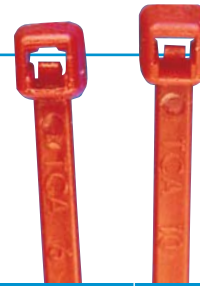


Plenum Ties

Halar® Ties

- For use in air handling/plenum environments
- Easily recognized maroon color
- Low smoke density and excellent flammability rating, non-flammable UL 94V-0
- Superior chemical resistance
- 300°F temperature use



Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Qty./Bag	Cat. No.
Maroon Halar	8.0 in./203mm	.178 in./4.5mm	.053 in./1.35mm	1/16 - 2 in.	50 lbs.	100	IT2S-C702
Maroon Halar	11.0 in./279mm	.178 in./4.5mm	.053 in./1.35mm	1/16 - 3 in.	50 lbs.	100	IT3S-C702

Approximate dimensions.

Halar® is a trademark of Ausimont Chemical Co.

UL Listed for Air Handling Ties

- 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
- See page D-4 for additional technical information



Standard Ties

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Maroon Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8	50 lbs.	MS3367-1-9	100	IT2S-C35
Natural Nylon							100	IT2S-C
Natural Nylon							1000	IT2S-M
UV Black Nylon							100	IT2S-C0
UV Black Nylon							1000	IT2S-M0
Maroon Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16	50 lbs.	MS3367-7-9	100	IT3S-C35
Natural Nylon							100	IT3S-C
Natural Nylon							500	IT3S-D
UV Black Nylon							100	IT3S-C0
UV Black Nylon							500	IT3S-D0
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8	50 lbs.	MS3367-2-9	100	IT4S-C
Natural Nylon							500	IT4S-D
UV Black Nylon							100	IT4S-C0
UV Black Nylon							500	IT4S-D0

Mounting Ties

Description	Length	Width	Strap Thickness	Max. Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	100	IT2SMH-C
Natural Nylon							1000	IT2SMH-M
UV Black Nylon							100	IT2SMH-C0

Cable Tie Bag

- Keep your cable ties right where you need them, eliminate loss with this convenient easy-to-use bag that clips securely onto your belt
- Includes a bag for 8 in. cable ties and a bag for 11 in. cable ties, they easily clip together or can be used separately
- Elastic cord quickly and easily cinches to keep ties securely in place



Description	Cat. No.
Cable Tie Bag	IT-BAG

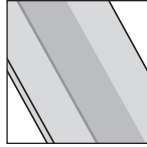
Wire Management

Pro-Met™

- Larger stainless steel barb for more resistance
- Metal tooth is cut and set firmly in place using exclusive manufacturing processes

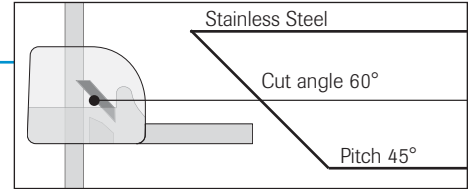
Central Rib Replaces Teeth

- Central rib design allows for maximum flexibility without losing resistance
- Central relief eliminates breaking points
- Infinitely adjustable to any bundle diameter



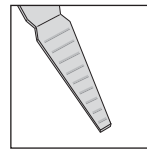
Superior Strength

- Excellent impact resistance



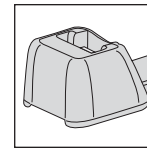
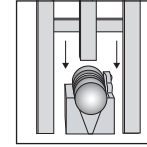
Unique Tail Design

- Straight tail gives you more tightening diameter
- Spear point simplifies installation
- Ribbing on the point allows for grabbing and tightening



Ergonomic Head

- Head design allows for quicker installation
- Smooth head protects installer hands
- Decrease your application costs



Cable Ties

Miniature (18 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	3.9 in./100mm	0.10 in./2.5mm	0.035 in./0.9mm	0.9 in./24mm	18 lbs./18 DaN	100	IMET1M-C
UV Black Nylon						100	IMET1M-C0

Intermediate (40 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	5.5 in./140mm	0.14 in./3.5mm	0.039 in./1.0mm	1.4 in./36mm	40 lbs./28 DaN	100	IMET1_5I-C
UV Black Nylon						100	IMET1_5I-C0
Natural Nylon	11 in./280mm	0.14 in./3.5mm	0.039 in./1.0mm	3.1 in./80mm	40 lbs./28 DaN	100	IMET3I-C
Natural Nylon						1000	IMET3I-M
UV Black Nylon						100	IMET3I-C0
UV Black Nylon						1000	IMET3I-M0

Standard (50 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	7.9 in./200mm	0.18 in./4.5mm	0.043 in./1.1mm	2.0 in./51mm	50 lbs./40 DaN	100	IMET2S-C
Natural Nylon						1000	IMET2S-M
UV Black Nylon						100	IMET2S-C0
UV Black Nylon						1000	IMET2S-M0
Natural Nylon	11.4 in./290mm	0.18 in./4.5mm	0.043 in./1.1mm	3.0 in./76mm	50 lbs./40 DaN	100	IMET3S-C
Natural Nylon						1000	IMET3S-M
UV Black Nylon						100	IMET3S-C0
UV Black Nylon						1000	IMET3S-M0
Natural Nylon	14.2 in./360mm	0.18 in./4.5mm	0.043 in./1.1mm	4.0 in./101mm	50 lbs./40 DaN	100	IMET4S-C
Natural Nylon						1000	IMET4S-M
UV Black Nylon						100	IMET4S-C0
UV Black Nylon						1000	IMET4S-M0

Light Heavy-Duty (120 lb.) Ties Natural and UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Qty./Bag	Cat. No.
Natural Nylon	14.2 in./360mm	0.30 in./7.5mm	0.059 in./1.5mm	4.0 in./101mm	120 lbs./80 DaN	50	IMET4LH-L
Natural Nylon						500	IMET4LH-D
UV Black Nylon						50	IMET4LH-LO
UV Black Nylon						500	IMET4LH-DO

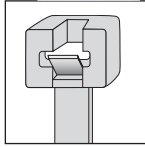




Powr-Tie™

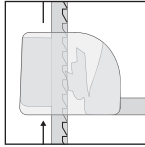
Quality Construction

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



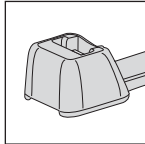
Low Insertion Force

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



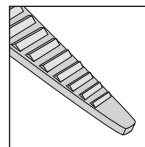
No Burrs or Sharp Edges

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



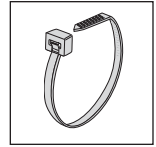
Stepped Tail Gripper

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



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

Miniature (18 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 7/8	18 lbs.	MS3367-4-9	100	IT1M-C
Natural Nylon							1000	IT1M-M
UV Black Nylon						100	IT1M-C0	
Natural Nylon	6.1 in./154mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 1-1/2	18 lbs.		100	IT1_5M-C
UV Black Nylon							100	IT1_5M-C0
Natural Nylon	8.1 in./206mm	.094 in./2.39mm	.042 in./1.06mm	1/16 - 2-3/16	18 lbs.		100	IT2M-C
Natural Nylon							1000	IT2M-M
UV Black Nylon							100	IT2M-C0

*IM, 1_5M & 2M Series



Intermediate (40 lb.) Ties Natural & UV Black

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	5.7 in./145mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 1-7/16	40 lbs.	MS3367-5-9	100	IT1_5I-C
Natural Nylon							1000	IT1_5I-M
UV Black Nylon						100	IT1_5I-C0	
UV Black Nylon						MS3367-5-0	1000	IT1_5I-M0
Natural Nylon	8.8 in./224mm	.140 in./3.56mm	.049 in./1.24mm	1/16 - 2-3/8	40 lbs.	MS53367-5-9	100	IT2I-C
Natural Nylon							1000	IT2I-M
UV Black Nylon						100	IT2I-C0	
UV Black Nylon						1000	IT2I-M0	
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							100	IT3I-C0
Natural Nylon	14.5 in./368mm	.142 in./3.60mm	.055 in./1.40mm	1/16 - 4	40 lbs.		100	IT4I-C
UV Black Nylon							100	IT4I-C0

*1_5 & 2I Series



Wire Management

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

Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	7.5 in./190mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 1-7/8	50 lbs.	MS3367-1-9	100	IT2S-C
Natural Nylon							1000	IT2S-M
UV Black Nylon						MS3367-1-0	100	IT2S-C0
UV Black Nylon							1000	IT2S-M0
Heat Stabilized Black Nylon							100	IT2S-C30
Natural Nylon	11.2 in./284mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 3-1/16	50 lbs.	MS3367-7-9	100	IT3S-C
Natural Nylon							500	IT3S-D
UV Black Nylon						MS3367-7-0	100	IT3S-C0
UV Black Nylon							500	IT3S-D0
Natural Nylon	14.5 in./368mm	.178 in./4.52mm	.053 in./1.34mm	1/16 - 4-1/8	50 lbs.	MS3367-2-9	100	IT4S-C
Natural Nylon							500	IT4S-D
UV Black Nylon						MS3367-2-0	100	IT4S-C0
UV Black Nylon							500	IT4S-D0
Natural Nylon	17.0 in./432mm	.190 in./4.82mm	.053 in./1.34mm	1/16 - 4-3/4	50 lbs.		100	IT5S-C
UV Black Nylon							100	IT5S-C0

*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.



Cable Ties

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

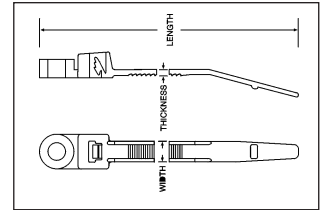
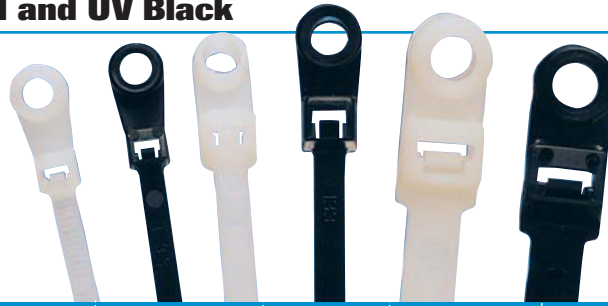
Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Mil-Spec Reference	Qty./Bag	Cat. No.
Natural Nylon	8.7/220.9mm	.300 in./7.62mm	.076 in./1.93mm	2-1/16	120 lbs.		100	IT2LH-C
UV Black Nylon							100	IT2LH-C0
Natural Nylon	15.1 in./384mm	.300 in./7.62mm	.075 in./1.90mm	3/16-4-1/16	120 lbs.	MS3367-3-9	50	IT4LH-L
UV Black Nylon						MS3367-3-0	50	IT4LH-L0
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							50	IT5LH-L0
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							50	IT7LH-L0
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						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						MS3367-12-0	50	IT10H-L0
Natural Nylon	37.1 in./942mm	.340 in./8.64mm	.090 in./2.29mm	3/16-11	175 lbs.	MS3367-13-9	50	IT11H-L
UV Black Nylon						MS3367-13-0	50	IT11H-L0
Natural Nylon	47.8 in./1214mm	.340 in./8.64mm	.090 in./2.29mm	3/8-14-1/2	175 lbs.	MS3367-16-9	50	IT14H-L
Gray Nylon						MS3367-16-8	50	IT14H-L8
UV Black Nylon						MS3367-16-0	50	IT14H-L0
UV Black Nylon	22.8 in./579mm	.50 in./12.7mm	.080 in./2.03mm	3/16-6	250 lbs.		100	IT6EH-C0

*4LH, 7H, 10H, 11H, 14H Series



Mounting Head Ties Natural and UV Black

- Use for attaching bundles to surfaces
- Allows bundling before and after mounting



Description	Length	Width	Strap Thickness	Max. Bundle	Tensile Strength	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	6.0 in./152mm	.140 in./3.55mm	.048 in./1.21mm	1/16 - 1-1/4 in.	30 lbs.	No. 8	100	IT1_5IMH-C
UV Black Nylon							100	IT1_5IMH-C0
Natural Nylon	8.1 in./206mm	.178 in./4.52mm	.053 in./1.35mm	1/16 - 1-3/4 in.	50 lbs.	No. 10	100	IT2SMH-C
Natural Nylon							1000	IT2SMH-M
UV Black Nylon							100	IT2SMH-C0
Natural Nylon							100	IT3SMH-C
UV Black Nylon	11.8 in./300mm	.189 in./4.80mm	.050 in./1.27mm	1/16 - 3 in.	50 lbs.	No. 10	100	IT3SMH-C0
Natural Nylon							100	IT4SMH-C
Natural Nylon	14.5 in./370mm	.189 in./4.80mm	.060 in./1.52mm	1/16 - 4 in.	50 lbs.	No. 10	100	IT4SMH-C
Natural Nylon	15.7 in./398mm	.300 in./7.62mm	.075 in./1.90mm	3/16 - 4-1/16 in.	120 lbs.	1/4"	100	IT4LHMH-C
UV Black Nylon							100	IT4LHMH-C0

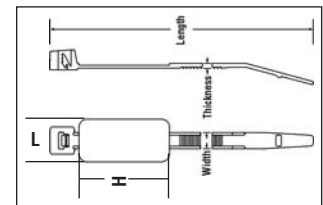
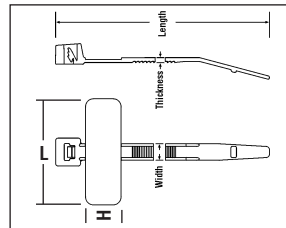
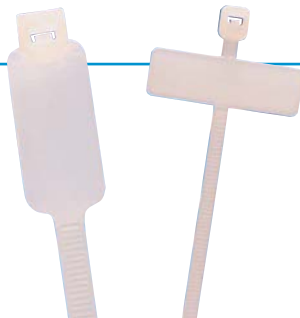
*4LH Series; **2S Series

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.



Identification Ties

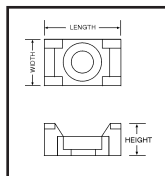
- Write-on surface
- Bundle and identify at the same time



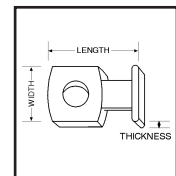
Description	Length	Width	Thickness	Max. Bundle	Tensile Strength	Pad Size (H X L)	Qty./Bag	Cat. No.
Natural Nylon	4.0 in./102mm	.100 in./2.54mm	.044 in./1.12mm	1/16 - 7/8 in.	18 lbs.	5/16 in. x 1 in.	100	IT1MID-C
Natural Nylon	7.8 in./200mm	.181 in./4.59mm	.055 in./1.40mm	1/16 - 1-7/8 in.	50 lbs.	1-1/8 in. x 1/2 in.	100	IT2SID-C
Natural Nylon	14.1 in./358mm	.187 in./4.75mm	.055 in./1.40mm	3/8 - 4 in.	50 lbs.	1-1/8 in. x 1/2 in.	100	IT4SID-C

Screw Mounting Bases - Standard and Low Profile

Standard Screw Mount



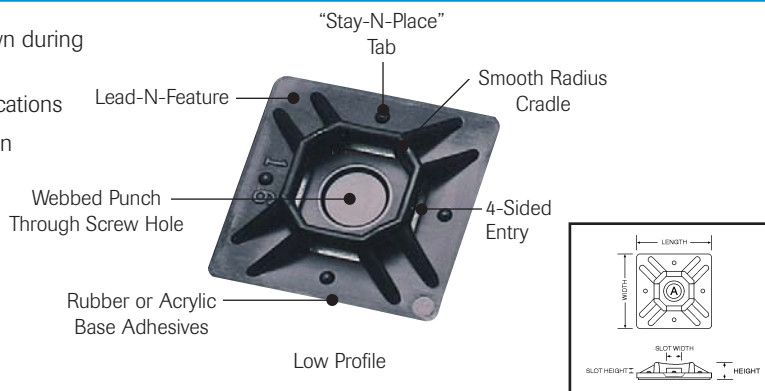
Low Profile Mount



Description	Length	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Screw Mount Natural Nylon	.590 in./15mm	.370 in./9.40mm	.270 in./6.86mm	.062 in./1.59mm	.190 in./4.83mm	No. 6	100	IT1SMB-C
Screw Mount UV Black Nylon							100	IT1SMB-C0
Screw Mount Natural Nylon	.870 in./22mm	.640 in./16.26mm	.380 in./9.65mm	.125 in./3.18mm	.300 in./7.62mm	1/4 in.	100	IT2SMB-C
Screw Mount UV Black Nylon							100	IT2SMB-C0
Low Profile Mount	.750 in./19mm	.500 in./12.70mm	.120 in./3.04mm	.062 in./1.57mm	.180 in./4.57mm	No. 8	100	IT1LPMB-C

Mounting Pads

- Patented stay-in-place tab keeps cable ties from sliding down during vertical applications
- Lead-N-feature allows easy insertion for hard to reach applications
- Four-sided entry slots save time during placement orientation
- Smooth radius cradle eliminates possible damage to cable while providing stable support
- Webbed punch through screw hole allows maximum adhesive surface area, along with easy insertion of mechanical fasteners
- Low Profile is essential in confined spaces
- UL recognized, rubber adhesive positioning device



Description	Width	Height	Slot Height	Slot Width	Screw Size	Qty./Bag	Cat. No.
Natural Nylon	.74 in./19mm	.19 in./4.8mm	.05 in./1.2mm	.20 in./5.1mm	No. 4	100	IT750MP-C
UV Black Nylon						100	IT750MP-C0
Natural Nylon	.99 in./25mm	.20 in./5.0mm	.06 in./1.5mm	.20 in./5.1mm	No. 6	100	IT1000MP-C
UV Black Nylon						100	IT1000MP-C0



Clamps

- Use to secure wires, cables, pipes, tubing, fiber optics
- Ultraviolet black nylon clamps available for internal and external use
- Use with #10 mounting screw



Description	Closed Diameter	Center to Center	Width	Thickness	Mounting Hole	Qty./Bag	Cat. No.
Natural Nylon	.125 in./3.18mm	.343 in./8.71mm	3/8 in.	.050 in./1.27mm	.203 in./5.16mm	100	IT125CCL-C
Natural Nylon	.250 in./6.35mm	.421 in./10.69mm	3/8 in.	.050 in./1.27mm	.203 in./5.16mm	100	IT250CCL-C
UV Black Nylon						100	IT250CCL-C0
Natural Nylon	.375 in./9.52mm	.500 in./12.70mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT375CCL2-C
UV Black Nylon						100	IT375CCL2-C0
Natural Nylon	.500 in./12.70mm	.553 in./14.05mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT500CCL2-C
Natural Nylon	.625 in./15.88mm	.625 in./15.88mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT625CCL2-C
Natural Nylon	.750 in./19.05mm	.699 in./17.75mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT750CCL2-C
Natural Nylon	1.000 in./25.40mm	.825 in./20.96mm	1/2 in.	.060 in./1.52mm	.203 in./5.16mm	100	IT1000CCL2-C

Flexible Tubing*

- Flexible polyethylene cuts easily to desired length
- Splits open for neat "bundling" of wiring jobs
- Snaps shut to create a continuous protective cover

Description	Qty.	Cat. No.
3/8 in. Flexible Tubing	10 ft.	772240
3/8 in. Flexible Tubing	1,200 ft.	772245
1/2 in. Flexible Tubing	1 ft.	772241
1/2 in. Flexible Tubing	900 ft.	772244
1 in. Flexible Tubing	5 ft.	772242
1 in. Flexible Tubing	250 ft.	772243

*Buchanan branded



Material Specifications

Nylon 6/6 - General Purpose

General purpose nylon 6/6 features lightweight, high-strength and a wide-temperature range. Even at higher than recommended temperatures or exposure to flame, nylon does not give off toxic or irritating by-products. Nylon 6/6 is hydroscopic and, therefore, absorbs or releases moisture depending on its environment. Moisture level of the material will affect tensile strength, stiffness and elongation of the product.

Nylon 6/6 - UV Stabilized

General purpose nylon 6/6 with increased resistance to ultraviolet light. Carbon black is one of the most effective stabilizers known today. A uniform dispersion of carbon black provides good ultraviolet light resistance without adversely affecting physical properties. The addition of carbon black, or any other ultraviolet light stabilizer, prolongs the useful life of plastic products used outdoors, but it does not totally eliminate the destructive effects of the light.

Halar®

Although weaker than general-purpose nylon 6/6 (about 37%), Halar is resistant to a wide range of chemicals such as concentrated hydrofluoric and sulfuric acids. It is radiation resistant. Halar also withstands high temperatures, ultraviolet light exposure and meets U.L. flammability requirement 94V-0. Its outstanding characteristic is a lower smoke density when burned. This makes Halar more desirable for use in areas where smoke generation is a concern.

Nylon 6/6 - Heat Stabilizer

Used for continuous or extended exposure to high temperatures (up to 250°F). They contain specially formulated heat stabilizers to provide additional thermal endurance to prevent reduction in physical properties and fatigue as a result of high temperatures. Heat stabilized nylon meets the UL standard for electrical applications.

Material	Continuous Operating Temp.		Tensile AT 73F ASTM D-638	UL Flame Rating	Gamma Radiation Resistance	UV Resistance
	Max.	Min.				
Nylon 6/6 – General Purpose	185° F 85° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Poor
Nylon 6/6 – UV Stabilized	185° F 85° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Very Good
Nylon 6/6 – Heat Stabilized	220° F 105° C	-40° F -40° C	12,000	94V-2	1 X 10 Rads	Very Good
Halar®	284° F 140° C	-50° F -46° F	7,500	94V-0	1 X 10 Rads	Excellent

Material Suitability Chart (10 = most suitable, 1 = least suitable)

Design Criteria	Weather Natural 6.6 Nylon	Heat Stabilized Resistant 6.6 Nylon	Black 6.6 Nylon	Halar®
Part # Suffix Material Designation		-0	-30	-702
Loop Tensile Strength	7	7	7	5
Low Temperature Service	6	6	6	7
High Temperature Service	5	5	6	7
Flammability	6	6	6	9
Ultraviolet Resistance	1	6	4	9
Radiation Resistance	3	3	3	9
Overall Chemical Resistance	6	6	6	10
- Hydrocarbons	9	9	9	10
- Chlorinated Hydrocarbons	7	7	7	10
- Acids	2	2	2	10
- Bases	7	7	7	10
- Salts	3	3	3	10
Relative Price	Low	Low	Low	High

*Halar® is a trademark of Ausimont Chemical Co.

IDEAL Cable Tie Catalog Numbering System

IT	2	S		C	
I = IDEAL INDUSTRIES, INC. (at beginning of Catalog Number)	Size Approximate Bundle Diameter for ties	TENSILE Strength M = Miniature (18 lbs.) I = Intermediate (40 lbs.) S = Standard (50 lbs.) LH = Light-Heavy Duty (120 lbs.) H = Heavy Duty (175 lbs.) EH = Extra-Heavy Duty (250 lbs.)	Style _ = Standard Tie MH = Mounting PM = Push Mount RL = Releasable ID = Identification MB = Mounting Base LPMB = Low Profile Mounting Base MP = Mounting Pad CCL = Cable Clamp	Qty. Per Package L = 50 C = 100 D = 500 M = 1000	Color _ = Natural 0 = UV Black 8 = Gray 30 = Heat Stabilized Black 35 = Maroon 702 = Halar
Family: T = Standard One-Piece Cable Tie MET = Stainless Steel Barb Tie					

Military Cross Reference

Current MIL Std. Part Number*	Cable Tie Part Number
MS3367-1-*	IT2S-*
MS3367-2-*	IT4S-*
MS3367-3-*	IT4LH-*
MS3367-4-*	IT1M-*
MS3367-5-*	IT1.5I-*
MS3367-5-*	IT2I-*
MS3367-7-*	IT3S-*
MS3367-10-*	IT7H-*
MS3367-13-*	IT11H-*
MS3367-16-*	IT14H-*

*Color and package denotation

Cable-Tie Installation Tools



- Consistent, positive tension
- Flush cut-off leaves no projections to damage nearby wires or components
- Lightweight economy model for smaller jobs
- Standard and heavy-duty models feature rugged, die-cast aluminum construction with comfortable, cushioned grips
- Scrap tail stays in tool until trigger is released

Description	Cat. No.
Economy – use w/intermediate & standard ties*	BCTT-200
Standard – use w/intermediate & standard ties	41-990
Heavy-duty – use w/standard & heavy-duty ties	41-995

*Color may vary

Cable Staples

- Full line of quality insulated and non-insulated staples to fit all cabling applications
- Packaged to answer electrician's need for clean, dry, rust-free staples
- Convenient reclosable containers keep staples organized in the truck and on the job-site



Plastic Insulated Staples

- Use with wider cable such as Romex®, NM and UF
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion

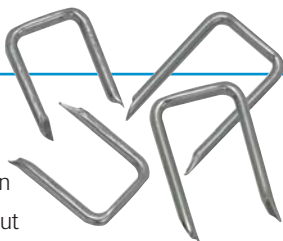


Description	Quantity/Package	Cat. No.
1/2 in. Insulated	50/Bag	BPS2-50
1/2 in. Insulated	100/Bag	BPS2-1
1/2 in. Insulated	200/Jar	BPS2-JR
1/2 in. Insulated	400/Jar	BPS2B-JR
1/2 in. Insulated	500/Bag	BPS2-5
1/2 in. Insulated	5,000/Bucket	BPS2-5M
1/2 in. Insulated	30,000/Barrel	BPS2-30K
3/4 in. Insulated	50/Bag	BPS3-50
3/4 in. Insulated	100/Bag	BPS3-1
3/4 in. Insulated	175/Jar	BPS3-JR
3/4 in. Insulated	250/Bag	BPS3-2

Romex® is a registered trademark of General Cable Co.

Carbon Steel Staples

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion

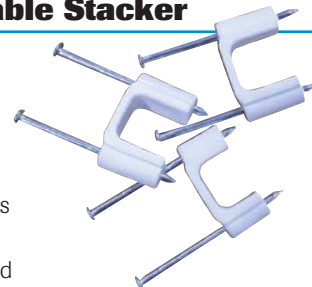


Description	Quantity/Package	Cat. No.
1/2 in. x 1 in.	100/Box	BCS1-1
1/2 in. x 1 in.	500/Jar	BCS1-JR
1/2 in. x 1 in.	500/Box	BCS1-5
1/2 in. x 1 in.	5,000/Bucket	BCS1-5M
9/16 in. x 1-1/4 in.	100/Box	BCS2-1
9/16 in. x 1-1/4 in.	400/Jar	BCS2-JR
9/16 in. x 1-1/4 in.	500/Box	BCS2-5
9/16 in. x 1-1/4 in.	5,000/Bucket	BCS2-5M

Romex® is a registered trademark of General Cable Co.

Plastic Insulated Cable Stacker

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel construction
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion

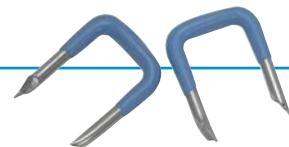


Description	Quantity/Package	Cat. No.
1/2 in. 2 Cable Stacker	50/Bag	BPS2/2-50
1/2 in. 3 Cable Stacker	50/Bag	BPS2/3-50
1/2 in. 4 Cable Stacker	50/Bag	BPS2/4-50

Romex® is a registered trademark of General Cable Co.

Insulated Staples

- Use with wider cable such as Romex®, NM and UF
- High-grade carbon steel with flexible PVC insulation
- Sharp-point legs drive straight without splitting wood
- Resist rust and corrosion

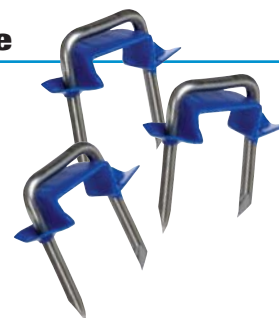


Description	Quantity/Package	Cat. No.
1/2 in. x 1 in.	450/Jar	BICS-JR
9/16 in. x 1-1/4 in.	350/Jar	BICS2-JR

Romex® is a registered trademark of General Cable Co.

Metal Insulated Staple

- Use with wider cable such as Romex®, NM and UF
- Resists rust and corrosion
- Blue plastic saddle prevents wire damage



Description	Quantity/Package	Cat. No.
1/2 in. Metal Staple w/Plastic Insulator	200/Jar	BMICS-JR

Romex® is a registered trademark of General Cable Co.

Sound Straps

- Use with smaller insulated wire and cord applications such as lamps, thermostats, telephones and sound systems
- Smooth plastic saddle prevents damage to wires
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
3/16 in. White	25/Clamshell	772804
3/16 in. White	100/Clamshell	772805
3/16 in. White	250/Jar	BPLVSW-JR
3/16 in. Black	25/Clamshell	772810
3/16 in. Black	100/Clamshell	772812
3/16 in. Black	250/Jar	BPLVSB-JR

Coaxial Cable Straps

- Use with round cable such as CATV/VCR, RG-5, RG-6 and phone cables or with plastic and metal tubing
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
1/4 in. Black	25/Clamshell	772806
1/4 in. Black	100/Clamshell	772807
1/4 in. Black	250/Jar	BPCXSB-JR
1/4 in. White	25/Clamshell	772808
1/4 in. White	100/Clamshell	772809
1/4 in. White	250/Jar	BPCXSW-JR
7/16 in. White	50/Bag	BPS4-50

Plastic Insulated Service Entrance Straps

- Use with service entrance cable and conduit
- Smooth plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
#6 SER & 1/2 in. EMT	50/Bag	BSER6-50
#6 & #8 SEU	50/Bag	BSEU6-50
#2 SER & 3/4 in. EMT	25/Bag	BSER2-25
#2 SEU	25/Bag	BSEU2-25
4/0 SER	5/Bag	BSER4/0-5
4/0 SEU	5/Bag	BSEU4/0-5

Data Cable Staples

- Secures Category 3, 5 and other 4-pair twisted wire
- Blue plastic saddle prevents damage to cable
- Zinc-plated nails resist rust and corrosion



Description	Quantity/Package	Cat. No.
Data Staple	25/Bag	772880
Data Staple	250/Jar	BPDATAS-JR

Fiber Insulated Cable Staples

- Use with smaller wire and cord applications such as low voltage bells, thermostats, telephones and sound systems
- Insulated fiber provides enhanced strength and dielectric resistance
- Sharp-point legs drive straight without splitting wood
- Resists rust and corrosion



Description	Quantity/Package	Cat. No.
Brown Fiber	40/Clamshell	772840
White Fiber	40/Clamshell	772841

Carbon Steel Service Entrance Staples

- Use with service entrance cable and conduit
- High-grade carbon steel construction
- Sharp-point legs drive straight without splitting wood
- Resists rust and corrosion



Description	Quantity/Package	Cat. No.
1-5/16 in. x 3/4 in.	100/Box	BMSE150-1
1-1/2 in. x 1-1/16 in.	100/Box	BMSE175-1

Heat Shrinkable Tubing

Thermo-Shrink® UF Splice Kits

- Direct burial rated
- 14/3 with and without ground thru 8/3 without ground, UF cable range
- Stretcher kit repairs a 7 in. to 10" in. section damaged or destroyed by a trencher.
- 600V Maximum, 105°C rating
- Meets the requirements of the 2002 NEC Code 110-14(b) and UL486D



Description	Cat. No.
UF Splice Kit - 14-8 AWG, Tubing 1.1 in. x 8 in.	46-400
UF Stretcher Kit* - 14-8 AWG, Tubing 1.1 in. x 18 in.	46-410

*Stretcher kit connector is 11.5 in.

Thermo-Shrink® Al/Cu Splice Kits

- Direct burial rated, underground splice kits
- Heavy-wall heat shrink tubing with adhesive liner provides complete insulation and protection
- Connector can be used for aluminum and/or copper cable
- Meets the requirements of the 2005 NEC Code 110-14(B)
- 600V maximum, 105°C rating



Description	Cat. No.
Underground Splice Kit – 8 to 4 AWG, Tubing 3/4 in. x 6 in.	46-401
Underground Splice Kit – 4 AWG to 1/0, Tubing 1.1 in. x 8 in.	46-402
Underground Splice Kit – 1/0 to 250 KCMIL, Tubing 1-1/2 in. x 12 in.	46-403

Thermo-Shrink® Copper Butt Splice Kits

- UL Listed
- Provides a fully-insulated butt splice
- 600V Maximum, 105°C rating



Description	Cat. No.
Butt Splice Kit – Copper 14-8 AWG	46-404
Butt Splice Kit – Copper 8-2 AWG	46-405

Thermo-Shrink® Self-Sealing UF Splice Kit

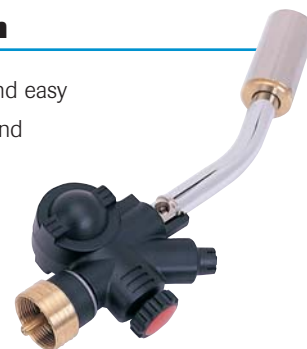
- Fully waterproof, submersible and re-enterable to make future changes or repairs
- Meets the requirements of the 2002 NEC Code 110-14 (b) and UL486D
- Accommodates 14 to 10 AWG wire range
- 600V Maximum, 105°C rating



Description	Cat. No.
Self Sealing UF Splice Kit	46-411

Thermo-Shrink® Torch

- Self-igniting trigger, starts fast and easy
- Fully adjustable regulator valve and air inlet port to achieve the ideal flame setting
- 1 in. wide brass burn-tip accommodates a variety of heat shrink applications
- Heavy duty, stainless steel burn tube, combined with a cast aluminum body with epoxy finish, creates a durable long lasting tool for almost any environment
- 1 - 20 threads screw directly onto 14 oz. and 16 oz. propane gas tanks



Description	Cat. No.
Heat Shrink Torch	46-420

Thermo-Shrink® Thin-Wall Heat Shrinkable Tubing

- Polyolefin material electrically insulates and protects in-line components, disconnect terminals and splices with its high strength and excellent resilience
- Use to bundle wires for very flexible light-duty harnesses
- Highly flame-retardant and flexible
- Resistant to common fluids and solvents
- Meets UL 224 125°C VW-1 600V, SAE-AMS-DTL-23053/5 Class 1 & 3
- Material: No PBB's, PBBO's, PBBE's, Cadmium < 5PPM; Lead < 10PPM
- 2:1 shrink ratio
- Minimum shrink temperature: 70°C
- Minimum fully recovery temperature: 100°C
- Operating temperature: -55°C to +135°C



Heat Shrink

Technical Data		
Property	Test Method	Typical Data
Tensile strength	ASTM D 638	14MPa
Elongation at break	ASTM D 638	600%
Elongation after aging at 175°C for 168 hours	ASTM D 638	350%
Flammability	UL 224 VW-1/ SAE-AMS-DTL-23053/5	Pass
Heat shock (250°C/4 hours)	ASTM D 2671	No cracking
Cold bend test (-55°C/4 hours)	ASTM D 2671	No cracking
Dielectric strength	ASTM D 150	20KV/mm
Volume resistance	ASTM D 876	10 ¹² Ω.cm
Copper corrosion	UL 224	Pass
Water absorption	ASTM D 570	0.15%
Chemical resistance	SAE-AMS-DTL-23053/5	Pass
Longitudinal shrinkage	UL 224	0±5%
Eccentricity	UL 224	30%

Normal Size (Inches)	Expanded I.D. (Min.)	Nominal Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Range*	Length	Pkg. Type	Cat. No.
3/64	0.063"/1.6mm	0.024"/0.6mm	0.013"/0.33mm	22-18 AWG	4 ft.	Disk	46-600
1/16	0.079"/2.0mm	0.031"/0.8mm	0.014"/0.36mm	16 AWG	4 ft.	Disk	46-601
3/32	0.122"/3.1mm	0.047"/1.2mm	0.017"/0.44mm	14-12 AWG	4 ft.	Disk	46-602
1/8	0.146"/3.7mm	0.063"/1.6mm	0.017"/0.44mm	24-20 AWG	6 in.	Bag	46-310
					2 ft.	Bag	46-311
					4 ft.	Disk	46-603
					1,000 ft.	Spool	46-312
3/16	0.205"/5.2mm	0.094"/2.4mm	0.020"/0.50mm	20-14 AWG	6 in.	Bag	46-313
					2 ft.	Bag	46-314
					4 ft.	Disk	46-604
					1,000 ft.	Spool	46-315
1/4	0.268"/6.8mm	0.126"/3.2mm	0.022"/0.56mm	14-8 AWG	6 in.	Bag	46-316
					2 ft.	Bag	46-317
					4 ft.	Disk	46-605
					500 ft.	Spool	46-318
5/16	0.346"/8.8mm	0.157"/4.0mm	0.022"/0.56 mm	10-6 AWG	4 ft.	Disk	46-606
3/8	0.421"/10.7mm	0.185"/4.7mm	0.022"/0.56mm	8-4 AWG	6 in.	Bag	46-319
					2 ft.	Bag	46-320
					4 ft.	Disk	46-607
					200 ft.	Spool	46-321
1/2	0.539"/13.7mm	0.252"/6.4mm	0.026"/0.65mm	4-1 AWG	6 in.	Bag	46-322
					2 ft.	Bag	46-323
					4 ft.	Disk	46-608
					200 ft.	Spool	46-324
3/4	0.807"/20.5mm	0.374"/9.5mm	0.027"/0.69mm	2-250 MCM	6 in.	Bag	46-325
					2 ft.	Bag	46-326
					4 ft.	Disk	46-609
					200 ft.	Spool	46-327
1	1.043"/26.5mm	0.500"/12.7mm	0.031"/0.80mm	2/0-500 MCM	6 in.	Bag	46-328
					2 ft.	Bag	46-329
					4 ft.	Disk	46-610
					100 ft.	Spool	46-330

*Reference only - Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.



Thermo-Shrink® Heavy-Wall Heat Shrinkable Tubing

- TS-46 irradiated cross-linked polyolefin with 3:1 standard shrink ratio
- Adhesive liner provides complete insulation and protection to electrical splices in above-grade, underground or underwater applications
- Maximum flame retardancy
- Meets UL 486D, CSA C22.2 No. 198.2, ANSI C119.1, Western Underground Guides Nos. 2.4, 2.5, MIL-DTL-23053/15, IEEE 383 Vertical Flame Test, ANSI C37.20.2, ICEA S-19-8 and NEMA insulation thickness requirements
- Continuous operating temperature from -55°C to 110°C
- Rated for 600V, 90°C continuous use
- Shrink temperature of 120°C



Model	Expanded I.D. (Min.)	Recovered I.D. (Max.)	Nominal Recovered Wall Thickness	Cable Range*	Length (Inches)	Cat. No.
TS-46-400	.400	.150	.060	12-6 AWG	6 9 48	46-343 46-344 46-346
TS-46-750	.750	.240	.090	8-1/0 AWG	6 9 48	46-347 46-348 46-350
TS-46-1100	1.100	.350	.120	2-4/0 AWG	6 9 48	46-351 46-352 46-354
TS-46-1500	1.500	.470	.160	3/0 AWG-400 KCMIL	9 12 48	46-356 46-357 46-358
TS-46-2000	2.000	.630	.160	250-750 KCMIL	9 18 48	46-369 46-371 46-372

*Reference only. Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.

Properties	Heavy Wall
Shrink Temperatures	120°C to 250°C (200°C recommended)
Continuous Operating Temperature	-55°C to 110°C
Tensile Strength (PSI)	2,100 PSI min.
Ultimate Elongation	600% min.
Secant Modulus @ 2% Strain	25,000 PSI max.
Specific Gravity	1.20 max.
Heat Aging, 168 hrs. @ 175°C Tensile Strength Elongation	500%
Heat Shock, 4 hrs. @ 225°C	No cracks, flowing or dripping
Flammability	Self-extinguishing
Low Temperature Brittle Point	-55°C
Volume Resistivity	10 ¹⁰ ohm-cm min.
Dielectric Strength	500V/mil (20kV/min.)
Corrosive Effect	Non-corrosive
Solvent Resistance 24 hrs. Immersion per MIL-DTL-23053	Good to excellent
Water Absorption	0.5%
Fungus Resistance	No growth
Longitudinal Change, 3 min.	+1%/-10%

All values are typical performance data and are not to be used as design data.



Thermo-Shrink® Medium-Wall Heat Shrinkable End Caps

- Creates a watertight seal to protect the ends of power and control cords
- Effectively offers protection against oxidation, ozone, UV radiation, etc.
- Coated with hot melt adhesive to ensure environment seal
- Fits easily over end of cable
- Protect power cables up to 1000V and telecommunication cable
- Recommended for both open air and underground power distribution cables with PVC, lead or XLPE sheaths
- Thermally stabilized cross-linked polyolefin, coated with specially designed hot melt adhesive



Technical Data		
Property	Test Method	Typical Data
Operating Temperature	IEC 216	-55°C to +110°C
Tensile Strength	ASTM D 638	>14 MPa
Elongation at break	ASTM D 638	>400%
Density	ASTM D 792	1.05g/cm ³
Elongation of break after aging	150°C, 168 hrs.	>300%
Dielectric Strength	IEC 243	>15kV/mm
Volume Resistance	IEC 93	10 ¹⁴ Ω.cm

Expanded I.D. (Min.)	Recovered I.D. (Max.)	Recovered Wall Thickness +/-10%	Cable Dia. Range*	Length (Inches)	Cat. No.
0.55"/14mm	0.18"/4.5mm	0.079"/2.0mm	0.20"/5mm - 0.47"/12mm	1.77/45mm	46-381
0.98"/25mm	0.31"/8mm	0.091"/2.3mm	0.39"/10mm - 0.71"/18mm	2.76/70mm	46-382
1.38"/35mm	0.59"/15mm	0.118"/3.0mm	0.67"/17mm - 1.18"/30mm	3.35/85mm	46-383
2.95"/75mm	1.38"/35mm	0.138"/3.5mm	1.77"/45mm - 2.76"/70mm	5.12/130mm	46-384
4.72"/120mm	2.36"/60mm	0.157"/4.0mm	2.95"/75mm - 4.33"/110mm	6.10/155mm	46-387

*Consult the wire manufacturer's catalog for specific O.D. of wire and insulation.

Thermo-Shrink® Heat Shrink Kit

Kit includes:

- Heat Elite Pro Heat Gun
- Eleven sizes of thin-wall heat shrinkable tubing disks (3/64 in. – 1 in.)
- Small deflector
- Premium T®-Cutter Wire Cutter



Description	Cat. No.
Kit includes: 46-203, 45-223, 46-941, & 46-600 through 46-610	46-007

Heat Elite Heat Gun Kit

- Temperature range – 930°F (500°C)
- Two-step switch for heat and air flow adjustments
- Double-insulated power cord
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- UL and CUL Listing



Description	Cat. No.
Heat Elite Kit - Includes #46-202 Heat Gun, #46-941 Small Deflector, and #46-954 Wide-Slot Adapter	46-202

Heat Elite Pro Heat Gun Kit

- Temperature range – 180°F - 1020°F (100 - 550°C)
- Two-step switch for heat and air flow adjustments
- Double-insulated power cord
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- Potentiometer for infinitely temperature adjustment
- UL and CUL Listing



Description	Cat. No.
Heat Elite Pro Kit - Includes #46-203 Heat Gun, #46-941 Small Deflector, #46-950 Reduction Adapter and #46-954 Wide-Slot Adapter	46-203

Heat Elite Plus LCD Heat Gun Kit

- Temperature range – 180°F - 1200°F (80 - 650°C)
- Double-insulated power cord
- Ergonomical distribution of weight
- Comfortable non-slip handle for ease of use
- LCD display with memory functions
- Temperature and airflow adjustments
- Stand-by mode to minimize the energy consumption
- Ceramic heating element ensures long-term coil performance
- UL and CUL Listing



Description	Cat. No.
Heat Elite Plus LCD Kit - Includes #46-204 Heat Gun, #46-941 Small Deflector, #46-952 Welding Adapter, #46-953 Solder Reflector Adapter, #46-955 Overlap Welding Adapter, #46-956 Pressure Roller	46-204

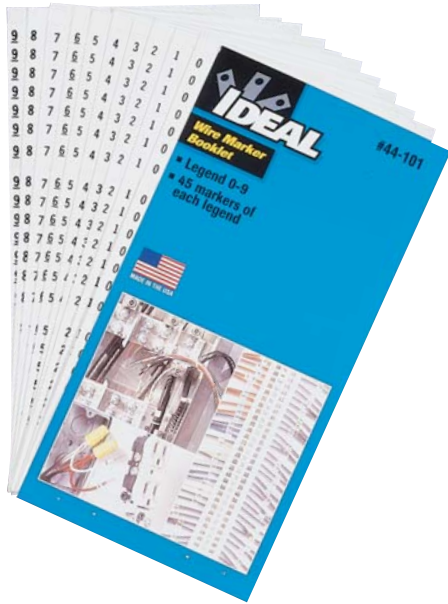
Heat Gun Accessories



Description	Cat. No.
Small Deflector, 1-1/4 in. diameter (For use with all Heat Elite Heat Guns)	46-941
Reduction Adapter (For use with 46-203 and 46-204)	46-950
Glass Protection Adapter (For use with all Heat Elite Heat Guns)	46-951
Welding Adapter (For use with 46-203 and 46-204)	46-952
Solder Reflector Adapter (For use with 46-204)	46-953
Wide-Slot Adapter (For use with all Heat Elite Heat Guns)	46-954
Overlap Adapter (For use with 46-203 and 46-204)	46-955
Pressure Roller (For use with 46-204)	46-956



Wire Marker Booklets



Wire Markers

- Convenient pocket-size booklets
- Plastic-impregnated cloth construction for long-lasting durability
- Resists abrasion, moisture, dirt and oil
- Perforated 1/4 in. x 1-1/2 in. markers can be separated into half-length sizes
- Non-smear black legend ensures high visibility
- Self-sticking on wire and cable
- For applications above or below ground

Specifications:

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

Load Centers

- Contains common household legends — bedroom, living room, dryer, water heater, security system, etc.



Description	Cat. No.
Load Center Wire Marker Booklet	44-154

Legend Assortments*

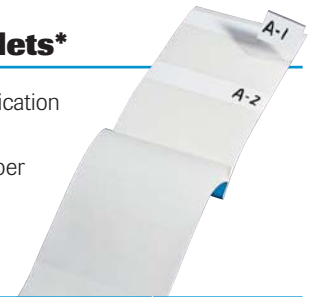
Legend	Quantity	Cat. No.
0-9	45 Markers each	44-101
A-Z 0-15 +, -, /	10 Markers each	44-102
1-45	10 Markers each	44-103
46-90	10 Markers each	44-104
1, 2, 3	150 Markers each	44-105
A, B, C	150 Markers each	44-106
A-Z**	45 Markers each	44-148
T1, T2, T3	150 Markers each	44-107
L1, L2, L3	150 Markers each	44-108
1-15 16-90 A-Z +, -, /, 0	6 Markers each 4 Markers each 2 Markers each 2 Markers each	44-109
1, 2, 3 A, B, C T1, T2, T3 L1, L2, L3	45 Markers each 45 Markers each 30 Markers each 30 Markers each	44-110
+, -, AC, DC POS, NEG, GND NEUT SPARE, BLANK	45 Markers each 33 Markers each 27 Markers each 21 Markers each	44-111

*Ten pages per booklet with each page bearing the legend assortment indicated. All booklets (except 44-111) contain 450 wire markers and 450 terminal markers. Booklet 44-111 includes 348 wire markers and 348 terminal markers.

**Booklet 44-148 contains 26 pages, one page of 45 markers per letter, 1170 total markers.

Write-On Marker Booklets*

- Use for developing personal identification systems
- Surface accepts pen, pencil or rubber stamp



Marker Size* (Inches)	Markers per page	Pages per book	Cat. No.
1 x 2-1/2	6	10	44-151
1 x 5	3	10	44-152

*Write-on area for 2-1/2 in. markers is 3/4 in. x 1 in. Write-on area for 5 in. markers is 1 in. x 1 in. Adhesion: .25 oz./in. width ultimate

Write-On Marker Cards

- Use for developing personal identification systems
- Cloth write-on surface
- Accepts most writing instruments



Marker Size (Inches)	Markers per card	Cat. No.
5/8 x 1-1/2	14	44-753

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

Wire Marker Dispensers

- Convenient pocket-size case (3 in. x 6 in.) holds 10 wire marker rolls
- Dispenser tab holds tapes firmly in place — allows removal of proper tape length without waste
- Flip top for easy access and refill
- Built-in hook for hanging from belt or tool pouch
- High-quality adhesive and 3 mil. thickness provide long-lasting, low-profile application
- Each plastic reel holds 8 ft. of polyester tape



Specifications:
 Temperature Range: -40°F to 180°F (-40°C to 82°C)
 Adhesion: 25 oz./in. width ultimate

Description	Cat. No.
Dispenser w/0 through 9 legend rolls	42-301
Refill pack with 1 each of 0-9 legend rolls	42-399

Wire Marker Cards

- Use for positive identification and keying of wires, terminal blocks, etc.
- Convenient pocket-size cards
- Bold, easy-to-read black characters
- Self-sticking on wire and cable
- Polyester film over laminate/cloth construction for long-term durability
- Resists abrasion, moisture, dirt and oil
- Individual markers measure approximately 1/4 in. x 1-1/2 in.

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



Legend	Markers per legend	Markers per card	Cat. No.
0-9 (Repeated)	3	30	43-953
A-Z	1	26	43-960

Voltage and Conduit Markers

Large:

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

Medium:

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

Small:

18 markers per card
 2-1/4 in. x 1/2 in. each w/5/16 in. type



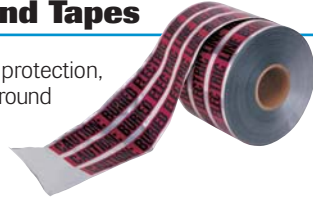
- Identify junction boxes, switches, circuit breakers, raceways, pipe and fuse boxes
- Non-conductive for user safety
- High-adhesion properties with easy removability
- Vinyl-impregnated cloth construction provides long-lasting durability
- Resist abrasion, moisture, dirt and oil
- Non-smear, black 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	—
277/480V	44-298	44-299	—
120V	—	44-353	—
208V	—	44-355	—
240V	—	44-358	—
277V	—	—	44-410
480V	44-314	44-364	—
DANGER	44-289	—	—
HIGH VOLTAGE	44-292	—	—

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 PE Top layer PET Foil industry standard
Tensile Strength	ASTMD882	35 lbs./in. (15,000 PSI)

Legend	Color	Size	Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-201
Caution Buried Electric Line Below	Red	6 in. x 1,000 ft.	42-251
Caution Buried Fiber Optic Line 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 lead-free ink



Property	Method	Value
Thickness	ASTMD2103	4.0 Mils
Elongation	ASTMD882-75B	500%
Composition	IDEAL Specs.	LDPE
Tensile Strength	ASTMD882	2,750 PSI

Recommended Burial Depth

3 in. Tape – 4 in. to 6 in.

6 in. Tape – less than 12 in.

Legend	Color	Size	Cat. No.
Caution Buried Electric Line Below	Red	3 in. x 1,000 ft.	42-101
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 1,000 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.	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

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.

Personal Lockout Pouch Kit

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



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	44-833
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.
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

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 277V Breaker/Single Pole Lockout	3	44-809
480/600V Breaker Lockout	1	44-807
Wall Switch Lockout	2	44-789
110V Plug Lockout	1	44-818
1 in. Safety Lockout Hasps	3	44-800
Red Labeled Lockout	1	44-791
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate (striped)	10	44-849
Fuse Blockout	1	44-815
Fuse Blockout	1	44-816
Gate Valve Lockout	1	44-824
Cleat for 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Universal Multi-Pole Breaker Lockout	3	44-783
Tool Box*	1	IA-3241

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

*Tool box color may vary.

Industrial Lockout/Tagout Kit



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

Description		Cat. No.
Industrial Lockout/Tagout Kit		44-974
Kit 44-974 Includes:	Qty.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Universal 277V 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	44-818
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 277V Breaker Lockout	1	44-785
Cleat for 480/600V Breaker Lockout	1	44-786
Red Lockout Padlocks	4	44-916
Universal Multi-Pole Breaker Lockout	2	44-783
Tool Box*	1	IA-3241

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

*Tool Box color may vary.

Lockout/Tagout Large Mouth Bag

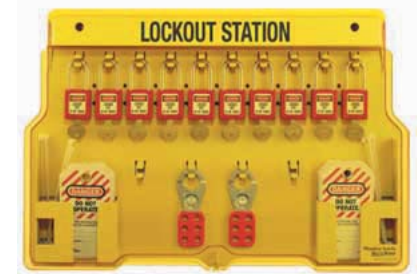
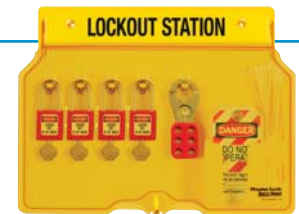
- Ideal for both storage and portability of your lockout/tagout needs
- Top opens completely for easy access and re-inforced to hold itself open
- Durable multi-ply construction with removable shoulder strap



Description	Cat. No.
Lockout/Tagout Embroidered Bag - 16 in. long	44-980

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 padlocks. 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

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	Qty.	Cat. No.
Industrial Lockout/Tagout Station – 16" H x 14" W x 6" D		44-975
Kit 44-975 Includes:		
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	3	44-800
Red Safety Padlocks	4	44-916
100V Small Plug Lockout	1	44-818
220/550V Plug Lockout	1	44-819
Lockout Tags – Do Not Operate	10	44-833
Gate Valve Lockout - 1 in. to 2-1/2 in.	1	44-824
Gate Valve Lockout - 2-1/2 in. to 5 in.	1	44-825
Ball Valve Lockout	1	44-820
Pneumatic Lockout	1	44-774
Cabinet w/two shelves	1	IA-4989

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

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."



Description	Cat. No.
Lockout/Tagout Video Training Program	44-942
Lockout/Tagout Video Training Program Reference Cards	44-954
Lockout/Tagout Compliance Manual	44-940
Real, Real Life Lockout/Tagout Training Video	44-941
Real, Real Life Lockout/Tagout Handbooks, 10/pack	44-953

Oversized Circuit Breaker Lockout System

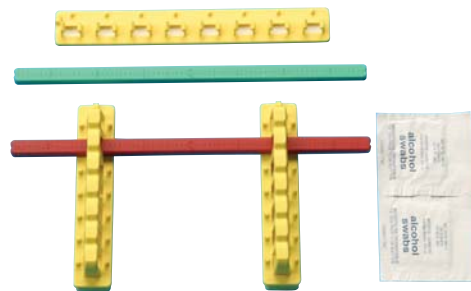
To comply with:

“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



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

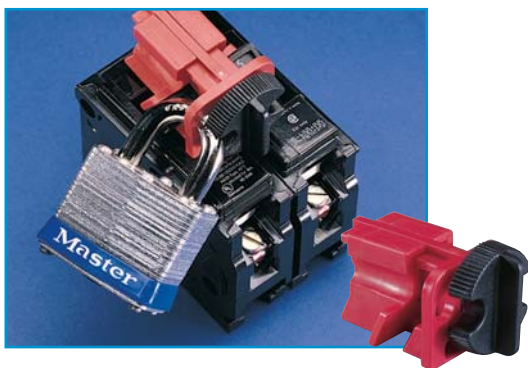
Large Breaker Lockout

- Designed to lockout large 480/600V breaker switches up to 2-1/2 in. wide and 7/8 in. thick
- Easy to install – no tools required



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

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

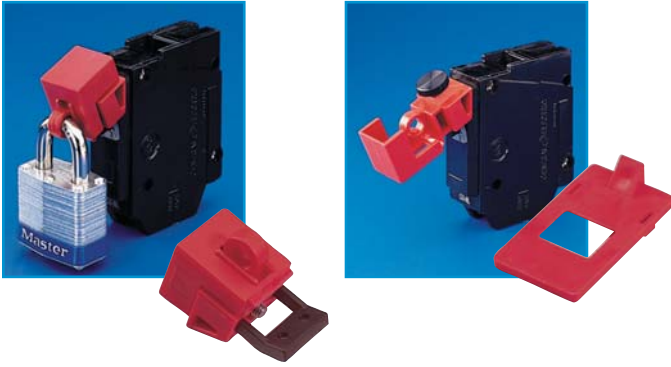
480/600V Single/Multi-Pole Breaker Lockout



- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew

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

Universal 120/277V Breaker Lockout



- Use thumbscrew to clamp lockout securely on to switch tongue, then pull cover over thumbscrew and lock in place to prevent clamp from being loosened
- New blade design provides tighter grip with less torque on thumbscrew

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

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.	Cat. No.
Hinged Single-Pole Breaker Lockout	3	44-810
Hinged Single-Pole Breaker Lockout	100	44-1810

Miniature Circuit Breaker Lockouts

Pins Out Standard



Pins In Standard



Pins Out Wide



Tie Bar



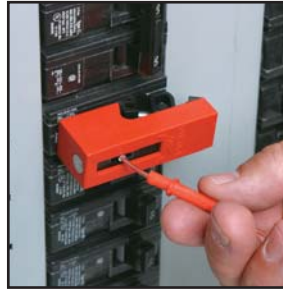
- A safe and effective method for locking out miniature circuit breakers, commonly used in European and Asian equipment
- Miniature Breaker Lockouts require NO TOOLS to install! The Lockout easily installs with the aid of a push button. The Tie Bar Style Lockout has a convenient thumb wheel for quick application.
- Recommended to lock with lightweight Xenoy padlocks (see page D-39) or other padlocks, the lockouts can take padlocks with a shackle diameter up to 9/32".
- Material: Glass-filled nylon

Description	Qty.	Cat. No.
Pins Out Standard	1	44-779
Pins In Standard	1	44-780
Pins Out Wide	1	44-784
Tie Bar	1	44-787

Circuit Breaker Lockout System

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

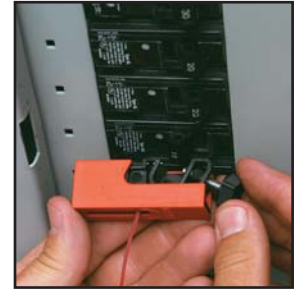
How the System Works



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



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



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

Technical Information

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



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



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



5. Low-profile lockouts allow panel doors to be closed on most breaker panels.

Snap-on

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



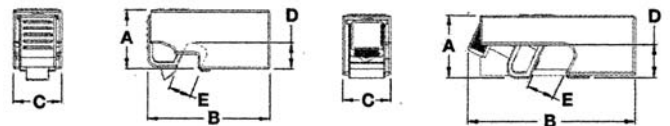
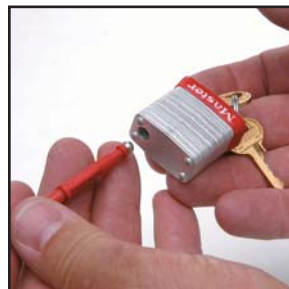
Clamp-on

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



"No Shackle" Locks

Especially useful when lockout devices will be kept at the panel in accordance with NEC regulations. Everything you need to lockout breakers is kept conveniently right at the point of need!



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

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

"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."
NEC 2002, Article 430.102(B) Motor



Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SOD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Airpax	Airpax	1		X*									
Allen Bradley	1492-CB1F	1								X			
Allen Bradley	1492-CB2F	2								X			
Allen Bradley	1492-CB3F	3								X			
Allen Bradley	1492-CB1G	1								X			
Allen Bradley	1492-CB2G	2								X			
Allen Bradley	1492-CB3G	3								X			
Allen Bradley	1492-CB1H	1								X			
Allen Bradley	1492-CB2H	2								X			
Allen Bradley	1492-CB3H	3								X			
Allen Bradley	1492-CB1DF	1								X			
Allen Bradley	1492-CB1DG	1								X			
Allen Bradley	1492-CB1DH	1								X			
Allen Bradley	1492-CB2DF	2								X			
Allen Bradley	1492-CB2DG	2								X			
Allen Bradley	1492-CB2DH	2								X			
ABB	JS	2-3			X**								
ABB	S1	3		X									
ABB	S3	3			X**								
ABB	F362	2								X			
ABB	F364	4								X			
ABB	F374	4								X			
ABB	E221	1								X			
ABB	E222	2								X			
ABB	E241	1								X			
ABB	E271	1								X			
ABB	E242	2								X			
ABB	E272	2								X			
ABB	E243	3								X			
ABB	E273	3								X			
ABB	E244	4								X			
ABB	E274	4								X			
ABB	S201-B	1								X			
ABB	S202-B	2								X			
ABB	S203-B	3								X			
ABB	S204-B	4								X			
ABB	S201-C	1								X			
ABB	S202-C	2								X			
ABB	S203-C	3								X			
ABB	S204-C	4								X			
ABB	S201-D	1								X			
ABB	S202-D	2								X			
ABB	S203-D	3								X			
ABB	S201-K	1								X			
ABB	S202-K	2								X			
ABB	S203-K	3								X			
ABB	S204-K	4								X			
ABB	S201P-K	1								X			
ABB	S202P-K	2								X			
ABB	S203P-K	3								X			
ABB	S222-K	4								X			
ABB	S221	1								X			
ABB	S222	2								X			
ABB	S223	3								X			
ABB	S224	4								X			
ABB	S251	1								X			
ABB	S252	2								X			
ABB	S253	3								X			
ABB	S261-B	1								X			
ABB	S262-B	2								X			
ABB	S263-B	3								X			
ABB	S264-B	4								X			
ABB	S261-C	1								X			

*Use with cleat #44-785

**Use with cleat #44-786

Wire Management

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SOD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
ABB	S262-C	2								X			
ABB	S263-C	3								X			
ABB	S264-C	4								X			
ABB	S261-D	1								X			
ABB	S262-D	2								X			
ABB	S263-D	3								X			
ABB	S271-K	1								X			
ABB	S272-K	2								X			
ABB	S273-K	3								X			
ABB	S274-K	4								X			
ABB	S281-K	1								X			
ABB	S282-K	2								X			
ABB	S283-K	3								X			
ABB	S281UC-K	1								X			
ABB	S282UC-K	2								X			
ABB	S283UC-K	3								X			
ABB	S201P-Z	1								X			
ABB	S202P-Z	2								X			
ABB	S203P-Z	3								X			
ABB	S201U-K	1								X			
ABB	S202U-K	2								X			
ABB	S203U-K	3								X			
ABB	S204U-K	4								X			
ABB	S201UP-K	1								X			
ABB	S202UP-K	2								X			
ABB	S203UP-K	3								X			
ABB	S204UP-K	4								X			
ABB	S201U-Z	1								X			
ABB	S202U-Z	2								X			
ABB	S203U-Z	3								X			
ABB	S204U-Z	4								X			
ABB	S201UP-Z	1								X			
ABB	S202UP-Z	2								X			
ABB	S203UP-Z	3								X			
ABB	S204UP-Z	4								X			
ABB	F202AC	2								X			
ABB	F672	2								X			
ABB	F204AC	4								X			
ABB	F674	4								X			
ABB	S281-Z	1								X			
ABB	S282-Z	2								X			
ABB	S283-Z	3								X			
ABB	S281UC-Z	1								X			
ABB	S282UC-Z	2								X			
ABB	S283UC-Z	3								X			
ABB	S501-B	1											X
ABB	S502-B	2											X
ABB	S503-B	3											X
ABB	S501-C	1											X
ABB	S502-C	2											X
ABB	S503-C	3											X
ABB	S501-D	1											X
ABB	S502-D	2											X
ABB	S503-D	3											X
ABB	S501-K	1											X
ABB	S502-K	2											X
ABB	S503-K	3											X
ABB	S501UC-B	1											X
ABB	S502UC-B	2											X
ABB	S503UC-B	3											X
ABB	S504UC-B	4											X
ABB	S501UC-K	1											X
ABB	S502UC-K	2											X

Lockout/Tagout

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
ABB	S503UC-K	3										X	
ABB	S504UC-K	4										X	
American Ckt. Bkr.	NEF	3		X*									
American Ckt. Bkr.	NJJ	3			X**	X							
AEG	E82S	2									X		
American Switch	C	1		X				X	X				
Bryant	BR	1	X	X					X				
Bryant	BR	2-3						X	X				
Buschmat	S46	1								X			
Challenger	C	1	X	X					X				
Challenger	C	2-3						X	X				
Challenger	CDK	2-3			X								
Challenger	LM	1		X					X				
Challenger	NEJ	1-2		X*					X				
Clipsal	4CB	1-3								X			
Crouse Hinds	MP	2						X	X				
Cutler Hammer	BA	1		X					X				
Cutler-Hammer	BAB	1	X	X					X				
Cutler-Hammer	BAB	2-3						X					
Cutler-Hammer	BD	1	X	X					X				
Cutler-Hammer	BR	1	X	X					X				
Cutler-Hammer	BR	2-3						X	X				
Cutler-Hammer	BRH	1	X	X					X				
Cutler-Hammer	BRH	2-3						X	X				
Cutler-Hammer	BRHH	2						X	X				
Cutler-Hammer	CC	3		X*									
Cutler-Hammer	CH	1	X	X				X	X				
Cutler-Hammer	CH	2-3						X	X				
Cutler-Hammer	CHH	3		X*									
Cutler-Hammer	CH2	4						X	X				
Cutler-Hammer	CHB	1	X	X				X	X				
Cutler-Hammer	CHB	2-3						X	X				
Cutler-Hammer	CHKD	2-3			X								
Cutler-Hammer	CHLD	2-4				X							
Cutler-Hammer	CHMDL	2-3				X							
Cutler-Hammer	CHND	2-4			X**								
Cutler-Hammer	CHP	1	X	X				X	X				
Cutler-Hammer	CHP	2-3						X	X				
Cutler-Hammer	CHQ	1						X	X				
Cutler-Hammer	CHQ	2						X	X				
Cutler-Hammer	CHSW	2-3						X	X				
Cutler-Hammer	CKD	2-3			X								
Cutler-Hammer	CL	1	X	X				X	X				
Cutler-Hammer	CL	2						X	X				
Cutler-Hammer	CLD	2-4				X							
Cutler-Hammer	CLDC	2-4				X							
Cutler-Hammer	CMDL	2-3				X							
Cutler-Hammer	CND	2-4			X**								
Cutler-Hammer	CNDC	2-4			X**								
Cutler-Hammer	CSR	1		X					X				
Cutler-Hammer	DK	2-3			X								
Cutler-Hammer	E125B	1-4		X					X				
Cutler-Hammer	E125E	1-4		X					X				
Cutler-Hammer	E125H	1-4		X					X				
Cutler-Hammer	E125S	1-4		X					X				
Cutler-Hammer	ED	2-4		X					X				
Cutler-Hammer	EDC	2-4		X					X				
Cutler-Hammer	EDH	2-4		X					X				
Cutler-Hammer	EFH	1-4		X					X				
Cutler-Hammer	EGB	1-4		X					X				
Cutler-Hammer	EGE	1-4		X					X				
Cutler-Hammer	EGS	1-4		X					X				
Cutler-Hammer	EHC	1-4		X					X				

*Use with cleat #44-785

**Use with cleat #44-786

Wire Management

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Cutler-Hammer	EHD	1-4		X					X				
Cutler-Hammer	FB	2-3		X					X				
Cutler-Hammer	FC	1-4		X					X				
Cutler-Hammer	FD	1-4		X					X				
Cutler-Hammer	FDB	2-4		X					X				
Cutler-Hammer	FDC	2-4		X					X				
Cutler-Hammer	FS	2-3		X					X				
Cutler-Hammer	GB	1-3		X					X				
Cutler-Hammer	GC	1-3		X					X				
Cutler-Hammer	GD	1-3		X					X				
Cutler-Hammer	GDB	1-3		X					X				
Cutler-Hammer	GHB	1-3		X					X				
Cutler-Hammer	GHBGFEP	1		X					X				
Cutler-Hammer	GHC	1-3		X					X				
Cutler-Hammer	GHCGFEP	1		X					X				
Cutler-Hammer	HBAW	1	X	X					X				
Cutler-Hammer	HBAW	2-3					X						
Cutler-Hammer	HBAX	1	X	X					X				
Cutler-Hammer	HBAX	2-3					X						
Cutler-Hammer	HFD	1-4		X					X				
Cutler-Hammer	HGHB	1		X					X				
Cutler-Hammer	HGHC	1		X					X				
Cutler-Hammer	HJD	2-4			X								
Cutler-Hammer	HKD	2-4			X								
Cutler-Hammer	HLD	2-4				X							
Cutler-Hammer	HMCP	2-3		X	X	X							
Cutler-Hammer	HMDL	2-3				X							
Cutler-Hammer	HMDLB	2-3				X							
Cutler-Hammer	HMPL	3			X**	X							
Cutler-Hammer	HND	2-4			X**								
Cutler-Hammer	HQP	1	X	X					X				
Cutler-Hammer	HQP	2					X						
Cutler-Hammer	JD	2-4			X								
Cutler-Hammer	JDB	2-3			X								
Cutler-Hammer	JDC	2-4			X								
Cutler-Hammer	KD	2-4			X								
Cutler-Hammer	KDB	2-4			X								
Cutler-Hammer	KDC	2-4			X								
Cutler-Hammer	LA	2-3			X								
Cutler-Hammer	LD	2-4				X							
Cutler-Hammer	LDB	2-3				X							
Cutler-Hammer	LDC	2-4				X							
Cutler-Hammer	LH	3			X								
Cutler-Hammer	LHB	3			X								
Cutler-Hammer	LJ	3							X				
Cutler-Hammer	MA	2-3			X**								
Cutler-Hammer	MC	2-3			X**								
Cutler-Hammer	MD	2-3				X							
Cutler-Hammer	MDL	2-3				X							
Cutler-Hammer	MDS	2-3				X							
Cutler-Hammer	NB	2-3				X							
Cutler-Hammer	ND	2-4			X**								
Cutler-Hammer	NDC	2-4			X**								
Cutler-Hammer	OPTIM	3			X**								
Cutler-Hammer	PB	2-3				X							
Cutler-Hammer	QBGF	1		X									
Cutler-Hammer	QBGF	2							X				
Cutler-Hammer	QBGFEP	1		X									
Cutler-Hammer	QBGFEP	2							X				
Cutler-Hammer	QBHGF	1		X									
Cutler-Hammer	QBHGFEP	1		X									
Cutler-Hammer	QBHW	1	X	X					X				
Cutler-Hammer	QBHW	2-3					X						

*Use with cleat #44-785

**Use with cleat #44-786

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D-29

Lockout/Tagout



Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SOD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Cutler-Hammer	QC	1	X	X					X				
Cutler-Hammer	QC	2-3						X	X				
Cutler-Hammer	QCD	1	X	X					X				
Cutler-Hammer	QCD	2-3						X	X				
Cutler-Hammer	QCGF	1		X									
Cutler-Hammer	QCGFEP	1		X									
Cutler-Hammer	QCHGF	1		X									
Cutler-Hammer	QCHGFEP	1		X									
Cutler-Hammer	QCHW	1	X	X					X				
Cutler-Hammer	QCHW	2-3						X	X				
Cutler-Hammer	QHCW	1	X	X					X				
Cutler-Hammer	QHCW	2-3						X	X				
Cutler-Hammer	QHCX	1	X	X					X				
Cutler-Hammer	QHCX	2-3						X	X				
Cutler-Hammer	QHPW	1	X	X					X				
Cutler-Hammer	QHPW	2-3						X					
Cutler-Hammer	QHPX	1	X	X					X				
Cutler-Hammer	QHPX	2-3						X					
Cutler-Hammer	QPGF	1		X									
Cutler-Hammer	QPGF	2							X				
Cutler-Hammer	QPGFEP	1		X									
Cutler-Hammer	QPGFEP	2							X				
Cutler-Hammer	QPHGF	1		X									
Cutler-Hammer	QPHGFEP	1		X									
Cutler-Hammer	QPHW	1	X	X					X				
Cutler-Hammer	QPHW	2-3						X					
Cutler-Hammer	WME	1-3								X			
Cutler-Hammer	WMF	1-3								X			
Cutler-Hammer	WMH	1-4								X			
Cutler-Hammer	WMM	1-4								X			
Cutler-Hammer	WMN	1-4								X			
Cutler-Hammer	WMS	1-4								X			
E-T-A	911220G	2								X			
E-T-A	911225	1									X		
FAZ	C16	1-4								X			
Fed. Pacific Elec.	2B	2											
Fed. Pacific Elec.	BAB	1		X					X				
Fed. Pacific Elec.	NA-single	3				X**			X				
Fed. Pacific Elec.	NA-tie bar	2							X				
Fed. Pacific Elec.	NB	1		X*					X				
Fed. Pacific Elec.	NBH GFI	1		X					X				
Fed. Pacific Elec.	NE/NEF	1-3		X*									
Fed. Pacific Elec.	NEJ	1-3		X*									
Fed. Pacific Elec.	NFJ	1-3		X									
Fed. Pacific Elec.	NJJ	1-3				X							
Fed. Pacific Elec.	NJL	1-3				X							
Fed. Pacific Elec.	NM	1-3				X							
Fed. Pacific Elec.	NP-single	1		X					X				
Frank Adams	P	1		X					X				
FUJI Electric	EA53B	3		X*									
FUJI Electric	EA203B	3		X*									
FUJI Electric	BU-ESB	3		X*									
FUJI Electric	BU-ESA	3		X*									
FUJI Electric	BU-FSB	3		X*									
General Electric	V	1-3									X		
General Electric	EH400	3				X							
General Electric	HQC	3		X					X				
General Electric	SED	2-3		X					X				
General Electric	SEH	2-3		X					X				
General Electric	SEL	2-3		X					X				
General Electric	SEP	2-3		X					X				
General Electric	SFH	2-3		X					X				
General Electric	SFL	2-3		X					X				

*Use with cleat #44-785

**Use with cleat #44-786

Wire Management

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
General Electric	SFP	2-3		X					X				
General Electric	SGD	2-3			X								
General Electric	SGH	2-3			X								
General Electric	SGL	2-3			X								
General Electric	SGLA	2-3			X								
General Electric	SGP	2-3			X								
General Electric	SRPG	3			X								
General Electric	TB	2		X*					X				
General Electric	TBC	2		X*					X				
General Electric	TE	1-3		X*					X				
General Electric	TEB	1-3		X*					X				
General Electric	TED	1-3		X*					X				
General Electric	TEF	1-3		X*					X				
General Electric	TEL	3		X*					X				
General Electric	TEML	3		X*					X				
General Electric	TEY	1-3		X					X				
General Electric	TF	1-3		X					X				
General Electric	TFC	3		X*					X				
General Electric	TFJ	2-3			X								
General Electric	TFK	2-3			X								
General Electric	TFL	3			X								
General Electric	THED	1-3		X*					X				
General Electric	THEF	1-3		X*					X				
General Electric	THFK	2-3			X								
General Electric	THHQB	2-3						X	X				
General Electric	THHQB-A	1	X	X					X				
General Electric	THHQB-S	1		X					X				
General Electric	THHQC	1-3						X	X				
General Electric	THHQC-A	1	X	X					X				
General Electric	THHQC-S	1		X					X				
General Electric	THHQL	2-3						X	X				
General Electric	THHQL-A	1	X	X					X				
General Electric	THHQL-S	1		X					X				
General Electric	THJK4	2-3			X**								
General Electric	THJK6	2-3			X**								
General Electric	THKM12	2-3				X							
General Electric	THKM8	2-3				X							
General Electric	THLC1	3		X*									
General Electric	THQB	2-3						X	X				
General Electric	THQB GF	1-2											
General Electric	THQB-A	1	X	X					X				
General Electric	THQB-S	1		X					X				
General Electric	THQC	2-3						X	X				
General Electric	THQC-A	1	X	X					X				
General Electric	THQC-AL	2-3						X	X				
General Electric	THQC-S	1		X					X				
General Electric	THQD	2-3		X*					X				
General Electric	THQDBL	3							X				
General Electric	THQL	2-3						X	X				
General Electric	THQL-A	1	X	X					X				
General Electric	THQL-S	1		X					X				
General Electric	TJ2	2-3			X**	X							
General Electric	TJ4	3			X								
General Electric	TJC	2-3		X*					X				
General Electric	TJD	2-3			X**								
General Electric	TJJ	2-3			X**								
General Electric	TJK	2-3			X**								
General Electric	TJS	2-3			X**								
General Electric	TK4V	3			X								
General Electric	TKC	3		X*					X				
General Electric	TKM	2-3				X							
General Electric	TKMA8	3				X							
General Electric	TQB	2-3					X		X				

*Use with cleat #44-785

**Use with cleat #44-786

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D-31

Lockout/Tagout

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD 00) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
General Electric	TQB-A	1	X	X					X				
General Electric	TQB-S	1		X					X				
General Electric	TQC	2-3						X	X				
General Electric	TQC-A	1	X	X					X				
General Electric	TQC-S	1		X					X				
General Electric	TQD	2-3		X									
General Electric	TQL	1-3											
General Electric	TQL	2-3											
General Electric	TQL-A	1	X	X					X				
General Electric	TQL-S	1		X					X				
General Electric	V	1-4									X		
GE Vynckier	Series E	1-4									X		
GE Vynckier	Series G	1-3									X		
Hager	453717	3								X			
Hager	MW216A	2								X			
Hager	MW620A	4								X			
Heinemann	LB	1		X*									
Heinemann	LF	1		X*									
Heinemann	LJ	1		X*									
Kapp	LS68	1									X		
Legrand	04302	2									X		
Legrand	06469	3									X		
Legrand	01908	1							X				
Legrand	01935	2											X
Legrand	01980	3-4											X
Lemag	SD62	1		X									
Merlin Gerin	B100A	2										X	X
Merlin Gerin	C32N	1-3							X				
Merlin Gerin	C45AD	3							X				
Merlin Gerin	C60a	1-4							X				
Merlin Gerin	C60H	1-4							X				
Merlin Gerin	C60N	1-4							X				
Merlin Gerin	C80A	3										X	X
Merlin Gerin	NC100H	1-3										X	
Merlin Gerin	NC125H	1-3										X	
Merlin Gerin	NC100L	1-4										X	
Merlin Gerin	NC100LH	1-4										X	
Merlin Gerin	NC100L MA	3										X	
Merlin Gerin	NC100N	1-4										X	
Merlin Gerin	C801N	3				X							
Merlin Gerin	C1251N	3				X							
Merlin Gerin	CE104N	3		X*									
Merlin Gerin	CK1200NA	3				X							
Merlin Gerin	CJ	3			X**								
Proteus	BSEN60947-3	2					X						
Proteus	AC22BS5419	2					X						
Proteus	C16	1							X				
Proteus	C6	1-3							X				
Siemens ITE	5SX11	1										X	
Siemens ITE	5SX12	2											X
Siemens ITE	5SX13	3											X
Siemens ITE	5SX21	1										X	
Siemens ITE	5SQ11	1										X	
Siemens ITE	5SQ12	2											X
Siemens ITE	5SQ13	3											X
Siemens ITE	5SQ16	4											X
Siemens ITE	5SN22	2											X
Siemens ITE	BL	1	X	X				X	X				
Siemens ITE	BL	2-3						X	X				
Siemens ITE	BLF-GFI	2						X	X				
Siemens ITE	BLH	1	X	X					X				
Siemens ITE	BLH	2-3						X	X				
Siemens ITE	BQ	1	X	X					X				

*Use with cleat #44-785

**Use with cleat #44-786

Wire Management

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Siemens ITE	BQ	2-3						X		X			
Siemens ITE	BQCH	1-3		X						X			
Siemens ITE	BQD	1-3		X						X			
Siemens ITE	BQH	1	X	X						X			
Siemens ITE	BQH	2-3						X		X			
Siemens ITE	CED6	2-3		X						X			
Siemens ITE	CFD6	2-3			X**								
Siemens ITE	CFD6-ETI	2-3			X**								
Siemens ITE	CJ3				X								
Siemens ITE	CJD6	2-3			X								
Siemens ITE	CJD6-ETI	2-3			X								
Siemens ITE	CLF	2			X								
Siemens ITE	CMD6	3				X							
Siemens ITE	CMD6-ETI	3				X							
Siemens ITE	CND6	3				X							
Siemens ITE	CPD6	3				X							
Siemens ITE	CQD	1-3		X*						X			
Siemens ITE	E2	1-3		X						X			
Siemens ITE	E4	1-3		X						X			
Siemens ITE	ED	1-3		X						X			
Siemens ITE	ED4	1-3		X						X			
Siemens ITE	ED6	1-3		X						X			
Siemens ITE	ED6-ETI	3		X						X			
Siemens ITE	EE3	3		X*						X			
Siemens ITE	EH3	3		X*						X			
Siemens ITE	EQP	4						X		X			
Siemens ITE	EQT QF	3											
Siemens ITE	ET	3		X*						X			
Siemens ITE	FD6A	2-3			X**								
Siemens ITE	FJ2-B	2-3		X*	X**								
Siemens ITE	FJ3	2			X								
Siemens ITE	FJ6	2			X**								
Siemens ITE	FXD6A	2-3			X**								
Siemens ITE	FXD6-ETI	2-3			X**								
Siemens ITE	GF	1		X						X			
Siemens ITE	HBL	1	X	X						X			
Siemens ITE	HBL	2-3						X		X			
Siemens ITE	HBQ	1	X	X						X			
Siemens ITE	HBQ	2-3						X		X			
Siemens ITE	HE4	1-3		X						X			
Siemens ITE	HED4	1-3		X						X			
Siemens ITE	HED6	2-3		X						X			
Siemens ITE	HFD6	2-3			X**								
Siemens ITE	HFXD6	2-3			X**								
Siemens ITE	HHED6	2-3		X						X			
Siemens ITE	HHFD6	2-3			X**								
Siemens ITE	HHJD6	2-3			X								
Siemens ITE	HHJXD6	2-3			X								
Siemens ITE	HJD6	2-3			X								
Siemens ITE	HJXD6	2-3			X								
Siemens ITE	HMD6	2-3				X							
Siemens ITE	HMXD6	2-3				X							
Siemens ITE	HN3	2				X							
Siemens ITE	HND6	2-3				X							
Siemens ITE	HNXD6	2-3				X							
Siemens ITE	HPD6	3				X							
Siemens ITE	HPXD6	3				X							
Siemens ITE	HQJ2-H	3		X						X			
Siemens ITE	HQP	1	X	X						X			
Siemens ITE	HQP	2-3					X			X			
Siemens ITE	HQPP	1	X	X						X			
Siemens ITE	HQPP	2-3					X			X			
Siemens ITE	HQPPH	2					X			X			

*Use with cleat #44-785

**Use with cleat #44-786

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D-33

Lockout/Tagout



Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SOD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Siemens ITE	HRD6	3				X							
Siemens ITE	HRXD6	3				X							
Siemens ITE	JD2	3				X							
Siemens ITE	JD6-A	2-3			X								
Siemens ITE	JJ3				X								
Siemens ITE	JJ6	3				X							
Siemens ITE	JL3	3			X								
Siemens ITE	JXD2-A	2-3			X								
Siemens ITE	JXD6-A	2-3				X							
Siemens ITE	KM3	3				X							
Siemens ITE	LL3	3			X								
Siemens ITE	LL6	3				X							
Siemens ITE	LXD6-ETI	3				X							
Siemens ITE	MD6	2-3				X							
Siemens ITE	MXD6	2-3				X							
Siemens ITE	MXD6-ETI	2-3				X							
Siemens ITE	ND6	2-3				X							
Siemens ITE	NH3-F800												
Siemens ITE	NXD6	2-3				X							
Siemens ITE	PD6	3				X							
Siemens ITE	PXD6	3				X							
Siemens ITE	QJ2	2-3		X*					X				
Siemens ITE	QJ2-H	2-3		X*					X				
Siemens ITE	QJH2	2-3		X*					X				
Siemens ITE	QP	1	X	X					X				
Siemens ITE	QP	2-3					X		X				
Siemens ITE	QP1	1		X					X				
Siemens ITE	QPH	1	X	X					X				
Siemens ITE	QPH	2-4					X		X				
Siemens ITE	QPP	1	X	X					X				
Siemens ITE	QPP	2-3					X		X				
Siemens ITE	QPPH	1	X	X					X				
Siemens ITE	QPPH	2-3					X		X				
Siemens ITE	RD6	3				X							
Siemens ITE	RXD6	3				X							
Siemens ITE	SCMD6	3				X							
Siemens ITE	SCND6	3				X							
Siemens ITE	SHLD6-A	3				X							
Siemens ITE	SHMD6	3				X							
Siemens ITE	SHND6	3				X							
Siemens ITE	SMD6	3				X							
Siemens ITE	SND6	3				X							
Siemens ITE	SHPD6	3				X							
Siemens ITE	SPD6	3				X							
Siemens ITE	3VF3	3		X									
Simplex	NX	3			X**								
Square D	EDB	1-3		X					X				
Square D	EGB	1-3		X					X				
Square D	EH4	1-3		X					X				
Square D	EHB	1-3		X					X				
Square D	EHB	2-3					X		X				
Square D	EJB	1-3		X					X				
Square D	EZ	3				X							
Square D	FA	1-3		X*									
Square D	FAL	1-3		X*									
Square D	FC	3		X*									
Square D	FCL	2-3		X*									
Square D	FDA			X					X				
Square D	FGA	3							X				
Square D	FH	1-3		X*									
Square D	FHL	1-3		X*									
Square D	FHL-DC	3		X*									
Square D	FHP	3		X*									

*Use with cleat #44-785

**Use with cleat #44-786

Wire Management

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Square D	FI	3		X*									
Square D	FIL	3		X*									
Square D	FY	1		X*									
Square D	GJL	3		X*									
Square D	KA	2-3		X*									
Square D	KAL	2-3		X*									
Square D	KAP				X								
Square D	KC	2-3		X*									
Square D	KCL	2-3		X*									
Square D	KH	2-3		X*									
Square D	KHL	3		X*									
Square D	KI	2-3		X*									
Square D	KIL	2-3		X*									
Square D	LA	2-3			X**								
Square D	LAL	2-3			X**	X							
Square D	LAP	3			X**	X							
Square D	LC	3				X							
Square D	LCP	3				X							
Square D	LH	2-3			X**								
Square D	LHL	3			X**	X							
Square D	LHP				X**	X							
Square D	L2	3				X							
Square D	LXL	3				X							
Square D	MA	2-3			X**								
Square D	MA	3				X							
Square D	MAL	3				X							
Square D	MH	2-3				X							
Square D	MH	2-3			X**								
Square D	MHL	2-3				X							
Square D	ML-1	3			X**								
Square D	ML-3	3				X							
Square D	MXL	3				X							
Square D	Q1B	2-3		X					X				
Square D	Q1L	2-3		X					X				
Square D	Q2	2-3		X*									
Square D	Q2H	2-3		X*									
Square D	Q2L	2-3		X*									
Square D	Q2MT	2-3		X*									
Square D	Q4	2-3			X**								
Square D	Q4L	2-3			X**								
Square D	QO	1						X					
Square D	QO	2-3	X	X				X	X				
Square D	QOB	1						X					
Square D	QOB	2-3	X	X				X	X				
Square D	QOB-H	2						X					
Square D	QOB-VH	1	X	X				X					
Square D	QOB-VH	2-3					X						
Square D	QO-H	2						X					
Square D	QOM1-VH	2		X					X				
Square D	QOM2-VH	2		X					X				
Square D	QO-SWN	2-3	X	X				X	X				
Square D	QOU	1						X					
Square D	QOU	2-3		X				X	X				
Square D	QOU w/tie bar	2-3					X		X				
Square D	QO-VH	1						X					
Square D	QO-VH	2-3	X	X				X	X				
Square D	QYU	1						X					
Square D	Y1				X								
Sursum	EA53	3									X		
Sylvania GTE	QC	2					X		X				
Sylvania GTE	Type C	2					X		X				
Thomas & Betts	F Frame	1-3		X					X				
Toshiba	E225B	3		X*									

*Use with cleat #44-785 **Use with cleat #44-786
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Lockout/Tagout

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts					Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
			120V Snap On (w/hole) 44-810	120/277V Clamp On (no hole) 44-809	480/600V Clamp On (no hole) 44-807	Oversize 480/600V 44-823	Multi-Pole (tie bar) 44-783	Snap On (SQD QO) 44-768	Clamp On (Universal) 44-764	Pin Out Standard 44-779	Pin In Standard 44-780	Pin Out Wide 44-784	Multi-Pole w/Tie Bar 44-787
Westinghouse	BA w/tie bar	2-3					X						
Westinghouse	BA	1-3	X	X					X				
Westinghouse	BAB	1-3	X	X					X				
Westinghouse	BR	1-3	X	X					X				
Westinghouse	BR w/tie bar	2-3					X		X				
Westinghouse	BRH w/tie bar	2-3					X						
Westinghouse	CA			X*									
Westinghouse	DA				X								
Westinghouse	DK				X								
Westinghouse	EB	1-3		X*					X				
Westinghouse	ED			X					X				
Westinghouse	EH	1-3		X					X				
Westinghouse	EHB	1-3		X*									
Westinghouse	EHD	1-3		X					X				
Westinghouse	FA	3		X*					X				
Westinghouse	FB	2-3		X*					X				
Westinghouse	FD	1-4		X					X				
Westinghouse	FDB	2-4		X					X				
Westinghouse	FDC	2-4		X					X				
Westinghouse	FP	3			X**								
Westinghouse	GB	1-3		X					X				
Westinghouse	GBH	1-3		X					X				
Westinghouse	GHB	1-3		X					X				
Westinghouse	GR	3			X								
Westinghouse	HBAW	1	X	X					X				
Westinghouse	HBAX	1	X	X					X				
Westinghouse	HCA	3		X*					X				
Westinghouse	HFB	1-3		X*					X				
Westinghouse	HFD	1-4		X					X				
Westinghouse	HKD	3			X								
Westinghouse	HLA				X								
Westinghouse	HLB				X								
Westinghouse	HMC				X								
Westinghouse	HMCP			X*					X				
Westinghouse	HNC					X							
Westinghouse	HQNP	3		X					X				
Westinghouse	HQP	1	X	X					X				
Westinghouse	JA				X								
Westinghouse	JB	3			X								
Westinghouse	JD	2-4			X								
Westinghouse	JDB	3			X								
Westinghouse	KA	3			X**								
Westinghouse	KB				X								
Westinghouse	LA	3			X**								
Westinghouse	LB				X								
Westinghouse	LBB	3			X								
Westinghouse	LH				X								
Westinghouse	MA	2-3			X**								
Westinghouse	MC	2-3			X**								
Westinghouse	MCC	2-3			X**								
Westinghouse	MCPO	3		X*					X				
Westinghouse	NB					X							
Westinghouse	P	3		X					X				
Westinghouse	PA	3											
Westinghouse	QBHW	1	X	X					X				
Westinghouse	QC	1	X	X					X				
Westinghouse	QC	3					X						
Westinghouse	QCHQ	1	X	X					X				
Westinghouse	QHCW	1	X	X					X				
Westinghouse	QHCX	1	X	X					X				
Westinghouse	QHPW	1	X	X					X				
Westinghouse	QPHW	1	X	X					X				
Westinghouse	Quicklag P			X					X				

*Use with cleat #44-785

**Use with cleat #44-786

Circuit Breaker Mfg.	Breaker Type	# of Poles	Standard Breaker Lockouts				Circuit Breaker LO Sys.		Mini Circuit Breaker Lockouts			
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Westinghouse	RE			X				X				
Westinghouse	RH	3			X							
Westinghouse	WPHX	1	X	X				X				
Wylex	WRS40/2	2							X			
Zinsco	HQB	3		X				X				
Zinsco	QB	1		X				X				
Zinsco	QCB w/Tie Bar	2				X		X				
Zinsco	Type Q	1		X				X				
Zinsco	Type T	1		X				X				

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 wall-mounted single or three-way 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

Plug Lockouts

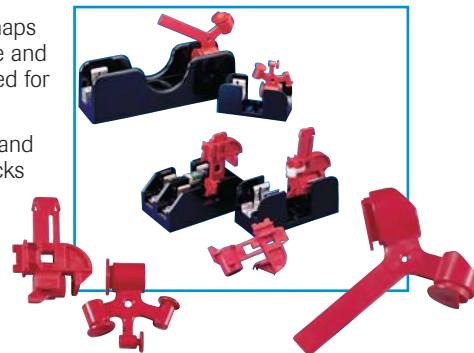
- Accommodate a variety of electrical plug and cord sizes to prevent accidental connection or disconnection
- Durable plastic body resists wear, chemicals and job-site abuse
- Accommodates cable ties or padlocks (with up to 3/8 in. shackles)



Description	Size	Cat. No.
Plug Lockouts – 110V	2 in. x 2 in. x 3-1/2 in.	44-818
Plug Lockouts – 220/550V	3-1/4 in. x 3-1/4 in. x 7 in.	44-819

Fuse Blockout and Lockout Devices

- Fuse lockout snaps easily into place and can be cable tied for added security
- Fits most Buss and Gould fuse blocks



Description	Qty./Card	Cat. No.
1/4, 9/32 and 9/16 in. Fuse Lockout	2	44-815

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. 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 Lockout

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



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

Gate Valve Lockouts

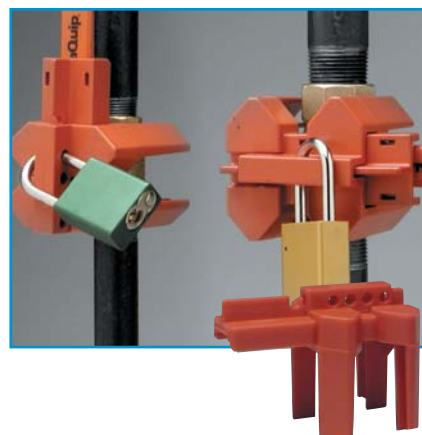
- Unique patent pending rotating design allows for easier installation in confined space applications
- Each size rotates into itself and nests within the next larger size to save space in storage
- Up to four workers can apply their personal safety locks
- Complete with high-visibility permanent safety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



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

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

Aluminum Safety Lockout Padlocks



- High visibility, baked-on powder coated finish stays bright
- Ideal for corrosive and tough environments
- 1-1/16 in. shackle clearance
- 1-9/16 in. wide lock with 1/4 in. shackle clearance
- Hardened shackles for superior resistance to cutting
- Keyed alike, master-keyed, additional colors and engraving available by special order

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
- 1-1/2 in. wide lock with 9/32 in. shackle diameter
- Keyed-alike and Master-Keyed locks available by special order



Bumper Color	3/4 In. Shackle Clearance Cat. No.	2 In. Shackle Clearance Cat. No.
Blue	44-900	44-901
Black*	44-902	44-903
White*	44-904	44-905
Red	44-906	44-907
Green*	44-908	44-909
Yellow*	44-910	44-911

*Special order thru Customer Service.

Xenoy Safety Lockout Padlocks w/Key Retention

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



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

Lock Labels



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

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

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

Heavy-Duty Lockout Tags



- 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; fastener included
- Exceeds OSHA's 50-lb. pullout requirement

Legend	Type	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 (Photo ID - Self Sealant)	Heavy-Duty Laminated	Card of 5	44-834

Bilingual Lockout Tags



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

Legend	Qty./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.	Cat. No.
1 in.	3	44-800
1 in.	50	44-1800
1-1/2 in.	2	44-801

Labeled Safety Lockout Hasps

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

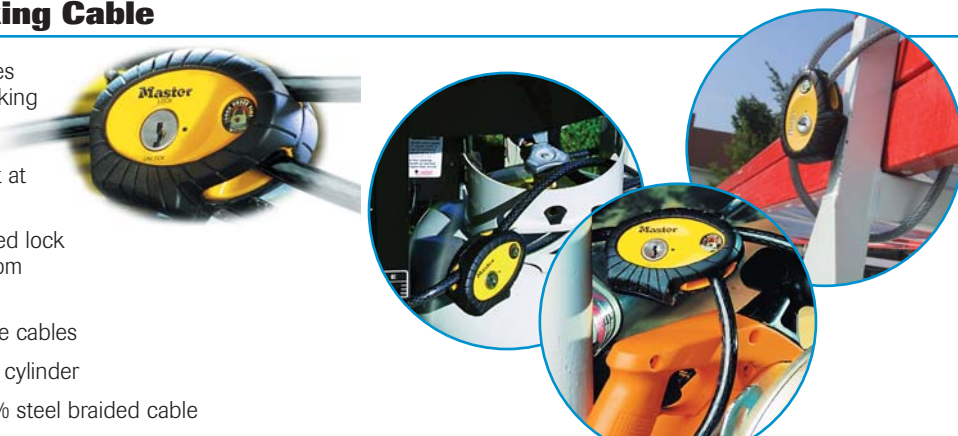
Lockout/Tagout

Python™ Adjustable 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

*Special order thru Customer Service.

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

*Special order thru Customer Service.



Lockout Signs

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



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

Safety Signs

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

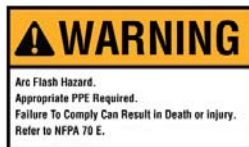


Legend	Material	Size (In.)	Cat. No.
Danger – High Voltage	Fiberglass	10 x 14	44-862
Danger – High Voltage	Self-Sticking Polyester	7 x 10	44-863
Danger – High Voltage – Keep Out	Fiberglass	10 x 14	44-880
Danger – High Voltage – Keep Out	Self-Sticking Polyester	7 x 10	44-881
Danger High Voltage – Spanish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

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.

Required Labels –
44-892/44-893



Arc Flash Labels
44-894/44-895



Recommended Signs –
44-896



Description	Type	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