spin-out
- Meets OSHA requirement (29 CFR 1910) for insulated tools



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. Property 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 tool 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 $+70^{\circ}$ 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!

Tools and Totes

25-Piece Journeyman Kit



25-Piece Journeyman Insulated Kit – 35-9302

Includes:	Cat. No.
Reflex™ Super T®-Stripper	45-9615
Wire Stripper Cutter	45-9120
9-1/2 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
10 in. Tongue and Groove Pliers	35-9430
9-1/2 in. High-Leverage Cable Cutter	35-9052
9-3/4 in. Multi-Crimp Tool	30-9429
1/8 in. x 3 in. Screwdriver	35-9320
3/16 in. x 5 in. Screwdriver	35-9321
1/4 in. x 6 in. Screwdriver	35-9323
5/16 in. x 6 in. Screwdriver	35-9324
3/8 in. x 8 in. Screwdriver	35-9325
#1 Phillips Tip Screwdriver	35-9310
#2 Phillips Tip Screwdriver	35-9311
#3 Phillips Tip Screwdriver	35-9312
3/16 in. Hex Nutdriver	35-9330
1/4 in. Hex Nutdriver	35-9331
5/16 in. Hex Nutdriver	35-9332
3/8 in. Hex Nutdriver	35-9333
7/16 in. Hex Nutdriver	35-9334
1/2 in. Hex Nutdriver	35-9335
Knife	35-9340
VoltSensor™	61-063
Fuse Puller	34-002
Heavy-Duty Soft Tool Case	35-9352

9-Piece Basic Kit



9-Piece Basic Insulated Kit - 35-9300 Includes: Cat. No. Reflex[™] Super T[®]-Stripper 45-9615 9-1/2 in. Side Cutting Linesman Pliers 30-9430 8 in. Diagonal Cutting Pliers w/angled head 35-9029 8-1/2 in. Long-Nose Pliers 35-9038 9-1/2 in. High-Leverage Cable Cutter 35-9052 3/16 in. x 5 in. Screwdriver 35-9321 1/4 in. x 6 in. Screwdriver 35-9323 #2 Phillips Tip Screwdriver 35-9311 34-002 Fuse Puller Heavy-Duty Soft Tool Case 35-9350

Insulated Screwdrivers



Description	Cat. No.
#1 x 3 in. Phillips Screwdriver	35-9310
#2 x 4 in. Phillips Screwdriver	35-9311
#3 x 6 in. Phillips Screwdriver	35-9312
1/8 in. x 4 in. Slotted Screwdriver	35-9320
3/16 in. x 5 in. Slotted Screwdriver	35-9321
7/32 in. x 7 in. Slotted Screwdriver	35-9322
1/4 in. x 6 in. Slotted Screwdriver	35-9323
5/16 in. x 7 in. Slotted Screwdriver	35-9324
3/8 in. x 8 in. Slotted Screwdriver	35-9325
Screwdriver Kit	Cat. No.
0 Diseas Insulated Communities (Cit	

9-Piece Insulated Screwdriver Kit (Includes all 9 screwdrivers listed above.)	35-9303
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17-Piece Standard Kit



17-Piece Standard Insulated Kit - 35-9301

Includes	Oct. No.
Includes:	Cat. No.
Reflex™ Super T [®] -Stripper	45-9615
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
10 in. Tongue and Groove Pliers	35-9430
9-1/2 in. High-Leverage Cable Cutter	35-9052
1/8 in. x 3 in. Screwdriver	35-9320
3/16 in. x 5 in. Screwdriver	35-9321
1/4 in. x 6 in. Screwdriver	35-9323
5/16 in. x 6 in. Screwdriver	35-9324
3/8 in. x 8 in. Screwdriver	35-9325
#1 Phillips Tip Screwdriver	35-9310
#2 Phillips Tip Screwdriver	35-9311
#3 Phillips Tip Screwdriver	35-9312
VoltSensor™	61-063
Fuse Puller	34-002
Heavy-Duty Soft Tool Case	35-9351

Insulated Nutdrivers



Description	Cat. No.
3/16 in. Hex Nutdriver	35-9330
1/4 in. Hex Nutdriver	35-9331
5/16 in. Hex Nutdriver	35-9332
3/8 in. Hex Nutdriver	35-9333
7/16 in. Hex Nutdriver	35-9334
1/2 in. Hex Nutdriver	35-9335
9/16 in. Hex Nutdriver	35-9336
Nutdriver Kit	Cat. No.

Nutdriver Kit	Cat. No.
7-Piece Insulated Nutdriver Kit (Includes all 7 Nutdrivers listed above.)	35-9304

Insulated Pliers



Description	Cat. No.
9-1/4 in. Side Cutting Linesman Pliers	30-9430
8 in. Diagonal Cutting Pliers w/angled head	35-9029
8-1/2 in. Long-Nose Pliers	35-9038
9-1/2 in. High-Leverage Cable Cutter	35-9052
9-3/4 in. Multi-Crimp Tool	35-9429
10 in. Tongue and Groove Pliers	35-9430
Premium T [®] -Stripper	35-9120
Reflex™ Super T [®] -Stripper	35-9615

Insulated Knife



Description	Cat. No.
Insulated Electrician's Knife	30-9340

Cases

Description	Cat. No.
Tool Roll Case for Basic Kit (35-9300)	35-9350
Tool Roll Case for Standard Kit (35-9301)	35-9351
Tool Roll Case for Journeyman Kit (35-9302)	35-9352
Hard Case for Screwdriver Kit (35-9303)	35-9353
Hard Case for Nutdriver Kit (35-9304)	35-9353



Our pliers are the first to have Insulated Tools successfully passed UL certification!

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 listing mark, tools must be tested by UL to meet these standards.

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

Tools and Totes



- 1000V AC, 1500V DC rated per ASTM F 1505-94 and EN 60900 (IEC900)
- Contains: 1/4 in. slotted, 3/16 in. slotted, #1 Phillips, #2 Phillips and 1/4 in. nutdriver
- Accommodates most standard 1/4 in. hex bits
- Powerful magnet securely holds bits in place
- Handle will store up to 8 standard bits

Screwdriver/Nutdriver

Description	Cat. No.
5-in-1 Non-Conductive Screwdriver/Nutdriver	35-9905
1/4 in. Slotted Replacement Bit	LA-4125
3/16 in. Slotted Replacement Bit	LA-4126
#1 Phillips Replacement Bit	LA-4127
#2 Phillips Replacement Bit	LA-4128

- 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

Fuse Puller and Test Light



- 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

- Convenient pocket-sized tool safety 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 only	34-012
30 in. Lead w/test prod	34-013
30 in. Lead w/insulated clip	34-014





Rapid-Pak® Fish Tapes



- Inner rotating reel with winding knob retrieves tape faster than traditional fish tapes for increased labor savings
- Funneled tape opening reduces kinking and tape breakage
- Reversible, hinged knob for right- or left-handed rewinds
- Stationary handle for extra durability
- Textured case surface provides positive grip
- Impact-resistant plastic case





Tape with Eyelet

Description	Cat. No.	Replacement Tape Cat. No.
Fiberglass tape w/leader - 50 ft.	31-187	31-150
Fiberglass tape w/leader - 100 ft.	31-186	31-152
Fiberglass tape w/leader – 200 ft.	31-207	31-155
Fiberglass tape w/eyelet - 50 ft.	31-190	31-160
Fiberglass tape w/eyelet - 100 ft.	31-189	31-162
Fiberglass tape w/eyelet – 200 ft.	31-208	31-165
Replacement crank assembly (winder knob)	31-220	

WARNING: Do not use fishtape on live electrical circuits. Always wear eye protection with these products, or any other hand or power tool.

Tuff-Grip[™] Fish Tapes



- Non-slip handle and fingertip grooves provide secure grip for added handling comfort
- Oversized handle opening accommodates large, gloved hands
- Large handle increases stability for better winding control
- Durable handle withstands rugged job site conditions
- Textured case surface provides positive grip
- Impact-resistant plastic case

Description	Cat. No.	Replacement Tape Cat. No.
Fiberglass tape w/leader – 50 ft.	31-060	31-150
Fiberglass tape w/leader – 100 ft.	31-061	31-152
Fiberglass tape w/leader – 200 ft.	31-064	31-155
Fiberglass tape w/eyelet – 50 ft.	31-062	31-160
Fiberglass tape w/eyelet – 100 ft.	31-063	31-162
Fiberglass tape w/eyelet – 200 ft.	31-065	31-165
Nylon Monofilament w/eyelet – 50 ft.	31-542	31-552
Nylon Monofilament w/eyelet – 100 ft.	31-544	31-554

Cable Gripping Gloves

- Provide positive grip on lubricated cable
- Comfortable fit



Description	Cat. No.
Rubber-Coated Gloves	31-417

IDEAL INDUSTRIES offers a wide variety of products, training materials and seminars to help our customers stay compliant with **Occupational Safety and Health** Standards (OSHA) and the **National Electric Code (NEC).**



Occupational Safety and Health Standards (OSHA)

1910.147 The Control of Hazardous Energy (Lockout/Tagout)

This standard covers the servicing and maintenance of machines and equipment in which the unexpected energization or start up of the machines or equipment, or release of stored energy could cause injury to employees. This standard establishes minimum performance requirements for the control of such hazardous energy.

More information can be found at www.osha.gov.

National Electric Code Article 110.16 Flash Protection



Switchboards, panelboards, industrial con-

trol panels and motor control centers that are in other than dwelling occupancies and 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 gualified persons before examination, adjustment, servicing or maintenance of the equipment.

National Electric Code

Article 430.102 Disconnect Means Location

(B) Motor Disconnect. A disconnecting means must be located in sight of the motor location and the driven machinery location. The controller disconnecting means,



in accordance with 430.102(A), can serve as the disconnecting means for the motor, if the controller disconnect is located in sight of the motor location and the driven machinery location. Exception: The motor disconnecting means is not required to be in sight of the

motor and the driven machinery location under either condition (a) or (b) below, provided the controller disconnecting means required in accordance with 430.102(A) is capable of being individually locked in the open position.

The provision for locking or adding a lock to the disconnecting means must be permanently installed on or at the switch or circuit breaker used as the controller disconnecting means.

(a) Where such a location of the disconnecting means is impracticable or introduces additional or increased hazards to persons or property.

(b) In industrial installations, with written safety procedures, where conditions of maintenance and supervision ensure only qualified persons will service the equipment.

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