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# **SECTION INDEX** Click on any section below to go that portion of the catalog

Training ProductsA1
Lockout Devices and Kits
Padlocks, Hasps and Accessories C1
Tags, Signs and Labels D1
Tapes, Letters and Numbers E1
Related ProductsF1
Regulatory Standards
IndexH1

#### Lockout/Tagout Requirements

The Occupational Safety and Health Administration (OSHA) and other International Standards mandate that all energy sources be isolated and locked out to protect employees from injuries caused by the accidental startup of equipment under repair or service. OSHA 1910.147 outlines the control of this hazardous energy with an effective lockout/tagout program. Panduit offers a complete line of lockout/tagout and safety products to aid in compliance with OSHA 1910.147 and other related International Standards including:





- Training manuals, videos, and templates/ checklists to help train employees on the requirements of lockout/tagout and assist safety professionals in establishing and maintaining a compliant lockout/tagout system
- Extensive line of universal, high quality devices to lockout a variety of energy sources
- Lockout/tagout kits and stations that offer a convenient method to store and contain lockout devices, tags and padlocks
- High quality, durable, secure padlocks in a variety of styles, colors and keying configurations that ensure safety and security
- Extensive line of safety identification products that include tags, signs and warning labels

Panduit offers everything you need to establish and maintain an effective lockout/tagout program. Ensure employee safety while conducting lockout/tagout procedures by utilizing Panduit innovative products and high quality materials.

### **Training Products**

# OSHA Lockout/Tagout Compliance and Training Kit



- Takes you step-by-step through the process of bringing your company into compliance with OSHA Standard 1910.147; also provides training materials and devices for educating employees on the the elements and applications of lockout tagout
- This complete package includes:

**Training video:** DVD video "Life is on the Line" for training employees on the elements and application of lockout/tagout (LOTO)

Compliance CD containing:

**Training materials:** Training agenda, quiz, certificate, and key points for hands on device training

**Templates:** Step-by-step interactive presentation facility and machine specific procedure templates; equipment, training, and inspection logs; lockout/tagout program template, periodic and lockout/tagout checklists

Components: Demonstration components for thorough "hands-on" training including circuit breakers, ball valves, etc., and the compatible lockout devices

Part Number	Part Description	Std. Pkg. Qty.
PSL-LOTO-TRAIN	OSHA lockout/tagout compliance kit	1

#### **Lockout/Tagout Training Video**



- "A Life on the Line" Lockout/Tagout Training Video provides thorough instruction on OSHA recommended safety practices and procedures for lockout/tagout
- Please visit www.panduit.com/safety to request a free copy of the Lockout/Tagout Training Video
- Also available in Spanish

#### **Lockout Quick Reference Card**



- SHUTDOWN
  Inform operator and supervisor about work,
  to be done
  to
- 1) Assure conjument operationally infact, clear a personnel 8 Jose
  2) Roifly all affected employees about starbup and betworkingsut device removal 3) Assure Jectowisespace is removal from each energy-soluting device. See section Rej and R(t) of 29 CPR 1910.147 for specific requirements of the standard).
- Provides those employees responsible for lockout/tagout with a constant reminder of the OSHA recommended steps for shutdown and startup
- Current calendar year is printed on back side

Part Number	Part Description	Number of Cards Included	Std. Pkg. Qty.	
	2.13" x 3.38", lockout/tagout steps/calendar wallet card.	25	1	4

#### **Lockout Devices and Kits**

#### Circuit Breaker Lockout Devices



**PSL-CBIL** 

- · Quickly locks circuit breakers in the off position using a screwdriver
- · Compact, universal design fits a wide range of single, double, and triple handle circuit breakers
- Accommodates breaker handles 0.30" - 0.60" (7.6mm x 15.2mm) tall and 0.25" - 0.44" (6.6mm x 11.2mm) thick
- Easily secured to circuit breaker without modifications or holes in the breaker handle
- Constructed of polycarbonate and stainless steel for industrial and harsh applications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CB	Universal circuit breaker lockout.	1	10
PSL-CBIL	Circuit breaker lockout device for use with Square D I-LINE^/Federal Pacific (FPE) circuit breakers.	1	10

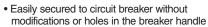
Al-LINE is a registered trademark of Square D Company.

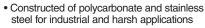
#### "No Tool" Circuit Breaker Lockout Devices





- Quickly locks circuit breakers in the off position without any tools
- · Compact, universal design fits a wide range of single, double, and triple handle circuit breakers
- Accommodates breaker handle sizes ranging from 0.30" - 0.60" (7.6mm x 15.2mm) tall and 0.16" - 0.35" (4.1mm x 8.9mm) thick







PSL-CBILNT

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CBNT	"No Tool" universal circuit breaker lockout.	1	10
PSL-CBILNT	"No Tool" circuit breaker lockout for use with Square D I-LINE^/Federal Pacific (FPE) circuit breakers.	1	10

Al-LINE is a registered trademark of Square D Company.

#### Large Handle Circuit Breaker Lockout Device





- Quickly locks circuit breakers in the off position without any tools
- Compact, universal design fits a wide range of large handle circuit breakers
- Accommodates breaker handle dimensions up to 0.80" thick x 3.00" wide (20.3mm x 76.2mm)
- Easily secured to circuit breaker without modifications or holes in the breaker handle
- Constructed of polycarbonate and stainless steel for industrial and harsh applications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CBL	Large handle circuit breaker lockout.	1	10

### NEW!

## Miniature Circuit Breaker Lockout Devices

and motor control



- 1111
- orientations allow adjacent circuit breakers to be locked out individually

  PSL-MCB can be installed using a

• On the PSL-MCBNT, multiple padlock

PSL-MCB

PSL-MCBNT

screwdriverPSL-MCBNT can be installed by hand with no tool required

 Quickly locks out miniature circuit breakers commonly used in industrial automation

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-MCB	Universal miniature circuit breaker lockout.	1	10
PSL-MCBNT	No-Tool miniature circuit breaker lockout.	1	10

• Packages of commonly used circuit breaker lockout devices

Circuit Breaker Lockout Device Kits

Part Number	Contents	Std. Pkg. Qty.
PSL-CBKIT	(1) PSL-CBL large handle circuit breaker lockout device. (1) PSL-CBNT "No Tool" universal circuit breaker lockout device. (1) PSL-CBILNT "No Tool" universal circuit breaker lockout device for Square D/I-Line^.	1
PSL-CB-3PC	(3) PSL-CB universal circuit breaker lockout device.	1

<sup>^</sup> I-LINE is a registered trademark of Square D Company.

#### **Plug Lockout Device**





PSL-P

- Locks a wide range of individual plugs to prevent energization
- Works with plugs that have a hole in a blade of the plug
- Constructed of polycarbonate and stainless steel for industrial and harsh applications
- Accommodates padlocks with shackle lengths of 1.50" (38.1mm)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-P	Plug lockout.	1	10

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#### **Global Plug Lockout Device**







- · Compact universal design accommodates most 220 - 240 Volt plugs
- · Quickly and easily installed
- · Polycarbonate construction offers great strength and durability
- · Required lock with shackle diameter between 0.20" (6.0mm) and 0.37" (9.0mm)
- Accepts Panduit PSL-6, PSL-7, and PSL-8 series locks

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
	Global plug lockout for 220 – 240 Volt AC/Industrial Plugs.	1	10

Note: Cannot be used with North American 120 VAC plugs

#### **Cord Lockout Devices**

· Locks out a wide range of corded plugs to prevent energization





Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CL110	Lockout for small corded plugs, 2.00" x 2.00" x 3.50" (50.8mm x 50.8mm x 88.9mm) outside dimensions.	1	10
PSL-CL480	Lockout for large corded plugs, 3.25" x 3.25" x 7.00" (82.6mm x 82.6mm x 177.8mm) outside dimensions.	1	10

#### **Receptacle Blockout Device**



- Blocks out receptacles to prevent equipment damage from overloading circuits or electrical interference
- Accommodates industrial electrical receptacles with two or three blades



PSL-ERB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-ERB	Blockout for 120 V electrical receptacle.	1	25

#### **Toggle Switch Lockout Device**





PSL-WS

- Fits most toggle switches and some small circuit breakers
- Easily attached without removal of faceplate or screws
- Accommodates switches
   0.45" 0.78" (11.4mm 19.8mm) tall,
   0.25" 0.38" (6.4mm 9.7mm) wide,
   0.25" 0.40" (6.4mm 10.2mm) thick
- Constructed of polycarbonate and stainless steel for industrial and harsh applications

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-WS	Toggle switch lockout.	1	10

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#### Toggle/Rocker Switch Lockout Device



- · Designed for switches that are frequently locked out
- · Locks out toggle/rocker switches controlling electrical supply
- · Accommodates standard wall switch faceplates
- Install using faceplate screws



PSL-WS1A

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-WS1A	Toggle/rocker switch lockout.	1	10

#### Gate Valve Lockout Devices



- · Gate valves regulating hydraulic, pneumatic, and chemical energy can be locked out quickly and easily
- · Accommodates valve handles ranging from 1.00" (25.4mm) to 13.00" (330.2mm) in diameter
- · Constructed of rugged polypropylene providing strength, durability, and added security

PSL-V2A

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-V2A	Gate valve lockout, accommodates 1.00" – 2.50" diameter handle, red.	1	10
PSL-V4*	Gate valve lockout, accommodates 2.50" – 5.00" diameter handle, red.	1	10
PSL-V6A**	Gate valve lockout, accommodates 2.50" – 6.50" diameter handle, red.	1	10
PSL-V9 <sup>^</sup>	Gate valve lockout, accommodates 6.50" – 10.00" diameter handle, red.	1	10
PSL-V13^	Gate valve lockout, accommodates 10.00" – 13.00" diameter handle, red.	1	_

- \* For available colors other than red, add suffix BLU (Blue), GRN (Green), or YEL (Yellow).
- \*\* For available colors other than red, replace A at end of part with suffix BLU (Blue), GRN (Green), or YEL (Yellow).
- ^ Part numbers PSL-V9 and PSL-V13 are also available in Yellow, add suffix YEL (Yellow) to part number.

Regulatory Standards



#### **Ball/Butterfly Valve Lockout Devices**



 Ball valves regulating hydraulic, pneumatic, and chemical energy can be locked out quickly and easily

 Accommodates valve diameters ranging from 0.25" (6.4mm) to 8.00" (203.2mm)





Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-BV1	Ball valve lockout, accommodates .25" – 1.00" (6.4mm – 25.4mm) valve pipe diameter.	1	10
PSL-BV2	Ball valve lockout, accommodates 1.25" - 3.00" (31.8mm - 76.2mm) valve pipe diameter.	1	10
PSL-BV3	Ball valve lockout, accommodates 2.00" – 8.00" (50.8mm – 203.2mm) valve pipe diameter.	1	10
PSL-BFV	Butterfly valve lockout, accommodates most butterfly valve handles.	1	10

#### **Multiple Lockout Device**





**PSL-MLD** 

- Device can be used alone as a lockout hasp or with provided 0.19" (4.8mm) diameter cable to lockout electrical disconnects, gate valves, or large cumbersome devices
- · Compact and easy to install
- Constructed of rugged polycarbonate and stainless steel for industrial and harsh applications
- · Vinyl coated galvanized steel cable up to 176°F (80°C); nylon coated galvanized steel cable up to 230°F (110°C)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-MLD	Multiple lockout device; includes lockout hasp and 6.00' (1.8m) vinyl coated galvanized steel cable with loophole.	1	20
PSL-MLDT	Multiple lockout device; includes lockout hasp and 6.00' (1.8m) nylon coated high temperature rating galvanized steel cable with loophole.	1	20
PSL-MLDH-X	Multiple lockout device (hasp only).	10	_
PSL-MLDC	6.00' (1.8m) vinyl coated galvanized steel cable with loophole (cable only).	1	5
PSL-MLDCT	6.00' (1.8m) nylon coated high temperature rating galvanized steel cable with loophole (cable only).	1	5
PSL-MLDC200	200.00' (61.0m) vinyl coated galvanized steel cable on roll without loophole (cable only).	1	_
PSL-MLDC200T	200.00' (61.0m) nylon coated high temperature rating galvanized steel cable on roll without loophole (cable only).	1	_
PSL-MLD-CRIMP	Additional crimps for creating cable loopholes, ten Crimps per package	10	50
PSL-MLD-TOOL	Tool for installing crimps on custom-length cables using the PSL-MDLC200.	1	_

**Lockout Device**:

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#### **Pneumatic Energy Lockout Device**





**PSL-PEL** 

- Quickly locks out pneumatic energy devices without costly tool modifications or inconvenient in-line valves
- Installs on the male pneumatic fitting, preventing the ability to engage into the female fitting
  - Universal compact design makes the pneumatic lockout device easy to transport and install on almost any fitting, even in tight spaces
- Rugged stainless steel construction offers superior strength, durability, added security and corrosion resistance

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PEL	Pneumatic energy lockout device, 3.50" (88.9mm) diameter x 0.10" (2.5mm) thick.	1	20

#### **Electrician Lockout Kit**



 Kit contains a variety of lockout/tagout devices commonly used by an individual electrician

Part Number	Contents	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PK-EA*	<ol> <li>Screwdriver.</li> <li>PSL-PK pouch.</li> <li>PSL-8 red non-conductive lockout padlock.</li> <li>PSL-MLD multiple lockout device.</li> <li>PSL-WS wall switch lockout device.</li> <li>PSL-CBNT "No Tool" circuit breaker lockout device.</li> <li>PSL-P plug lockout device.</li> <li>PSL-P plug lockout device.</li> <li>PVT-30 electrician's blocking tags.</li> </ol>	1	5

<sup>\*</sup>For the electrician's lockout kit available with signage in French, add suffix -F to part number.

#### **Contractor Lockout Kit**



- Kit contains a variety of lockout/tagout devices commonly used by electrical contractors and multiple electricians
- Contains items from electrician lockout kit above and additional components

Part Number	Contents	Std. Pkg. Qty.
PSL-KT-CONA*	<ol> <li>Screwdriver.</li> <li>PSL-KT carrying case – 5.00" x 3.50" x 11.00" (127.0mm x 88.9mm x 279.4mm).</li> <li>PSL-8 red non-conductive lockout padlocks.</li> <li>PSL-1A lockout hasp – 1.00" (25.4mm) jaw diameter.</li> <li>PSL-MLD multiple lockout device.</li> <li>PSL-WS wall switch lockouts.</li> <li>PSL-CBNT "No Tool" circuit breaker lockout device.</li> <li>PSL-P plug lockouts.</li> <li>Tags) PVT-98 "EQUIPMENT LOCKED OUT BY" safety tags.</li> </ol>	1

<sup>\*</sup>For the contractor lockout kit available with signage in French, add suffix -F to part number.

#### Maintenance/MRO Lockout Kit



 Kit contains a variety of lockout/tagout devices commonly used by maintenance and repair personnel in a facility

Part Number	Contents	Std. Pkg. Qty.
PSL-KT-MROA*	<ol> <li>Screwdriver.</li> <li>PSL-BX carrying case - 6.50" x 5.00" x 14.50" (165.1mm x 127.0mm x 368.3mm).</li> <li>PSL-8 red non-conductive lockout padlocks.</li> <li>PSL-MLD multiple lockout device.</li> <li>PSL-WS wall switch lockouts.</li> <li>PSL-CBNT "No Tool" circuit breaker lockout device.</li> <li>PSL-P plug lockouts.</li> <li>PSL-V6A gate valve lockout - 6.50" (165.1mm).</li> <li>PSL-V2A gate valve lockout - 2.50" (63.5mm).</li> <li>PSL-BV2 ball valve lockout - 3.00" (76.2mm).</li> <li>PSL-CL110 110V plug lockout.</li> <li>PVT-44 "DO NOT OPERATE" maintenance tags.</li> </ol>	1

<sup>\*</sup>For the MRO lockout kit available with signage in French, add suffix -F to part number.



#### **Power and Panel Distribution Lockout Kit**



- Kit contains a variety of lockout/tagout devices commonly used by maintenance and repair personnel to isolate electrical distribution panels
- Durable steel case can be wall mounted or used as a portable case

Part Number	Contents	Std. Pkg. Qty.
PSL-KT-PWR*	<ol> <li>Screwdriver.</li> <li>PSL-STATION metal wall mount cabinet.</li> <li>PSL-8 red non-conductive lockout padlocks.</li> <li>PSL-MLD multiple lockout device.</li> <li>PSL-CBNT "No Tool" circuit breaker lockout device.</li> <li>PSL-CBILNT circuit breaker lockout device for Square D I-LINE^/Federal Pacific (FPE) circuit breakers.</li> <li>PSL-CBL large handle circuit breaker lockout devices.</li> <li>PSL-P plug lockout.</li> <li>PVT-23-Q "DO NOT OPERATE ELECTRICIANS AT WORK" tags.</li> </ol>	1

<sup>\*</sup>For the power and panel distribution lockout kit available with signage in French, add suffix -F to part number.

#### **Metal Wall Mount Cabinet (Case only)**



- Conveniently store lockout tools and accessories in one common area
- Durable steel case can be wall-mounted (nine mounting holes) or used as a portable case
- 14.75" x 10.25" x 4.63" (374.7mm x 260.4mm x 117.6mm)

Part Number	Part Description	Std. Pkg. Qty.
PSL-STATION	Metal wall mount cabinet.	1

Al-LINE is a registered trademark of Square D Company.

**Lockout Devices** 

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#### **Cases to Create Your Own Kit**

Part Number	Part Description	Std. Pkg Qty.	Std. Ctn. Qty.
PSL-PK	Electrician pouch.	1	10
PSL-KT	Carrying case – 5.00" x 3.50" x 11.00" (127.0mm x 88.9mm x 279.4mm)	1	2
PSL-BX	Carrying case – 6.50" x 5.00" x 14.50" (165.1mm x 127.0mm x 368.3mm)	1	_
PSL-STATION	Metal wall mount cabinet 14.75" x 10.25" x 4.63" (374.7mm x 260.4mm x 117.6mm)	1	_

Contact Your Local Panduit Representative for custom kits, minimum order quantity is ten kits.

#### **Lockout Stations**



- Conveniently store padlocks, tags and lockout devices in one common area
- Designs available to accommodate four, ten, or twenty people

Part Number	Part Description	Std. Pkg. Qty.
PSL-20SWCA	23.00" x 23.00" (584.2mm x 584.2mm),  20 person lockout station with components; components include: (20) PSL-8 red non-conductive lockout padlocks (keyed differently), (6) PSL-1.5 lockout hasps, (25 tags) PVT-98 safety tags, and (25 tags) PVT-41 safety tags.	1
PSL-20SA	23.00" x 23.00" (584.2mm x 584.2mm), <b>20 person</b> lockout station (sign only).	1
PSL-10SWCA	11.50" x 23.00" (292.2mm x 584.2mm),  10 person lockout station with components; components include: (10) PSL-8 red non-conductive lockout padlocks (keyed differently), (3) PSL-1.5 lockout hasps, (15 tags) PVT-98 safety tags, and (10 tags) PVT-41 safety tags.	1
PSL-10SA	11.50" x 23.00" (292.2mm x 584.2mm), <b>10 person</b> lockout station (sign only).	1
PSL-4SWCA	11.50" x 11.50" (292.2mm x 292.2mm), 4 person lockout station with components, components include: (4) PSL-8 red non-conductive padlocks (keyed differently), (3) PSL-1.5 lockout hasps, and (15 tags) PVT-98 safety tags.	1
PSL-4SA	11.50" x 11.50" (292.2mm x 292.2mm), 4 person lockout station (sign only).	1

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### PANDUIT

#### Group Lock Box (PATENT PENDING)







- Manage multiple employees and energy sources involved in a group lockout procedure
- Accommodates up to thirteen padlocks (not included)
- Rust-resistant lock box delivers maximum durability
- · Lock box is also available in stainless steel
- Dimensions: 9.00" (228.6mm) W x 6.00" (152.4mm) H x 3.25" (82.6mm) D
- · Innovative sliding lid design enhances safety and security

Part Number	Part Description	Std. Pkg. Qty.
PSL-GLBN	Group lock box.	1
PSL-GLBNSS	Stainless steel group lock box.	1

#### Circuit Breaker Directory Sign



- Eliminate the guesswork when identifying power sources - a must for lockout/tagout compliance
- Adhesive paper sign designed to provide clear identification of circuit breaker connections, list up to 40 circuits plus add the part number to the index section

Part Number	Part Description	Std. Pkg. Qty.
PES-S1	Circuit breaker directory sign, paper (adhesive), 13.00" x 5.50" (330.2mm x 139.7mm), 1 sign, 5 signs/pack, red/white.	1

#### **Lockout Warning Strip Label**



- · Write-on area for adding your own warning message
- · Made of vinyl cloth material that allows label to be removed easily after repairs are completed
- Features the international prohibition symbol for "Do Not Throw Switch"

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-CBWL	0.54" x 4.84" (13.7mm x 122.9mm) warning label, 60 markers per book, red/white.	1	10



### Padlocks, Hasps, and Accessories

#### **Non-Conductive Lockout Padlocks**





- Standard locks are keyed differently each padlock is supplied with one key
- Non-conductive lock body and shackle provide protection against electrical hazards
- Available in eight assorted colors for quick visual color identification
- Key-retention feature means that key cannot be removed from padlock when open

Part Number	Color	Shackle Diameter (In.)	Shackle Diameter (mm)	Std. Pkg. Qty.
1.50" (38.1mm) Shackle				
PSL-8	Red	0.26	6.5	1
PSL-8BL	Black	0.26	6.5	1
PSL-8BU	Blue	0.26	6.5	1
PSL-8GR	Green	0.26	6.5	1
PSL-80R	Orange	0.26	6.5	1
PSL-8YL	Yellow	0.26	6.5	1
PSL-8PU	Purple	0.26	6.5	1
PSL-8BR	Brown	0.26	6.5	1

These locks can be master keyed or keyed alike. These locks can also be custom engraved, see page C3 for more information on custom padlocks.

#### Replacement Labels for Non-Conductive Lockout Padlocks

- · Labels supplied in English, Spanish, and French
- Replacement labels for front and back of lock
- Used to identify employees' locks

Part Number	Color	Std. Pkg. Qty.
	Package of 20 replacement labels for PSL-8 non-conductive lockout padlocks.	1

1

#### **High Security Padlocks**





- Standard locks are keyed differently each padlock is supplied with two keys
- Solid aluminum body with anodized aluminum finish provides improved durability and corrosion resistance
- Available in eight assorted colors for quick visual color identification
- Padlocks can be ordered with various keying options (keyed-alike and masterkeyed)
- Six-pin cylinder design allows for a large number of key change options

Part Number	Color	Shackle Diameter (In.)	Shackle Diameter (mm)	Std. Pkg. Qty.
Short Shackle - 1	I.00" (25.4mm)			
PSL-7	Red	0.25	6.4	1
PSL-7BL	Black	0.25	6.4	1
PSL-7BU	Blue	0.25	6.4	1
PSL-7GR	Green	0.25	6.4	1
PSL-70R	Orange	0.25	6.4	1
PSL-7YL	Yellow	0.25	6.4	1
PSL-7PU	Purple	0.25	6.4	1
PSL-7BR	Brown	0.25	6.4	1
Long Shackle – 3	3.00" (76.2mm)			
PSL-7-LS	Red	0.25	6.4	1
PSL-7BL-LS	Black	0.25	6.4	1
PSL-7BU-LS	Blue	0.25	6.4	1
PSL-7GR-LS	Green	0.25	6.4	1
PSL-7OR-LS	Orange	0.25	6.4	1
PSL-7YL-LS	Yellow	0.25	6.4	1
PSL-7PU-LS	Purple	0.25	6.4	1
PSL-7BR-LS	Brown	0.25	6.4	1

These locks can be master keyed or keyed alike. These locks can also be custom engraved, see page C3 for more information on custom padlocks.



#### Laminated Steel Padlocks





- · Standard locks are keved differently each padlock is supplied with two keys
- Hardened steel shackle with double-ball locking mechanism provides protection from cutting, prying, and rusting
- Available in six vinyl bumper colors for quick visual color identification
- · Padlocks can be ordered with various keying options (keyed-alike and master-keyed)
- · Galvanized layer design provides corrosion resistance in harsh environments

Part Number	Color	Shackle Diameter (In.)	Shackle Diameter (mm)	Std. Pkg. Qty.
Short Shackle - 0	).75" (19.3mm)			
PSL-6	Red	0.27	6.8	1
PSL-6BL	Black	0.27	6.8	1
PSL-6BU	Blue	0.27	6.8	1
PSL-6GR	Green	0.27	6.8	1
PSL-6WH	White	0.27	6.8	1
PSL-6YL	Yellow	0.27	6.8	1

Long Shackle - 2.00" (50.8mm)

PSL-6-LS	Red	0.27	6.8	1
PSL-6BL-LS	Black	0.27	6.8	1
PSL-6BU-LS	Blue	0.27	6.8	1
PSL-6GR-LS	Green	0.27	6.8	1
PSL-6WH-LS	White	0.27	6.8	1
PSL-6YL-LS	Yellow	0.27	6.8	1

These locks not suitable for custom engraving.

#### Customized Lockout Padlocks

If your application demands specialized, lockout padlocks, Panduit offers many options of customized padlocks. Options include:

- Keyed Alike
- · Master Keyed
- · Keyed Alike and Master Keyed
- Engraving

Fill out the Customized Lockout Padlock order form with your desired options, engraved text, and quantities, and Panduit will create the specified padlocks. Look for the icon below at www.panduit.com/safety to download electronic copies of the Customized Lockout Padlock order form.



# ndex



#### **Harsh Environment Padlocks**



- Standard locks are keyed differently each padlock is supplied with two keys
- · Solid brass body with chrome finish and stainless steel shackle for use in severe weather and environmental conditions



PSL-9



PSL-9-LS

Part Number	Color	Shackle Diameter (In.)	Shackle Diameter (mm)	Std. Pkg. Qty.		
Short shackle – 1.00" (25.4mm)						
PSL-9	Silver	0.25	6.4	1		
Long shackle – 2.50" (63.5mm)						
PSL-9-LS	Silver	0.25	6.4	1		

These locks are not suitable for custom engraving.

#### Flexible Shackle Padlock

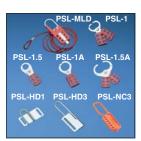


- Standard locks are keyed differently each padlock is supplied with two keys
- Flexible steel shackle works with most circuit breaker lockout devices
- · Flexible steel shackle allows movement of the lock body in order to close the panel door



Part Number	Color	Shackle Diameter (In.)	Shackle Diameter (mm)	Std. Pkg. Qty.
PSL-CS	Red	0.20	5.2	1

### **Lockout Hasps**



- Energy sources can be locked out quickly and easily by more than one worker for group lockout applications
- Heavy duty hasps with tamper-resistant designs to deter vandalism
- Variety of lockout hasp styles and sizes to accommodate a wide range of lockout applications

Part Number	Part Description	Max. No. Locks	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-MLD	Multiple lockout device; includes lockout hasp and 6.00' (1.8m) vinyl coated galvanized steel cable with loophole.	6	1	20
PSL-MLDH-X	Multiple lockout device (hasp only).	6	10	-
PSL-1	Hasp with 1.00" (25.4mm) diameter jaw and overlapping tabs.	6	12	144
PSL-1.5	Hasp with 1.50" (38.1mm) diameter jaw and overlapping tabs.	6	12	144
PSL-1A	Hasp with 1.00" (25.4mm) diameter jaw.	6	12	144
PSL-1.5A	Hasp with 1.50" (38.1mm) diameter jaw.	6	12	48
PSL-HD1	Heavy duty hasp with 1.00" x 1.00" (25.4mm x 25.4mm) clearance.	5	12	-
PSL-HD2.4	Heavy duty hasp with 1.00" x 2.40" (25.4mm x 60.0mm) clearance.	5	12	-
PSL-HD3	Heavy duty hasp with 1.00" x 3.00" (25.4mm x 76.0mm) clearance.	7	12	_
PSL-NC3	Non-Conductive lockout hasp with 3.00" (76.2mm) shackle.	6	1	20



#### **Self-Laminating Padlock Labels**



- Used to identify employees' locks; employees sign the label, attach it to the padlock, and overwrap with the clear vinyl to protect the legend
- Available in six colors for departmental coding
- · One-piece design is easy to use
- For use with PSL-6 padlocks

		Wi	dth	Height		Std.	Std. Ctn.
Part Number	Color	ln.	mm	ln.	mm	Qty.	Qty.
PSL-PL1REDY	Red	10.00	254.0	0.75	19.1	25	150
PSL-PL1BLKY	Black	10.00	254.0	0.75	19.1	25	150
PSL-PL1BLUY	Blue	10.00	254.0	0.75	19.1	25	150
PSL-PL1GRNY	Green	10.00	254.0	0.75	19.1	25	150
PSL-PL1WHTY	White	10.00	254.0	0.75	19.1	25	150
PSL-PL1YELY	Yellow	10.00	254.0	0.75	19.1	25	150

### DANGER Header PSL-PL1REDY-D White/Red 10.00 254.0 0.75 19.1 25 150

Labels are designed with blank write-on area for name and department designation and can be clearly identified with Panduit permanent marking pens, page D16.

#### Metal I.D. Tags and Collars



- Provides permanent identification of pipes, conduit, valves, cables and equipment in harsh environments
- All marker plates/tags can be embossed or laser etched with Panduit Factory Custom Marking Service\*

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-TG1	Brass padlock identification tag.	12	48
PSL-SC	Padlock shackle collar and rivet.	12	48
MTB1D-Q	Brass identification tag 1.00" (25.4mm) diameter.	25	250
MT172W38-C	Stainless steel tag 1.72" x 0.38" (43.7mm x 9.7mm).	100	1000

<sup>\*</sup>For information on the Panduit Custom Marking Service visit www.panduit.com/permanentid.

#### **Padlock Eyes**



- Padlock eyes can be added to equipment to lock it out
- Surface mounted eyes are made of 0.13" (3.0mm) hard wrought steel
- Tamper resistant inside mounting eyes –
  2.50" (64.0mm) wide, accept shackle diameters up to 0.63" (16.0mm)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-PE1	Padlock eyes, angled (metal mounting screws included).	1	10
PSL-PE2	Padlock eyes, straight (wood mounting screws included).	1	10

Lockout Devices

#### **Chain Attachment**



• Optional 9.00" (229.0mm) chain for permanently attaching lockouts at pre-designed locations

Std.

Pkg.

Qty.

Std.

Ctn.

Qty. 10

Dout Number	Doub Decemention
Part Number	Part Description
PSL-PC	Heavy duty zinc plated steel chain with chain holder attached.

Index

### PANDU

### Tags, Signs, and Labels

#### Write-On Safety Tags



- Meets OSHA Standard 1910.147 requirements for tagout applications
- Semi-rigid plastic tags are 3.00" (76.0mm) wide x 5.75" (146.0mm) high with a 0.38" (9.0mm) brass grommet for greater strength and increased durability
- · Tags can be attached with a lockout device or with a Panduit PLT2S nylon tie (50 lb. loop tensile strength) supplied with each tag
- PVT-\* package consists of five tags and five cable ties
- PVT-\*-Q package consists of 25 tags and 25 cable ties
- · Can be clearly identified with Panduit permanent marking pens, page D16





DO NOT REMOVE THIS TAG

TO DO SO WITHOUT **AUTHORIZATION WILL MEAN IMMEDIATE** DISCHARGE. IT IS HERE FOR A PURPOSE. SEE OTHER SIDE

Back

Back

PVT-9-Q

PVT-15

DANGER **DO NOT OPERATE** 

DANGER DO NOT REMOVE THIS TAG TO DO SO WITHOUT

**AUTHORIZATION WILL MEAN IMMEDIATE** DISCHARGE. IT IS HERE FOR A PURPOSE. SEE OTHER SIDE

continued on page D2.

**Lockout Devices** 

Front

Front

Related Products

Regulatory Standards

Front

ndex



#### Write-On Safety Tags (continued)

Back





PVT-23 PVT-23-Q

TO DO SO WITHOUT **AUTHORIZATION WILL MEAN IMMEDIATE** DISCHARGE. IT IS HERE FOR A PURPOSE.

**SEE OTHER SIDE** 



Back



PVT-30 PVT-30-Q

**ELECTRICIAN'S BLOCKING TAG** SWITCH HAS BEEN BLOCKED TO PROTECT MY LIFE WHILE WORKING ON THIS CIRCUIT TAG TO BE REMOVED ONLY BY ME. Signed By

ELECTRICIAN'S Blocking Tag
DO NOT OPERATE
THIS EQUIPMENT I HAVE TAKEN THE FOLLOWING STEPS BEFORE WORKING ON THIS CIRCUIT
1 2
3
4 5
Signed By Date

PVT-41



	DANGER
Back	DO NOT REMOVE THIS TAG
	SEE OTHER SIDE

PVT-42-Q

PVT-43

#### Write-On Safety Tags (continued)

Back



















	DANGER
Dack	DO NOT REMOVE THIS TAG
	SEE OTHER SIDE

PVT-44 PVT-44-Q

continued on page D4.

Front

Front

Front



#### Write-On Safety Tags (continued)

Back





**LOCKED TO PROTECT** WORKMEN REPAIRING **MACHINERY** 



PVT-57-Q

PVT-56-Q

THIS TAG MUST NOT BE REMOVED BY ANYONE EXCEPT THE PERSON WHO SIGNED AND ATTACHED IT.

ANY VIOLATION OF THIS RULE WILL BE CAUSE FOR IMMEDIATE DISCHARGE

HANDS OFF!

	DANGER
Back	DO NOT REMOVE THIS TAG
	SEE OTHER SIDE

PVT-62-Q

**Training Products** 

Write-On Safety Tags (continued)

Back



**EQUIPMENT** LOCKED OUT

DANGER

THIS TAG MUST NOT BE REMOVED BY ANYONE EXCEPT THE PERSON WHO SIGNED AND ATTACHED IT. ANY VIOLATION OF THIS RULE WILL BE CAUSE FOR IMMEDIATE DISCHARGE. HANDS OFF!!

**SEE OTHER SIDE** 

PVT-96 PVT-96-Q

PVT-97 PVT-97-Q **Lockout Devices** 

Related Products

Regulatory Standards

A LIFE Front IS ON

Back

Back

THIS TAG MUST NOT BE REMOVED BY ANYONE **EXCEPT THE PERSON WHO** SIGNED AND ATTACHED IT. ANY VIOLATION OF THIS RULE WILL BE CAUSE FOR IMMEDIATE DISCHARGE. HANDS OFF!!

SEE OTHER SIDE



PVT-98 PVT-98-Q

Inde

continued on page D6.

Front THIS TAG & LOCK TO BE REMOVED ONLY BY PERSON SHOWN ON BACK

Front

Front

Front

#### Write-On Safety Tags (continued)

Back



* Tested equipment for zero energy stat	te
* Cleared personnel/tools before and after job	
* Removed locks and tags	
Job	_
Expected Completion	



THIS TAG MUST NOT BE REMOVED BY ANYONE **EXCEPT THE PERSON WHO** SIGNED AND ATTACHED IT. ANY VIOLATION OF THIS **RULE WILL BE CAUSE FOR** IMMEDIATE DISCHARGE. HANDS OFF!!

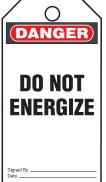
**SEE OTHER SIDE** 



PVT-99



PVT-148-Q







	DANGER
Back	DO NOT REMOVE THIS TAG
	SEE OTHER SIDE

PVT-150-Q

PVT-153-Q

**Training Products** 

**Lockout Devices** 

Related Products

Inde

#### Write-On Safety Tags (continued)

Back











PVT-155-Q

PVT-156-Q

**DO NOT OPERATE** Front **THIS SWITCH** 





Regulatory Standards

continued on page D8.

# **Lockout Devices**

Front

Signed

Front

Related Products

Regulatory Standards

Front

ndex

## 

#### Write-On Safety Tags (continued)



Date







PVT-158-Q

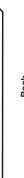
PVT-157-Q

DANGER
DO
NOT
USE
Signed By Date



THIS TAG

See Reverse For Procedures



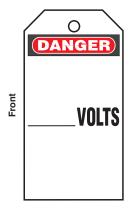


PVT-160-Q

Lockout Device:

### PANDUIT

#### Write-On Safety Tags (continued)





PVT-238-Q

#### **Custom Printed PVT Vinyl Tags**

If your application demands custom printed information for your PVT Tags, Panduit offers many custom printed options. Fill out the Custom Printed PVT Vinyl Tags order form with your specific values, information, and even a company logo, and Panduit will create and print the specified tags. Look for the icon below at **www.panduit.com/safety** to download electronic copies of the Custom Printed PVT Vinyl Tag order form.



Front

Front

Front



#### **Bilingual Write-On Safety Tags** (English/Spanish)

Back



**ELIGRO OPERAR ESTA MAQUINA PUEDE PONER** LA VIDA EN **PELIGRO** SEE OTHER SIDE

PVT-97S-Q





PVT-161-Q





PVT-165-Q

PVT-41-F

#### Write-On Safety Tags (French)









Front Seule la personne qui a signé au verso peut retirer cette étiquette



PVT-98-F

PVT-150-F





Front

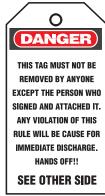
### PANDUIT®

#### **Self-Laminating Photo Tags**

- Semi-rigid plastic tags with polyester laminate to protect photos and other written data are 5.75" H x 3.00" W (146.0mm x 76.0mm) with a 0.38" (9.0mm) brass grommet for greater strength and durability
- Tags have write-on surface and can be attached with a lockout device or with a Panduit PLT2S nylon tie (50 lb. loop tensile strength) supplied with each tag
- · Package consists of five tags and five cable ties
- Can be clearly identified with Panduit permanent marking pens, page D16

Back





PST-3

Front



PST-12

**Training Products** 

PANDU

#### **ISO Symbol Safety Tags**

- Meet International Organization for Standardization (ISO) to communicate safety information
- Semi-rigid plastic tags are 5.75" H x 3.00" W (146.0mm x 76.0mm) with a 0.38" (9.0mm) brass grommet for greater strength and durability
- Tags have write-on surface and can be attached with a lockout device or with a Panduit PLT2S nylon tie (50 lb. loop tensile strength) supplied with each tag
- · Package consists of five tags and five cable ties
- Can be clearly identified with Panduit permanent marking pens, page D16





PVT-110 (Do Not Throw Switch)

DANGER!



PVT-111 (Prohibition)

lue)

#### ISO Symbol Safety Tags (continued)

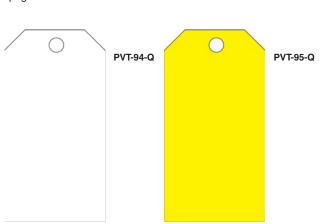




PVT-112 (Warning of **Dangerous** Electrical Voltage)

#### **Do-It-Yourself Tags**

- Semi-rigid plastic tags are 5.75" H x 3.00" W (146.0mm x 76.0mm) with a 0.38" (9.0mm) brass grommet for greater strength and increased durability
- Tags can be attached with a lockout device or with a Panduit PLT2S nylon tie (50 lb. loop tensile strength) supplied with each tag
- · Package consists of 25 tags and 25 cable ties
- Can be clearly identified with Panduit permanent marking pens, page D16



#### **Do-It-Yourself Tags**



PVT-113-Q







PVT-179-Q



PVT-199-Q

PVT-118-Q



PVT-200-Q



#### **Permanent Marking Pens**



- · Fast drying permanent ink
- · Can be used with write-on labels and tags

Part Number	Part Description	Ink Color	Std. Pkg. Qty.	Std. Ctn. Qty.
PFX-0	Permanent marking pen – fine tip.	Black	12	144
PFX-2	Permanent marking pen – fine tip.	Red	12	144

# Self-Laminating Fiber Optic Cable Marker Tags



- Durable tag for marking fiber optic cable in manhole and indoor/outdoor environments
- Clear overlaminate protects legend
- Can be installed as a wrap or flag with Panduit Intermediate Cable Ties
- Can also be used with 0.33" (8.4mm) and 0.50" (12.7mm) width Panduit ® Tak-Ty ® Hook and Loop Cable Ties in the 90° flag application

		Width		Height		Std. Pkg.	
Part Number	Part Description	ln.	mm	ln.	mm	Qty.	Qty.
PST-FO	Black/yellow tag, 5 tags/pack	3.50	88.9	2.00	50.8	1	40
PST-FOBLNK	Yellow blank tag, 5 tags/pack	3.50	88.9	2.00	50.8	1	40

#### Cable Marking Ground Warning Tags



- U.V. resistant legend is printed on both sides
- Install with Panduit Intermediate Cable Ties
- 100 tags per package

Part Number	Part Description	Width (In.)	Width (mm)	Height (In.)	Height (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
PT-BGND	Ground Tag, Network Bldg, Green/Yellow, 100/Pk	2.75	70.0	1.38	35.0	1	5
PT-GND	Ground Tag, Ground Wire, Black/Yellow, 100/Pk	2.75	70.0	1.38	35.0	1	5
PT-TGND	Ground Tag, Telephone, Black/Yellow, 100/Pk	2.75	70.0	1.38	35.0	1	5



Panduit offers signs in four materials:

#### Indoor Adhesive Vinyl (Type PVS)

Economical, general purpose signs for use in most environments

PANDUIT

 Very good adhesive properties when applied to a clean surface

### Indoor/Outdoor Sub-Surface Printed Adhesive Polyester (Type PPS)

- High quality signs for use indoors and outdoors
- Excellent resistance to UV light, chemical atmosphere, and abrasion
- Excellent life and adhesion properties
- Printed graphics are protected by clear polyester laminate

### Indoor/Outdoor Rigid Polyethylene (Type PRS)

- Rugged signs for indoors and outdoors
- Abrasion resistant
- Used where adhesives will not work

#### Indoor/Outdoor Aluminum (Type PAS)

- Durable material for indoor and outdoor use
- Strong aluminum material excellent for medium and large size signs
- Ideal for a variety of industrial applications

#### Size Reference Chart

Part	Wi	dth	Hei	ght	Signs	Std. Pkg.
Number	ln.	mm	In.	mm	Card	Qty.
*0109*	9.00	228.6	1.50	38.1	1	5 Signs
*0202*	2.25	57.2	2.25	57.2	4	5 Cards
*0204*	4.50	114.3	2.25	57.2	2	5 Cards
*0209*	9.00	228.6	2.25	57.2	1	5 Signs
*0305*	5.00	127.0	3.50	88.9	2	5 Cards
*0404*	4.00	101.6	4.00	101.6	1	5 Signs
*0406*	4.00	101.6	6.00	152.4	1	5 Signs
*0503*	3.50	88.9	5.00	127.0	1	5 Signs
*0505*	5.00	127.0	5.00	127.0	1	5 Signs
*0507*	7.00	177.8	5.00	127.0	1	5 Signs
*0509*	9.00	228.6	5.00	127.0	1	5 Signs
*0514*	14.00	355.6	5.00	127.0	1	5 Signs
*0710*	10.00	254.0	7.00	177.8	1	1 Sign
*1014*	14.00	355.6	10.00	254.0	1	1 Sign
*1209*	9.00	228.6	12.00	304.8	1	1 Sign
*1420*	20.00	508.0	12.00	355.6	1	1 Sign

<sup>\*</sup>Denotes the part numbers' prefix and suffix. See pages D18 – D38 for available signs.

#### Lockout/Tagout Safety Signs

See page D17 for information on part number sizes and materials.

LOCK OUT BEFORE SERVICING

PVS0204C176Y

LOCK OUT HERE

PVS0204C177Y

CAUTION
LOCK OUT FOR SAFETY
BEFORE YOU START

PVS0204C171Y



PVS0710C180Y

CAUTION
USE LOCK-OUT DEVICE

DURING MAINTENANCE OR
ANY OPERATOR ADJUSTMENT

PVS0710C173Y



PVS0204C179Y



PVS0204W172Y

# NOTICE

In Accordance with OSHA Standard 1910.147, all equipment, machines and servicing.

Lockout procedures are posted in the operating area and/or by the main energy source of each machine. If you have any questions about the lockout procedures, please see your supervisor or the Safety Director.

This standard will be strictly enforced.

PRS1410N106

# **NOTICE**

THE FOLLOWING STEPS MUST BE PERFORMED WHEN LOCKING OUT EQUIPMENT:

- Identify all potential hazards and energy sources.
- Inform operator / supervisor about work to be performed.
- 3 Prepare equipment for shutdown.
- 4 Shutdown / turn off equipment.
  5 Isolate and LOCKOUT energy sources.
- 6 Release all stored energy.
- 7 Test equipment for zero energy state.
- 8 Clear personnel / tools before and after job.
- Remove locks and tags when work completed.

PVS0503N458Y

#### **Electrical Hazard Safety Signs**

See page D17 for information on part number sizes and materials.



KEEP ELECTIRCAL AREA PANEL CLEAR

PPS0710C142 PRS1014C142



AREA IN FRONT OF THIS ELECTRICAL PANEL MUST BE KEPT CLEAR FOR 36 INCHES OSHA - NEC REGULATIONS

> PPS0710C141 PPS1014C141



AREA IN FRONT OF THIS ELECTRICAL PANEL MUST BE KEPT CLEAR FOR 36 INCHES OSHA - NEC REGULATIONS

> PPS0710D66 PPS1014D66



ROOM
NO STORAGE

PRS1014D71



VOLTAGE INSIDE PPS0710D78 PRS1014D78



PRS1014D82



PPS0710C143

# CAUTION WHEN THROWING SWITCH USE LEFT HAND AND

PRS1007C95
PPS0503C95



PPS0305D72 PPS0710D72 PPS1014D72 PRS0710D72 PRS1014D72 PVS0109D72Y PVS0204D72Y PVS0710D72Y



ELECTRICAL EQUIPMENT AUTHORIZED PERSONEL ONLY

PPS0305D70 PPS0710D70 PPS1014D70 PRS1014D70



PPS1014D81 continued on page D20.



#### **Electrical Hazard Safety Signs (continued)**

See page D17 for information on part number sizes and materials.



PPS0305D79 PPS0710D79 PRS1014D79



PPS0305D73 PPS0710D73 PPS1014D73 PRS1014D73



PRS1014D131



**KEEP OUT** HAZARD AREA

PRS1014D118



**ELECTRICAL CLOSET** NO STORAGE PERMITTED

> PPS0710N203 PPS1014N203

### DANGER

HIGH VOLTAGE UNAUTHORIZED PERSONNEL KEEP OUT

> PPS0305D75 PPS0710D75 PPS1014D75 PRS1420D75



PPS1014D74



PPS0305D76 PPS0710D76 PPS1014D76



CABLE BURIED **HERE** 

PRS0710D68



PRS1014D89

#### DANGER HIGH VOLTAGE

PPS0710B364 PRS0710B364 PRS1014B364 PVS0509B364Y PVS0710B364Y

Lockout Device:



#### **Electrical Hazard Safety Signs (continued)**

See page D17 for information on part number sizes and materials.



DANGER HIGH VOLTAGE

PPS0514B363

PPS0710D28 PPS1014D28

#### **Bilingual Hazard Signs**



PRS0910D453



PPS1007D72SE



PPS0503C181SE

#### **Short Circuit Hazard Signs**

 Aids in compliance with UL 508A requirement, see page G15 for more information



PPS0305W2200 PPS0507W2200



PVS0305W2201Y PVS0507W2201Y

# **Training Products**

Lockout Devices

# PANDU

#### **Voltage Signs**

See page D17 for information on part number sizes and materials.



- Polyester indoor/outdoor
- Header DANGER
- · Color legend red and black; background white
- Available Sizes: 10.00" (254.0mm) wide x 7.00" (177.8mm) high and 14.00" (355.6mm) wide x 10.00" (254.0mm) high
- · Standard package quantity 1



S	
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S	app
	9
9	
Σğ	œ
_	

Part I		
10.00" W x 7.00" H	14.00" W x 10.00" H	Legend
PPS0710DV001	_	110 VOLTS
PPS0710DV002	-	115 VOLTS
PPS0710DV003	_	120/208 VOLTS
PPS0710DV004	_	120 VOLTS
PPS0710DV005	_	12,470 VOLTS
PPS0710DV006	_	13,200 VOLTS
PPS0710DV007	-	13,800 VOLTS
PPS0710DV008	_	208 VOLTS
PPS0710DV009	_	220 VOLTS
PPS0710DV010	-	2,300 VOLTS
PPS0710DV011	_	230 VOLTS
PPS0710DV012	_	240 VOLTS
PPS0710DV013	-	277/480 VOLTS
PPS0710DV014	_	277 VOLTS
PPS0710DV015	_	4,160 VOLTS
PPS0710DV016	PPS1014DV016	440 VOLTS
PPS0710DV017	_	460 VOLTS
PPS0710DV018	PPS1014DV018	480 VOLTS
PPS0710DV019	_	600 VOLTS
	•	

Lockout Device:

# PANDUIT®

#### **Machine and Operational Safety Signs**

See page D17 for information on part number sizes and materials.



PRS0710W67



PPS0710D24



EXPOSED ENERGIZED ELECTRICAL EQUIPMENT (CONDUCTORS) AUTHORIZED PERSONNEL ONLY ALL OTHERS KEEP OUT

PPS0710D77



THIS EQUIPMENT STARTS AUTOMATICALLY

PPS0710D101



THIS EQUIPMENT IS SUPPLIED WITH TWO ELECTRICAL SERVICES

PPS0710D129



PRS1014D87



PRS1014D67



PPS1014D80



PVS0204D100Y



PPS0710D124



THE ARC

PRS1014D130



PRS1014D132

continued on page D24.

#### **Machine and Operational Safety Signs** (continued)

See page D17 for information on part number sizes and materials.



PRS1014D123



PPS0710D121 PRS1014D121



PRS1014D126



PRS0710C96



PPS0305C174 PVS0305C174Y PVS0505C174Y

THIS DISCONNECT **DOES NOT REMOVE** ALL POWER FROM PANEL

PVS0204C178Y



PRS1014D127



PRS1014D128



PRS1014C88



PRS0710C97



PPS0710N191



PPS0202B493

#### **Personal Protection Signs**

See page D17 for information on part number sizes and materials.



PPS0710D104 PRS1014D104



PRS1014D85



PRS1014C85



PPS0710N105 PRS0710N105



PRS0710W104



PPS0710D125



PPS0710C94 PRS1014C94

#### **Admittance Signs**

See page D17 for information on part number sizes and materials.



PRS1014D120



PRS1014D115



PPS0710D116 PRS1014D116



PRS1014D117



PPS0710D69 PRS1014D69

#### **Facility Safety Signs**

See page D17 for information on part number sizes and materials.



PPS0710C90 PRS1014C90



PPS0710C92 PRS1014C92



PPS0710C99 PRS1014C99



PPS0305N107 PRS0710N107



PRS1014D86



PVS0209D445Y

# **CAUTION**

THIS SPACE MUST BE KEPT CLEAR AT ALL TIMES

PPS0710C91 PRS1014C91



PPS0710C98 PRS0710C98



PPS0710C135 PRS1014C135



PPS0305N108 PRS0710N108



PRS0710B251



PPS0514B265

continued on page D28.

#### **Facility Safety Signs (continued)**

See page D17 for information on part number sizes and materials.



PRS1209B317



PRS0310F319



PPS0710B430 PRS0710B430



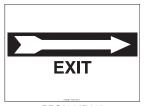
PPS0710B380



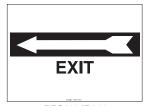
PPS0710B113 PRS1014B113



PPS0710B114 PRS1014B114



PRS1014B112



PRS1014B111



PRS1014B110



PRS1014B109

Lockout Device:



#### **Photoluminescent Safety Signs**

See page D17 for information on part number sizes and materials.

- Used to mark egress routes, fire alarms, and fire equipment that is clearly visible for up to ten hours after power is lost
- Absorbs energy from ambient light and releases this energy in the form of a glow when power is lost
- Panduit Photoluminescent Signs meet or exceed the following safety standard specification for photoluminescent safety markings including: ASTM E 2072-00, ASTM E 2073-00, ASTM E 2030-99, DIN67510-1, IMO Resolution A.752.18, ISO/CD 15370, DIN 67510, UL 924, ASTM 162, ASTM 648, ASTM 662, MIL-L-3891 B, NFPA 101 Life Safety Code, OSHA 1910.37



PPS0710G001 PPS1014G002



PPS0710G020



PPS1209G010



PPS1209G011



PPS1209G012

See page E3 for information on Photoluminescent Tapes.

# **Custom Printed Adhesive and Rigid Safety Signs**

If your application demands custom printed safety signage, Panduit offers many custom printed options.

Signage options include:

- Adhesive PPS signs
- Semi-Rigid PRS signs
  - Aluminum PAS signs

Fill out the custom safety sign order form with your specific information and artwork, and Panduit will create and print the specified signs. Look for the icon below at www.panduit.com/safety to download electronic copies of the Custom Printed Adhesive and Rigid Safety Sign order form.



#### Arc Flash Pre-Printed Labels

- Provide employees with the highest degree of safety through proper identification and communication
- New 2012 detailed format is compliant with NFPA 70E 2012 standard for Arc Flash labeling
- Clearly visible and recognizable hazard information to communicate Arc Flash hazards are present
- Large WARNING header, universal hazard symbols and clear, concise, hazard description
- New DANGER header signs available for high risk Arc Flash applications
- Multiple sizes to choose from for specific applications
- Labels are constructed of durable polyester (PPS) designed to withstand UV exposure, outdoor use, water, abrasion or vinyl material (PVS) that accepts handwritten hazard information by using Panduit permanent black marking pens



Basic



Standard

Part Number	Part description	Std. Pkg. Qty.	Std. Ctn. Qty.		
Basic					
PPS0204W2100	4.50" x 2.25" (114.3mm x 57.2mm), black/orange, adhesive polyester sign, "WARNING". Potential Arc Flash Hazard.	5	100		
PPS0204W2100-F	4.50" x 2.25" (114.3mm x 57.2mm), black/orange, adhesive polyester sign, "WARNING". Potential Arc Flash Hazard, written in French.	5	100		
PPS0305W2100	3.50" x 5.00" (88.9mm x 127.0mm), black/orange, adhesive polyester sign, "WARNING". Potential Arc Flash Hazard.	5	50		
PPS0507W2100	5.00" x 7.00" (127.0mm x 177.8mm), black/orange, adhesive polyester sign, "WARNING". Potential Arc Flash Hazard.	5	50		
PPS0507W2100-F	5.00" x 7.00" (127.0mm x 177.8mm), black/orange, adhesive polyester sign, "WARNING". Potential Arc Flash Hazard, written in French.	5	50		
Standard					
PVS0305W2102Y	3.50" x 5.00" (88.9mm x 127.0mm), black and orange/white, adhesive vinyl sign, "WARNING". ARC Flash and Shock Hazard.	5	50		
PVS0305W2102Y-S	3.50" x 5.00" (88.9mm x 127.0mm), black and orange/white, adhesive vinyl sign, "WARNING". ARC Flash and Shock Hazard. Written in Spanish.	5	50		

#### **Arc Flash Pre-Printed Labels (continued)**

#### Detailed



A WAI	RNING
Arc Flash & Si Appropriate P	PE Required
ARC FLASH PROTECTION  so the flacendage;  soliding bank)  differ flacen  so fee flaceny	SHOCK PROTECTION  *Application*  India Application  Institute Application  Institute Application  Institute Application  Institute  Institute

#### Compact



#### **Detailed Bilingual**

Arc Flash & Shock Hazard Appropriate PPE Required AFF Loss INSTITUTE (SCC STREET) AFF LOSS INSTITUTE AFF LOSS INS		RNING
ADVERTEDIA  AND PROTECTION  AN		
Aroo eléctrico y Risego de descarga eléctrica Adecuado Equipo de Protección Personal (PPE) requerido Primeira alva Bioles CINICATOR Internation Intern	enter tearrapy  conting sent	Majo Brok Rosel sinka Spront Brokey Berrina Spront Brokey Forthan Spront Brokey
Adecuado Equipo de Protección Personal (PPE) requerido Protección Personal (PPE) requerido Protección Escribidos Escribid	Aroo el	ictrico v
Interest Part -	Adecuado Equis	o de Protección
	Inchie	

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Detailed			
PVS0305W2103Y	3.50" x 5.00" (88.9mm x 127.0mm), black and orange/white, adhesive vinyl sign, "WARNING". Potential Arc Flash and Shock Hazard with detailed write-on area.	5	100
PVS0305D2101Y	3.50" x 5.00" (88.9mm x 127.0mm), red and black/white, adhesive vinyl sign, "DANGER". Potential Arc Flash Exists with detailed write-on area.	5	50
PVS0507W2103Y	5.00" x 7.00" (127.0mm x 177.8mm), black and orange/white, adhesive vinyl sign, "WARNING". Potential Arc Flash and Shock Hazard with detailed write-on area.	5	100
PVS0507D2101Y	5.00" x 7.00" (127.0mm x 177.8mm), red and black/white, adhesive vinyl sign, "DANGER". Potential Arc Flash Exists with detailed write-on area.	5	50

Compact			
PVS0204W2103Y	2.25" x 4.50" (57.2mm x 114.3mm), black and orange/white, adhesive vinyl sign, "WARNING". Potential Arc Flash and Shock Hazard with detailed write-on area.	5	100
PVS0204D2101Y	2.25" x 4.50" (57.2mm x 114.3mm), red and black/white, adhesive vinyl sign, "DANGER". Potential Arc Flash Exists with detailed write-on area.	5	100

#### **Detailed Bilingual**

PVS0705W2105Y-	\$ 7.00" x 5.00" (177.8mm x 127.0mm), orange and black/white, adhesive vinyl sign, "WARNING". Arc Flash and Shock Hazard, with detailed write-on area. Written in English and Spanish.	5	100
PVS0705D2105Y-	5 7.00" x 5.00" (177.8mm x 127.0mm), red and black/white, adhesive vinyl sign, "DANGER". Arc Flash and Shock Hazard, with detailed write-on area. Written in English and Spanish.	5	100

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#### Arc Flash Pre-Printed Labels with **PPE Listings**

- New 2012 detailed PPE format is compliant with NFPA 70E 2012 standard for Arc Flash labeling
- · Provides helpful guide for employees to select PPE appropriate to the electrical hazard
- Labels are constructed of vinyl material (PVS) that accepts handwritten hazard information by using Panduit permanent black marking pens,
- Labels are 5.00" x 7.00" (127.0mm x 177.8mm) with large "WARNING" header

#### **Detailed with PPE Pictograms**



#### Detailed with PPE Listing



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Detailed with PPE Pi	ctograms		
PVS0507W2104Y-0	PPE Pictograms for Hazard Risk Category 0.	5	100
PVS0507W2104Y-1	PPE Pictograms for Hazard Risk Category 1.	5	100
PVS0507W2104Y-2	PPE Pictograms for Hazard Risk Category 2.	5	100
PVS0507W2104Y-3	PPE Pictograms for Hazard Risk Category 3.	5	100
PVS0507W2104Y-4	PPE Pictograms for Hazard Risk Category 4.	5	100
<b>Detailed with PPE</b>	Listing		
PVS0507W2106Y-0	PPE Listing for Hazard Risk Category 0.	5	100
PVS0507W2106Y-1	PPE Listing for Hazard Risk Category 1.	5	100
PVS0507W2106Y-2	PPE Listing for Hazard Risk Category 2.	5	100
PVS0507W2106Y-3	PPE Listing for Hazard Risk Category 3.	5	100
PVS0507W2106Y-4	PPE Listing for Hazard Risk Category 4.	5	100

ndex

#### **Arc Flash Print On-Demand Labels**

- · Custom Arc Flash Hazard Labels can be printed using Panduit labeling software and desktop thermal transfer printers with resin ribbons
- Provide employees with the highest degree of safety through proper identification and communication
- New 2012 detailed format is compliant with NFPA 70E 2012 standard for Arc Flash labeling
- · Clearly visible and recognizable hazard information to communicate arc flash hazards present
- Labels are constructed of durable polyester designed to withstand UV exposure, outdoor use, water and abrasion











C40	0X400A5
	I

Part Number	Part Description		Std. Ctn. Qty.
Arc Flash Print O	Arc Flash Print On-Demand Die Cut		
C200X400A51	2.00" x 4.00" (50.8mm x 101.6mm), polyester safety label, WARNING (Header) orange and black, 250 labels per roll.	1	4
C200X400YZ1	2.00" x 4.00" (50.8mm x 101.6mm), polyester safety label, DANGER (Header) red and white, 250 labels per roll.	1	4
C400X400A11	4.00" x 4.00" (101.6mm x 101.6mm), polyester safety label, orange header, green footer, 250 labels per roll.	1	4
C400X400A21	4.00" x 4.00" (101.6mm x 101.6mm), polyester safety label, orange header, yellow footer, 250 labels per roll.	1	4
C400X400A31	4.00" x 4.00" (101.6mm x 101.6mm), polyester safety label, orange header, red footer, 250 labels per roll.	1	4
C400X400A51	4.00" x 4.00" (101.6mm x 101.6mm), polyester safety label, WARNING (Header) orange and black, 250 labels per roll.	1	4
C400X400YZ1	4.00" x 4.00" (101.6mm x 101.6mm), polyester safety label, DANGER (Header) red and white, 250 labels per roll.	1	4

# Arc Flash Print On-Demand Labels (continued)



A DANGER

C400X600YZ1







Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
	n-Demand Die Cut	Grty.	Gty.
C400X600A51	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, WARNING (Header) orange and black, 100 labels per roll.	1	4
C400X600YX1	4.00" x 6.00" (101.6mm x 152.4mm), polyester arc flash label, orange header, 100 labels per roll.	1	4
C400X600YZ1	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, DANGER (Header) red and white,100 labels per roll.	1	4

	per roll.					
Arc Flash Print On-Demand Continuous Tape						
T400X000YX1	4.00" x 50.00' (101.6mm x 15.2m), polyester arc flash tape, orange header.	1	4			
T400X000A91	4.00" x 50.00' (101.6mm x 15.2m), polyester arc flash tape, red header.	1	4			



#### **Arc Flash Print On-Demand**

#### TDP43ME Thermal Transfer Desktop Printer



- Compatible and easy setup with Panduit software and media
- High-quality printed legends
- Durable construction
- Easy-Mark <sup>™</sup> Labeling Software included with printer
- Up to 4 inches per second print speed

Part Number	Part Description	Std. Pkg. Qty.
TDP43ME	300 dpi printer; includes printer, Panduit ® Easy-Mark ™ Labeling Software, RMEH4BL hybrid black ribbon, AC power adapter with US power cord, USB cable, user manual, quick start card, and driver disk.	1

#### Easy-Mark ™ Labeling Software



- Easy-Mark ™ Labeling Software simplifies label creation for the specific needs of your applications
- Intuitive interview process allows automatic generation of labels and signs

Part Number	Part Description	Std. Pkg. Qty.
PROG-EMCD3	Easy-Mark <sup>™</sup> Labeling Software, CD-ROM	1
PROG-EM2GO	Easy-Mark ™ Portable Application, USB Flash Drive	1

#### **Custom Printed Arc Flash Labels**

If your application demands custom printed information for your Arc Flash Labeling, Panduit offers many options of custom printed arc flash labels. Fill out the custom Arc Flash Label order form with your specific values, information, and even a company logo, and Panduit will create and print the specified labels. Look for the icon below at www.panduit.com/safety to download electronic copies of the Custom Arc Flash Label order form.





#### **Thermal Transfer Printable Labels**

 Facility Identification can be printed using Panduit labeling software and desktop thermal transfer printers.



CAUTION



C400X600A41

C400X600A61

C400X600AX1

SAFETY FIRST





C400X600AY1

C400X600AZ1

C400X600Y81

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Custom - Die Cut			
C400X600A41	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, DANGER (Header), red and black/white, 100 labels per roll.	1	4
C400X600A61	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, CAUTION (Header), yellow/black, 100 labels per roll.	1	4
C400X600AX1	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, blue/white, NOTICE header, 100 labels per roll.	1	4
C400X600AY1	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, green/ white, SAFETY FIRST header, 100 labels per roll.	1	4
C400X600AZ1	4.00" x 6.00" (101.6mm x 152.4mm), polyester arc flash label, yellow header, 100 labels per roll.	1	4
C400X600Y81	4.00" x 6.00" (101.6mm x 152.4mm), polyester safety label, yellow, 100 labels per roll.	1	4

#### **Laser Printable Adhesive Signs**

- · Signs can be printed with a standard laser printer
- Indoor polyolefin pressure sensitive signs with square corners on stay flat liner
- Signs are 8.50" x 11.00" (215.9mm x 279.4mm)
- 25 signs per package







PANDUIT®

Padlocks, Hasps & Accessories

SEZ-1DLL

SEZ-1CLL

SEZ-1NLL







SEZ-1WLL

SEZ-1YLL

SEZ-1WHLL

#### Sign Panels – Blank Space for Custom Messages

See page D17 for information on part number sizes and materials.

 Can be used with Panduit Thermal Transfer Desktop Printers and Labeling Software to create your own custom signs

 Print your own legend on clear polyester tape with the TDP43ME Thermal Transfer Desktop Printer and adhere label to sign to adhesive or non-adhesive side panel, see pages F2– F3 for more information.





DANGER

PPS0710D440 PPS1014D440 PPS1420D440 PRS0710D440 PRS1014D440





PPS1014BYEL PPS1420BYEL PRS0710BYEL PRS1014BYEL PRS1420BYEL



PPS0710N443
PPS1014N443
PPS1420N443
PRS0710N443
PRS1014N443
DDC4400NI440

# CAUTION

PPS0710C442 PPS1014C442 PPS1420C442 PRS0710C442 PRS1014C442 PRS1420C442

# PRS1420D440 PRS1420N443 Pre-Coiled Clear Snap-On Markers



PMSCLL PMSCLP PMSCLN PMSCLM

- Use to increase durability of adhesive pipe/conduit markers
- Excellent resistance to oils, bases, detergents, solvents, salt water and mild acids
- Estimated outdoor expectancy is 3 years

Part	Marker Length		Pipe / Conduit O.D. Range		Markers	Std. Pkg.
Number	In.	mm	ln.	mm	Per Card	Qty.
PMSCLL	3.00	76.0	0.50 -	13.0 -	5	1
			0.75	19.0		
PMSCLP	13.00	330.0	0.75 -	19.0 -	5	1
			2.25	57.0		
PMSCLN	17.00	431.8	2.25 -	57.0 -	5	1
			3.25	83.0		
PMSCLM	17.00	431.8	3.25 -	83.0 -	5	1
			6.00	152.0		

#### **Self-Laminating Adhesive Sign Carriers**

- Convert any printed paper page to a laminated, adhesive sign
- Print paper sign using a laser/ink jet printer
- Cut out paper sign and insert into the self-laminating carrier
- For indoor use on a clean and dry surface

Part Number	Carrier Size In. (mm)	Maximum Label Size In. (mm)	Carriers/ Pkg.	Std. Pkg. Qty.
SEZ-SNC4	7.00 x 6.00	6.00 x 5.00		
	(177.8 x 152.4)	(152.4 x 127.0)		
SEZ-SNC3	10.50 x 7.00	9.50 x 6.00		
	(266.7 x 177.8)	(241.3 x 152.4)	_	
SEZ-SNC2	12.00 x 6.00	11.00 x 5.00	5	
	(304.8 x 152.4)	(279.4 x 127.0)		
SEZ-SNC1	12.00 x 9.50	11.00 x 8.50		
	(304.8 x 241.3)	(279.4 x 215.9)		



Print paper marker using a laser or ink jet printer and cut out with scissors.



Place marker between the two pieces of self-adhesive laminate liner.



Remove top adhesive liner by peeling and press firmly onto top of marker.



Remove liner on back of carrier and adhere to clean, dry surface.

# Self-Laminating Non-Adhesive Rigid Sign Carriers

- · Convert paper to rigid indoor signs
- Print paper tag using a laser/ink jet printer
- Cut out paper sign and insert into the self-laminating carrier
- For indoor use on a clean and dry surface

Part Number	Carrier Size In. (mm)	Maximum Label Size In. (mm)	Carriers/ Pkg.	Std. Pkg. Qty.
SEZ-RSC1	7.00 x 6.00 (177.8 x 152.4)	6.00 x 5.00 (152.4 x 127.0)		
SEZ-RSC2	10.50 x 7.00 (266.7 x 177.8)	9.50 x 6.00 (241.3 x 152.4)	_	_
SEZ-RSC3	12.00 x 9.50 (304.8 x 241.3)	11.00 x 8.50 (279.4 x 215.9)	5	1
SEZ-RSC4	12.00 x 6.00 (304.8 x 152.4)	11.00 x 5.00 (279.4 x 127.0)		



#### **Create Your Own Tags**

#### **Indoor Rigid Vinyl Safety Tag Carriers** for Laser or Ink Jet Printers

- Create your own rigid indoor tags with protected legends in minutes using a laser or ink jet printer!
- · Cut out paper sign and insert into the self-laminating carrier
- Using the PST Tag carrier allows tags to be resistant to mild chemicals and acids
- Self-laminating vinyl material for rigid carrier
- · Sturdy brass grommet provides extra durability
- Panduit PLT2S (7.40") nylon ties included for quick and easy installation
- Meet OSHA Standard 1910.147 for lockout tag 50 lb. pull force requirement



Print paper tag using a laser/ink jet printer. Use scissors to cut out tag.



Place tag between self-adhesive laminate liner and rigid vinyl backing. Fasten tag with Panduit cable tie.

-	Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
	PST-4	3.50" x 5.75" (88.9mm x 146.1mm), front only lamination, 25 carriers per package.	1	4
_	PST-5	3.50" x 5.75" (88.9mm x 146.1mm), front and back lamination, 25 carriers per package.	1	4
	PST-1	3.00" x 2.00" (76.2mm x 50.8mm), front only lamination, 10 carriers per package.	1	20
	PST-2	3.25" x 5.75" (82.6mm x 146.1mm), front only lamination, 5 carriers per package.	1	20

**Lockout Devices** 

# PANDUIT®

#### **Create Your Own Tags (continued)**

# **Economical Card Stock Tags for Ink Jet Printers**



- Economical solution for temporary, indoor tags
- Ink jet printable card stock material for semi-rigid tag with perforation for easy tag separation and punched hole for hanging

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SEZ-TAGWH	3.00" x 5.00" (76.2mm x 127.0mm), white, four tags per sheet, 25 sheets per package.	1	5
SEZ-TAGOR	3.00" x 5.00" (76.2mm x 127.0mm), orange, four tags per sheet, 25 sheets per package.	1	5
SEZ-TAGY	3.00" x 5.00" (76.2mm x 127.0mm), yellow, four tags per sheet, 25 sheets per package.	1	5

#### **Voltage and Safety Marker Books**



PSSB-13

- Vinyl indoor
- Each Marker–

Marker Size: 1.50" High x 3.25" Wide

(38.1mm x 82.6mm) 3 Markers per page

30 Markers per book

		Std. Pkg.	Std. Ctn.
Part Number	Part Description	Qty.	Qty.
Voltage Marker	'S		
PCVB-110Y	Voltage Marker Book, Vinyl, '110 Volts'.	1	10
PCVB-220Y	Voltage Marker Book, Vinyl, '220 Volts'.	1	10
PCVB-277Y	Voltage Marker Book, Vinyl, '277 Volts'.	1	10
PCVB-277/480Y	Voltage Marker Book, Vinyl, '277/480 Volts'.	1	10
PCVB-440Y	Voltage Marker Book, Vinyl, '440 Volts'.	1	10
PCVB-480Y	Voltage Marker Book, Vinyl, '480 Volts'.	1	10
PCVB-4160Y	Voltage Marker Book, Vinyl, '4160 Volts'.	1	10
Safety Markers	•		

Sign Book, 'Danger High Voltage', red/black

on white.

10

#### **Voltage Markers**

#### Voltage and Fiber Optic Markers





- Vinyl indoor
- Color legend black; background orange
- · Each Marker-

Style A: 2.25" High x 9.00" Wide (57.2mm x 228.6mm)

1 Marker per card
Pipe/Conduit O.D. Range 3.00"
(76.2mm) and over

Style B: 1.13" High x 4.50" Wide (28.7mm x 114.3mm)

4 Markers per card

Pipe/Conduit O.D. Range 1.25" – 3.00" (31.8mm – 76.2mm)

Style C: 0.50" High x 2.25" Wide (12.7mm x 57.2mm)18 Markers per card Pipe/Conduit O.D. Range 1.25" (31.8mm) and under

Standard package quantity – 5 cards

Standard package quantity – 5 cards						
	Part Number					
Style A	Style B	Style C	Legend			
PCV-110AY	PCV-110BY	PCV-110CY	110 Volts			
PCV-115AY	PCV-115BY	PCV-115CY	115 Volts			
PCV-120/208AY	PCV-120/208BY	PCV-120/208CY	120/208 Volts			
PCV-120AY	PCV-120BY	PCV-120CY	120 Volts			
PCV-12470AY	PCV-12470BY	PCV-12470CY	12470 Volts			
PCV-13200AY	PCV-13200BY	_	13200 Volts			
PCV-13800AY	PCV-13800BY	PCV-13800CY	13800 Volts			
PCV-1PHAY	PCV-1PHBY	PCV-1PHCY	Single Phase			
PCV-208AY	PCV-208BY	PCV-208CY	208 Volts			
PCV-220AY	PCV-220BY	PCV-220CY	220 Volts			
PCV-2300AY	PCV-2300BY	PCV-2300CY	2300 Volts			
PCV-230AY	PCV-230BY	PCV-230CY	230 Volts			
PCV-2400AY	PCV-2400BY	PCV-2400CY	2400 Volts			
PCV-240AY	PCV-240BY	PCV-240CY	240 Volts			
_	PCV-24VDCBY	_	24 Volts DC			
PCV-277/480AY	PCV-277/480BY	PCV-277/480CY	277/480 Volts			
PCV-277AY	PCV-277BY	PCV-277CY	277 Volts			
PCV-380AY	PCV-380BY	PCV-380CY	380 Volts			
PCV-3PHAY	PCV-3PHBY	PCV-3PHCY	Three Phase			
PCV-415AY	PCV-415BY	PCV-415CY	415 Volts			
PCV-4160AY	PCV-4160BY	PCV-4160CY	4160 Volts			
PCV-440AY	PCV-440BY	PCV-440CY	440 Volts			
PCV-460AY	PCV-460BY	PCV-460CY	460 Volts			
PCV-480AY	PCV-480BY	PCV-480CY	480 Volts			
PCV-600AY	PCV-600BY	PCV-600CY	600 Volts			
PCV-BLANKAY	PCV-BLANKBY	PCV-BLANKCY	Blank-No Legend			
PCV-ESAY	PCV-ESBY	PCV-ESCY	Emergency Service			
PCV-FAAY	PCV-FABY	PCV-FACY	Fire Alarm			
PCV-FOAY	PCV-FOBY	PCV-FOCY	Fiber Optic			
PCV-FOCAY	PCV-FOCBY	PCV-FOCCY	Fiber Optic			
PCV-MAINAY	PCV-MAINBY	PCV-MAINCY	Main			
PCV-TELEAY	PCV-TELEBY	PCV-TELECY	Telephone			



#### Voltage and Fiber Optic Markers (continued)



- Semi-Rigid Polyester indoor/outdoor
- Color legend black; background orange
- Each Marker–

Style M: 23.00" High x 14.00" Wide

(584.2mm x 355.6mm)

Snap-on markers (non-adhesive)

Pipe/Conduit O.D. Range 2.25" - 6.00"

(57.2 mm - 152.4 mm)

Style R: 8.00" High x 8.00" Wide

(203.2mm x 203.2mm)

Snap-on markers (non-adhesive)

Pipe/Conduit O.D. Range 0.75" - 2.25"

(19.1mm - 152.4mm)

Standard package quantity – 5 cards

Part N		
Style M	Style R	Legend
_	PCV-120RY	120 Volts
_	PCV-480RY	480 Volts
_	PCV-FORY	Fiber Optic
PCV-FOMY	_	Fiber Optic

#### **Custom Pipe Markers and Voltage Markers**

If your application demands custom printed information for your conduit or pipe marking, Panduit offers many options of custom printed markers, Options include:

#### Pipe Markers

Pressure Sensitive Adhesive Vinyl

#### LEGEND

Semi-Rigid Snap-On



Rigid Snap-On



Conduit and Voltage Markers Pressure Sensitive Adhesive Vinyl



Semi-Rigid Snap-On



Fill out the custom order form with your specific values and information, Panduit will create and print the specified markers. Look for the icon shown here at www.panduit.com/safety to download electronic copies of the Custom Pipe Marker and Custom Conduit and Voltage Marker order forms.



Inde



#### **Warning Labels**

#### Labels in Dispenser



- Provided in a handy dispenser for convenience and label protection
- Made of durable, adhesive backed polyester material

Part Number	Label Size In. (mm)	Labels/ Dispenser	Std. Pkg. Qty.
PLD-*	1.50" x 1.00" (38.1mm x 25.4mm)	200	1 Disp.

‡Can be clearly identified with Panduit permanent marking pens, page D16.



PLD-12‡





PLD-43‡



PLD-37



PLD-38 240 V PLD-46 277 V PLD-47 277 V/480 V PLD-91 480 V



PLD-52 ISO 3864



PLD-56 ISO 3864



PLD-58



PLD-67



PLD-68‡



PLD-72



PLD-74

INTRINSICALLY SAFE WIRING

**PLD-80** 

**SERVICE** DISCONNECT

PLD-81

# PANDU

#### Labels in Dispenser (continued)

Part Number	Diameter (In.)	Diameter (mm)	Labels Per Dispenser	Std. Pkg. Qty.
PLD-*	0.75	19.1	300	1









PLD-77



Part Number	Overall Size W x H (In.)	Overall Size W x H (mm)	Labels Per Dispenser	Std. Pkg. Qty.
PLD-60	3.00 x 1.00	76.2 x 25.4	100	1
PLD-71	2.00 x 1.00	50.8 x 25.4	150	1



PLD-60

WARNING - For Continued Protection Against Fire, Replace Only With Same Type and Rating

PLD-71

#### Write-On Quality Labels in Dispenser

Part Number	Overall Size W x H (In.)	Overall Size W x H (mm)		Std. Pkg. Qty.
PLD-*	1.50 x 1.00	38.1 x 25.4	200	1







PLD-11

CALIBRATION BY\_\_\_\_ DATE\_ DUE\_

PLD-17

**INSPECTED** DATE . INITIALS\_

PLD-18

MAINTENANCE

PLD-22

DUE.

**CALIBRATION** BY\_\_\_\_ DATE

**ACCEPTED** BY\_ DATE.

PLD-28

**TESTED** DATE.

PLD-29

PLD-3 PLD-4 PLD-7

# PANDU

#### **Inspection Plates**



- The ideal system for fast recognition of inspection intervals and maintenance dates for safety testing
- · Vinyl label will destruct upon removal; for permanent and tamper resistant labeling applications
- Indoor/outdoor rated



Part Number	Part Description	Std. Pkg. Qty.
PEIP-A-12Y	Inspection plate label, vinyl, 12, 0.59" (15.0mm) diameter, 10 marker/card, white legend on orange background.	10
PEIP-A-13Y	Inspection plate label, vinyl, 13, 0.59" (15.0mm) diameter, 10 marker/card, white legend on purple background.	10
PEIP-A-14Y	Inspection plate label, vinyl, 14, 0.59" (15.0mm) diameter, 10 marker/card, white legend on green background.	10
PEIP-A-15Y	Inspection plate label, vinyl, 15, 0.59" (15.0mm) diameter, 10 marker/card, white legend on blue background.	10
PEIP-D-12Y	Inspection plate label, vinyl, 2012, 1.38" (35.1mm) diameter, 5 marker/card, white legend on orange background.	10
PEIP-D-13Y	Inspection plate label, vinyl, 2013, 1.38" (35.1mm) diameter, 5 marker/card, white legend on purple background.	10
PEIP-D-14Y	Inspection plate label, vinyl, 2014, 1.38" (35.1mm) diameter, 5 marker/card, white legend on green background.	10
PEIP-D-15Y	Inspection plate label, vinyl, 2015, 1.38" (35.1mm) diameter, 5 marker/card, white legend on blue background.	10

## **Inspection Arrows**



- Arrows are re-positionable
- Pin-point rework areas on circuit boards and equipment

PANDU

Vinyl cloth for durability and easy removal

Part Number	Symbol	Part Description	Std. Pkg. Card.
PARW125-RED		0.13" x 0.10" (3.3mm x 2.5mm), black/red, adhesive vinyl cloth inspection arrow label, 576 labels per card.	25
PARW125-YEL		0.13" x 0.10" (3.3mm x 2.5mm), black/yellow, adhesive vinyl cloth inspection arrow label, 576 labels per card.	25

### **Electrical Symbols on Cards**

Part Number	Material		Overall Size W x H (mm)	Markers/ Card	Std. Pkg. Qty.
PESC-H-*	Vinyl Cloth	0.51 x 0.51	12.9 x 12.9	68	10 Cards
PESC-J*	Vinyl Cloth	0.75 x 0.75	19.1 x 19.1	36	10 Cards
PCWL*	Vinyl Cloth	1.50 x 0.63	38.1 x 16.0	14	25 Cards



PESC-H-PE PESC-J-PE **Protective Conductor** 



PESC-H-EC PESC-J-EC Safety Function



PESC-H-AT PESC-J-AT Warning of Dangerous **Electrical Voltage** 



PESC-H-HT PESC-J-HT Static Sensitive Device -**Precautions Required** 



PESC-H-E PESC-J-E Earth (Ground)

### Write-on Labels on Cards

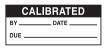




PCWL-BL



PCWL-CAL



**PCWL-CALD** 



PCWL-ICAL



**PCWL-REJ** 

### **Conductor and Regulatory Identification Labels**

Part Number	Marker Diameter In. (mm)	Markers/ Card	Std. Pkg. Qty.
PESS-A-*	0.49 (12.5)	20	10 Sheets
PESS-B-*	0.63 (16.0)	20	10 Sheets
PESS-C-*	0.79 (20.0)	10	10 Sheets
PESS-D-*	0.98 (25.0)	10	10 Sheets
PESS-E-*	1.24 (31.5)	10	10 Sheets



PESS-A-CE PESS-B-CE PESS-C-CE PESS-D-CE PESS-E-CE



PESS-A-ES PESS-B-ES PESS-C-ES PESS-D-ES PESS-E-ES

\* Dotted line represents cut line and will not show on label.



Safety Function\* PESS-A-SS PESS-B-SS PESS-C-SS PESS-D-SS





Outer Conductor - L1

PESS-A-L1 PESS-B-L1 PESS-C-L1 PESS-D-L1 PESS-E-L1



Outer Conductor - L2

PESS-A-L2 PESS-B-L2 PESS-C-L2 PESS-D-L2 PESS-E-L2



Outer Conductor - L3 PESS-A-L3 PESS-B-L3

PESS-C-L3 PESS-D-L3 PESS-E-L3

Related Products



Neutral Conductor - N PESS-A-N

PESS-B-N PESS-C-N PESS-D-N



Protective Conductor - PE PESS-A-PE



Lead Free - LF PESS-A-LF

continued on page D50.

# Conductor and Regulatory Identification Labels (continued)



PESS-A-ROHS



PESS-A-RCIO



PESS-A-RCE



PESS-A-RC50



PESS-A-RC25

## **ISO Warning Symbols**

	Label Width	Marker	Std. Pkg.
Part Number	In. (mm)	Qty.	Qty.
PESW-A-*	0.50 (13.0)	10/card	10 cards
PESW-AA-11Y	0.30 (7.6)	80/card	10 cards
PESW-B-*	1.00 (25.4)	10/card	10 cards
PESW-C-*	1.97 (50.0)	10/card	10 cards
PESW-D-*	3.90 (99.1)	3/card	10 cards
PESW-E-*	7.90 (200.7)	1/card	10 cards



PESW-\*-1Y Caution – Risk of Electric Shock



PESW-\*-6Y Caution – Risk of Ionizing Radiation



PESW-\*-8Y Caution – Laser Beam



PESW-\*-9Y Caution – General Warning, Risk of Danger



PESW-\*-11Y Warning of Static Sensitive Device



PESW-AA-11Y Warning of Static Sensitive Device

# ISO Warning Symbols (continued)

Part Number	Overall Size W x H (In.)	Overall Size W x H (mm)	Labels Per Roll	Std. Pkg. Qty.
WL1	2.00 x 2.00	50.8 x 50.8	500	1
WL3	2.00 x 2.00	50.8 x 50.8	500	1

Part Number	Triangle Width (In.)	Triangle Width (mm)	Labels Per Pkg.	Std. Pkg. Qty.
WL32Y	1.50	38.1	50	1
WL33Y	4.50	114.3	50	1
WL35Y	2.00	50.8	50	1
WL36Y	2.00	50.8	50	1



WL1 Static Awareness Warning



WL3 Static Awareness Warning



WL32Y Risk of Electric Shock



WL33Y Risk of Electric Shock



WL35Y Caution – Hot Surface Warning



WL36Y Warning – Hot Surface Warning

Ind

**Lockout Devices** 

## Other ISO Symbols

• Symbols denote a mandatory action without the use of words

Part Number	Symbol	Marker Diameter (In.)	Markers Per Card	Symbol Represents	Std. Pkg. Cards.
Mandator	y Symbo	ls			
PESG-B-1		0.98	10	UNPLUG EQUIPMENT	10
PESG-C-1	<b>□</b>	1.97	5	BEFORE OPENING	10
PESG-C-2		1.97	5	EYE PROTECTION	10
PESG-E-2		7.87	1	MUST BE WORN	10
PESG-E-3	0	7.87	1	HEAD PROTECTION MUST BE WORN	10
PESG-C-4		1.97	5	HEARING	10
PESG-E-4	U	7.87	1	PROTECTION MUST BE WORN	10
Prohibitio	n Symbo	ols			
PESV-C-3		1.97	5		10
PESV-D-3		3.94	1	SMOKING	10
PESV-E-3	W	7.87	1	PROHIBITED	10

Part Number	Symbol	Size W x H (In.)	Markers Per Card	Symbol Represents	Std. Pkg. Cards.
Safe Proc	edure Sy	ymbols			
PESH-D-2		3.94 x 3.94	1	FIRST AID	10
PESH-E-6	<b>©+</b> T	7.87 x 7.87	1	EYEWASH	10
Cina Carrie		ا ما مس			

Related Products

Fire Equip PESF-D-3

	ment	J
Ī		

noam			
3.94 x 3.94	1	FIRE EXTINGUISHER	10

Index

Regulatory Standards

# Tapes, Letters, and Numbers

## **Hazard Tape**



- Self-adhesive striped warning/hazard tape
- Color coded for quick identification
- Can be used in place of paint
- Durable vinyl continuous tape for indoor use

Part Number	Color	Width (In.)	Width (mm)	Roll Length (Ft.)	Roll Length (m)	Std. Pkg. Qty.
HT2S-BLK-YEL	Black/Yellow	2.00	50.8	54.00	16.5	1
HT2S-RED-WHT	Red/White	2.00	50.8	54.00	16.5	1
HT3S-BLK-YEL	Black/Yellow	3.00	76.2	54.00	16.5	1
HT3S-RED-WHT	Red/White	3.00	76.2	54.00	16.5	1

# **Solid Color Adhesive Warning Tape**



- Used to identify hazards, traffic lanes, etc.
- Installs faster and lasts longer than paint
- Durable vinyl continuous tape for indoor use

Part Number	Color	Width (In.)	Width (mm)	Roll Length (Ft.)	Roll Length (m)	Std. Pkg. Qty.
HT2-BLU	Blue	2.00	50.8	180.00	55.0	1
HT2-GRN	Green	2.00	50.8	180.00	55.0	1
HT2-ORN	Orange	2.00	50.8	180.00	55.0	1
HT2-RED	Red	2.00	50.8	180.00	55.0	1
HT2-YEL	Yellow	2.00	50.8	180.00	55.0	1
HT2-WHT	White	2.00	50.8	180.00	55.0	1



### **Thermal Transfer Continuous Tapes**



- Tapes offer crisp, clear legends with superior legibility
- Available in continuous color vinyl or clear polyester and supplied on rolls
- Panduit labeling software packages include all label formats for quick and easy label production

			Hei	ight	Leng	th	Std. Pkg.
F T	Part Number	Part Description	ln.	mm	Ft.	m	Qty.
Т	100X000VP1Y	White, vinyl tape.	1.00	25.4	100.00	30.5	1
Т	100X000VQ1Y	Blue, vinyl tape.	1.00	25.4	100.00	30.5	1
Т	100X000VS1Y	Green, vinyl tape.	1.00	25.4	100.00	30.5	1
Т	100X000VU1Y	Orange, vinyl tape.	1.00	25.4	100.00	30.5	1
T	T100X000VW1Y	Red, vinyl tape.	1.00	25.4	100.00	30.5	1
T	T100X000VX1Y	Yellow, vinyl tape.	1.00	25.4	100.00	30.5	1
T	T100X000VY1Y	Black, vinyl tape.	1.00	25.4	100.00	30.5	1
T	200X000VP1Y	White, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VQ1Y	Blue, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VS1Y	Green, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VU1Y	Orange, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VV1Y	Purple, vinyl tape.	2.00	50.8	100.00	30.5	1
T	C200X000VW1Y	Red, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VX1Y	Yellow, vinyl tape.	2.00	50.8	100.00	30.5	1
T	200X000VY1Y	Black, vinyl tape.	2.00	50.8	100.00	30.5	1
T	C200X000YK1	Clear, polyester tape.	2.00	50.8	100.00	30.5	1
T	C200X000YK1	Clear, polyester tape.	2.00	50.8	100.00	30.5	1
T	7400X000VP1Y	White, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000VQ1Y	Blue, vinyl tape.	4.00	101.6	100.00	30.5	1
T	7400X000VS1Y	Green, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000VU1Y	Orange, vinyl tape.	4.00	101.6	100.00	30.5	1
Т	T400X000VV1Y	Purple, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000VW1Y	Red, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000VX1Y	Yellow, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000VY1Y	Black, vinyl tape.	4.00	101.6	100.00	30.5	1
T	T400X000YK1	Clear, polyester tape.	4.00	101.6	100.00	30.5	1

rolyestel Ovel	olyester Over-Laminate						
T225X000YK1	Clear, non-printable polyester tape.	2.25	57.2	100.00	30.5	1	
	Clear, non-printable polyester tape.	4.25	107.9	100.00	30.5	1	

## **Photoluminescent Tapes**





**Blackout** 

 Used to mark egress routes, fire alarms, and fire equipment that is clearly visible for up to ten hours after power is lost

- Absorb energy from ambient light and releases this energy in the form of a glow when power is lost
  - Can be used in Panduit thermal transfer desktop printers to create direction arrow tape, striped tape, or safety signs on demand
- Panduit photoluminescent tapes meet or exceed the following safety standard specification for photoluminescent safety markings including: ASTM E 2072-00, ASTM E 2073-00, ASTM E 2030-99, DIN67510-1, IMO Resolution A.752.18, ISO/CD 15370, DIN 67510, UL924, ASTM 162, ASTM 648, ASTM 662, MIL-L-3891 B, NFPA 101 Life Safety Code, OSHA 1910.37







PT2S-ARW

PT2S-BLK

PT2S-RED

Part Number	Legend	Width (In.)	Width (mm)	Roll Length (Ft.)	Roll Length (m)	Std. Pkg. Qty.		
Pre-Printed	Pre-Printed							
PT2S-ARW	Black Arrow	2.00	50.8	30.00	9.1	1		
PT2S-BLK	Black Stripe	2.00	50.8	30.00	9.1	1		
PT2S-RED	Red Stripe	2.00	50.8	30.00	9.1	1		
D				-				

### Blank

T200X000Y2T	_	2.00	50.8	15.00	4.5	1
T400X000Y2T		4.00	101.6	15.00	4.5	1

See page D29 for information on Photoluminescent Signs.



### **Reflective Tapes**



- Reflective sheeting tapes can be used for illuminating or highlighting a range of objects
- Increases safety during power outages or other low light conditions
- Custom legends can be printed using a Panduit TDP43ME thermal printer
- Tapes are laminated for improved print quality and durability

Part Number	Color	Width (In.)	Width (mm)	Length (Ft.)	Length (m)	Std. Pkg. Qty.
T100X000RP1	White	1.00	25.4	50.00	15.2	1
T100X000RU1	Orange	1.00	25.4	50.00	15.2	1
T100X000RX1	Yellow	1.00	25.4	50.00	15.2	1
T200X000RP1	White	2.00	50.8	50.00	15.2	1
T200X000RU1	Orange	2.00	50.8	50.00	15.2	1
T200X000RX1	Yellow	2.00	50.8	50.00	15.2	1
T300X000RP1	White	3.00	76.2	50.00	15.2	1
T400X000RP1	White	4.00	101.6	50.00	15.2	1
T400X000RQ1	Blue	4.00	101.6	50.00	15.2	1
T400X000RU1	Orange	4.00	101.6	50.00	15.2	1
T400X000RW1	Red	4.00	101.6	50.00	15.2	1
T400X000RX1	Yellow	4.00	101.6	50.00	15.2	1

### **Barricade Tapes**



- · Used to warn of temporary hazards
- Attaches easily to posts, walls, etc.
- Highly visible 2.00" (51.0mm) black legends on yellow background
- Made of non-adhesive polyethylene film
- Supplied in rolls of 1000 feet (30.5 meters)

Part Number	Legend	Color (Legend/ Background)	Width (In.)	Width (mm)	Std. Pkg. Qty.
HTB3-C-M	CAUTION	Black/Yellow	3.00	76.2	1
HTB3-DNE-M	CAUTION DO NOT ENTER	Black/Yellow	3.00	76.2	1
HTB3-HV-M	CAUTION HIGH VOLTAGE	Black/Yellow	3.00	76.2	1

ndex

**Training Products** 

# PANDUIT®

### **Underground Hazard Tape**



- · Used to warn of buried utility lines
- HTDU\* parts are made of detectable laminated aluminum tape
- Supplied in rolls of 1000 feet (30.5 meters)

Part Number	Legend	Color (Legend/ Background)	Width (In.)	Width (mm)	Std. Pkg. Qty.	
Laminated D	etectable Alumin	um				
HTDU2B-W	CAUTION WATER LINE BURIED BELOW	Black/Blue	2.00	50.8	1	
HTDU2O-FO	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	2.00	50.8	1	
HTDU2O-T	CAUTION TELEPHONE LINE BURIED BELOW	Black/Orange	2.00	50.8	1	
HTDU2R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	2.00	50.8	1	
HTDU3B-W	CAUTION WATER LINE BURIED BELOW	Black/Blue	3.00	76.2	1	
HTDU3G-S	CAUTION SEWER LINE BURIED BELOW	Black/Green	3.00	76.2	1	
HTDU3O-FO	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	3.00	76.2	1	
HTDU3O-T	CAUTION TELEPHONE LINE BURIED BELOW	Black/Orange	3.00	76.2	1	
HTDU3R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	3.00	76.2	1	
HTDU6O-FO	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	6.00	152.4	1	

continued on page E6.

# **Underground Hazard Tape (continued)**

Part Number	Legend	Color (Legend/ Background)	Width (ln.)	Width (mm)	Std. Pkg. Qty.
HTDU6O-T	CAUTION TELEPHONE LINE BURIED BELOW	Black/Orange	6.00	152.4	1
HTDU6R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	6.00	152.4	1
French Lege	nd				
HTDU2B-W-F	CAUTION WATER LINE BURIED BELOW (French Legend)	Black/Blue	2.00	50.8	1
HTDU3O-FO-	CAUTION FIBER OPTIC CABLE BURIED BELOW (French Legend)	Black/Orange	3.00	76.2	1
HTDU3R-E-F	CAUTION ELECTRIC LINE BURIED BELOW (French Legend)	Black/Red	3.00	76.2	1



- · Used to warn of buried utility lines
- HTU\* parts are made of polyethylene tape
- Supplied in rolls of 1000 feet (30.5 meters)

Part Number	Legend	Color (Legend/ Background)	Width (In.)	Width (mm)	Std. Pkg. Qty.
Polyethylene		3,	,	,	
HTÚ3G-Ť-M	CAUTION TELEPHONE LINE BURIED BELOW	Black/Green	3.00	76.2	1
HTU3O-FO-M	CAUTION FIBER OPTIC CABLE BURIED BELOW	Black/Orange	3.00	76.2	1
HTU3O-T-M	CAUTION TELEPHONE LINE BURIED BELOW	Black/Orange	3.00	76.2	1
HTU3R-E-M	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	3.00	76.2	1

# **Underground Hazard Tape (continued)**

Part Number	Legend	Color (Legend/ Background)	Width (In.)	Wldth (mm)	Std. Pkg. Qty.
HTU3Y-E-M	CAUTION ELECTRIC LINE BURIED BELOW	Black/Yellow	3.00	76.2	1
HTU6O-TV	CAUTION CABLE TV LINE BURIED BELOW	Black/Orange	6.00	152.4	1
HTU6R-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Red	6.00	152.4	1
HTU6O-FO	CAUTION BURIED FIBER OPTIC CABLE	Black/Orange	6.00	152.4	1
HTU6O-T	CAUTION TELEPHONE LINE BURIED BELOW	Black/Orange	6.00	152.4	1
HTU6Y-E	CAUTION ELECTRIC LINE BURIED BELOW	Black/Yellow	6.00	152.4	1
HTU6Y-G	CAUTION GAS LINE BURIED BELOW	Black/Yellow	6.00	152.4	1
French Lege	nd				
	CALIFICAL	D1 1 0 / 11			

French Lege	French Legend					
HTU3Y-E-M-F	CAUTION ELECTRIC LINE BURIED BELOW (French Legend)	Black/Yellow	3.00	76.2	1	
HTU3Y-EF	CAUTION ELECTRIC LINE BURIED BELOW (English/French)	Black/Yellow	3.00	76.2	1	

### **Custom Printed Utility Tapes**

If your application demands custom printed information for your utility tapes Panduit offers many custom printed options. Fill out the Custom Printed Utility Tapes order form with your specific information and Panduit will create and print the specified tapes. Look for the icon below at www.panduit.com/safety to download electronic copies of the Custom Printed Utility Tapes order form.



### Vinyl Letters and Numbers



- · Identify shelving, cable tray, racks, etc.
- Vinyl material designed for indoor and outdoor marking

Part Number	Legend	Legend Height In. (mm)	Overall Size W x H In. (mm)	Markers Per Card	Std. Pkg. Qty.
Black Legend On	Yellow E	Backgroui	nd		
PVL100BY-0-Y	0				25 Cards
PVL100BY-1-Y thru PVL100BY-9-Y	1 thru 9		0.88 x 1.50 (22.4 x 38.1)	25 Cards	
PVL100BY-A-Y thru PVL100BY-Z-Y PVL100BY-DSH-Y	A thru Z			10	25 Cards 25 Cards
PVL200BY-0-Y	0	2.00 (50.8)			25 Cards
PVL200BY-1-Y thru PVL200BY-9-Y	1 thru 9		0.88 x 2.25		25 Cards
PVL200BY-A-Y thru PVL200BY-Z-Y	A thru Z		(22.4 x 57.2)	10	25 Cards
PVL200BY-DSH-Y	-				25 Cards

## **Vinyl Cloth Letters and Numbers**



- Identify shelving, cable tray, racks, etc.
- Vinyl cloth material designed for indoor and outdoor marking

		Legend Height	Overall Size W x H	Markers	Std. Pkg.
Part Number	Legend	In. (mm)	In. (mm)	Per Card	Qty.
Black Legend	On Yellov	w Backgro	und		
PCL037-0	0				25 Cards
PCL037-1 thru	1 thru	0.38	0.34 x 0.50 (8.6 x 12.7)	78	25 Cards
PCL037-9	9				04.40
PCL037-0-9	0 thru 9				25 Cards
PCL037-A-Z	A thru Z				25 Cards
PCL037-A thru PCL037-Z	А				25 Cards
PCLCP037-0-9*	1 thru 5 6 thru 0				25 Cards
PCLCP037-A-Z^	A thru Z				26 Cards
PCL062-0	0		0.56 x 0.75 (14.2 x 19.1)	32	25 Cards
PCL062-0-9	0 thru 9				25 Cards
PCL062-1 thru PCL062-9	1 thru 9				25 Cards
PCL062-A	A				25
thru		0.63			Cards
PCL062-Z		(16.0)			
PCL062-A-Z	A thru Z				25 Cards
PCL062-DSH	-				25 Cards
PCLCP062-0-9*	1 thru 5 6 thru 0				25 Cards
PCLCP062-A-Z^	A thru Z				26 Cards
PCL100-0	0	1.00 (25.4)	0.88 x 1.50 (22.4 x 38.1)	10	25 Cards
PCL100-1	1				25
thru PCL100-9	thru 9				Cards
PCL100-0-9	0 thru 9				25 Cards
PCL100-A thru	Α				25 Cards
PCL100-Z					

<sup>\*1 – 5</sup> have 3 cards each; 6 - 0 have 2 cards each.

continued on page E10.

<sup>^</sup>Each letter has 1 card.



# Vinyl Cloth Letters and Numbers (continued)



Part Number	Legend	Legend Height In. (mm)	Overall Size W x H In. (mm)	Markers Per Card	Std. Pkg. Qty.
PCL100-A-J	A thru J				25 Cards
PCL100-K-T	K thru T	1.00	0.88 x 1.50 (22.4 x 38.1)	10	25 Cards
PCL100-U-Z	U thru Z				25 Cards
PCL100-DSH	_				25Cards
PCLCP100-0-9*	1 thru 5 6 thru 0	(25.4)			25 Cards
PCLCP100-A-Z^	A thru Z				26 Cards
PCL200-0	0		0.88 x 2.25 (22.4 x 57.2)	10	25 Cards
PCL200-1 thru PCL200-9	1 thru 9	2.00 (50.8)			25 Cards
PCL200-0-9	0 thru 9				25 Cards
PCL200-A thru PCL200-Z	A				25 Cards
PCL200-A-J	A thru J				25 Cards
PCL200-K-T	K thru T				25 Cards
PCL200-U-Z PCL200-DSH	U thru Z				25 Cards 25
					Cards
PCLCP200-0-9*	1 thru 5 6 thru 0				25 Cards
PCLCP200-A-Z^					26 Cards
PCL300-0	0	3.00 (76.2)	1.50 x 3.50 (38.1 x 88.9)	6	25 Cards
PCL300-1 thru PCL300-9	1 thru 9				25 Cards
PCL300-A thru PCL300-Z	A thru Z				25 Cards
PCL300-DSH	_				25 Cards
PCLCP300-0-9*	1 thru 5 6 thru 0				25 Cards
PCLCP300-A-Z^ *1 – 5 have 3 card					26 Cards

<sup>\*1 - 5</sup> have 3 cards each; 6 - 0 have 2 cards each.

<sup>^</sup>Each letter has 1 card.

Pkg.

Pkg.

25

### **Reflective Letters and Numbers**



- Identify shelving, cable tray, racks, etc.
- Vinyl cloth material designed for indoor and outdoor marking
- Black legend on yellow background

Part Number	Legend	Legend Height In. (mm)	Overall Size W x H In. (mm)	Markers Per Pkg.	Std. Pkg. Qty.
Black Legend On Yellow Background					
PRL100BY-0	0				
thru PRL100BY-9	thru				
	9				
PRL100BY-A	Α				
thru PRL100BY-Z	thru			25	
PRL100BY-DSH					
	_				
PRL100BY-BLNK	BLANK	1.00	1.00 x 1.63		4
PRL100BY-18KIT^	0 thru 9, A thru D, L, P, R, S	(25.4)	(25.4 x 41.4)	900	Pkg.
PRL100BY-36KIT*	0 thru 9, A thru Z, –, Blank			950	
Yellow Legend On Black Background					
PRL150YB-0	0				
thru	thru				
PRL150YB-9	9				

1.50

(38.1)

2.50

(63.5)

Α

thru

Z

0

thru

9

A

thru

Z

1.38 x 1.88

(35.1 x 47.8)

1.75 x 2.88

(44.5 x 73.2)

PRL250YB-Z	<u>.</u>
PRL250YB-D	DSH

PRL150YB-A

PRL150YB-Z

PRL250YB-0

PRL250YB-9

PRL250YB-A

PRL150YB-DSH

thru

thru

thru

Inde

<sup>^50</sup> of each legend. \*25 of each legend.

### **Notes**

### **Related Products**

# LS8EQ Hand-Held Printer with QWERTY Keypad

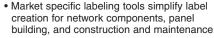


LS8EQ

 Innovative QWERTY keypad design delivers faster text entry and label design for enhanced productivity

PANDUIT®

- Cut-to-length functionality eliminates label waste and label trimming labor
- Partial-cut feature available to provide tear-apart strips of labels or individual cut labels for application flexibility and quicker installation



- Prints self-laminating labels, heat shrink tubing, die-cut component labels, marker plates, flag labels, and continuous tape for improved printer versatility
- Label cassette contains integrated memory device for automatic formatting, recall of last legend used and number of labels remaining in cassette for improved efficiency
- Fast-loading label cassette includes both label material and ribbon for easy label changeover
- USB interface for importing data, system upgrades, and printing from a wireless laptop or desktop computer to increase printer functionality
- Large graphic display with backlight improves visibility; ideal for printing labels at a remote job site



LS8EQ-KIT

# TDP43ME Thermal Transfer Desktop Printer and Accessories



TDP43ME

- Creates durable, crisp, clear legends and graphics that offer superior legibility
- Prints a wide variety of label sizes and materials
- Prints durable legends for harsh industrial environments
- Fine resolution for small type characters and images
- Solid printing of large characters and shapes
- Connects quickly and easily to PC, reduces time required for learning how to operate the printer and make adjustments
- Easy-Mark<sup>™</sup> Labeling Software included with printer
- Up to 4 inches per second print speed
- RoHS Compliant

Lockout Device:

Inde

### Easy-Mark™ Labeling Software



PROG-EMCD3 PROG-EM2GO

- Easy-Mark <sup>™</sup> Labeling Software simplifies label creation for the specific needs of your applications
- · Instructions and user interface are available in English, French, German, Italian, Spanish, Korean, Chinese, Portuguese, and Japanese
- Intuitive interview process allows automatic generation of compliant labels and signs
- Program lets you see labels on-screen as they will appear when printed to improve productivity and reduce errors
- WYSIWYG (What You See Is What You Get) user interface, alpha/numeric serialization, data import, symbol import
- Easy-Mark <sup>™</sup> Labeling Software is part of a complete line of innovative identification solutions from Panduit
- Easy-Mark <sup>™</sup> Labeling Software on a USB Flash Drive eliminates the need to install a dedicated copy on each computer
- Supports most Windows^ fonts drivers for standard thermal transfer, dot matrix, laser and ink jet, including Panduit thermal transfer printers
- · Revisions and enhancements including additional market specific labeling application tools will be available on the Panduit web site under: Support / Software, Firmware and Printers / **EASY-MARK Labeling Software**
- · Site license available for five additional installs per Easy-Mark ™ CD. Please contact Customer Service or your Panduit Distributor for additional information

### System Requirements:

- 64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)
- Windows^2000, Windows 7, XP, or Vista
- Mouse or compatible pointing device
- CD-ROM or USB Port

^Windows is a registered trademark of Microsoft Corp. in the United States

### **CAD-Connect<sup>™</sup> Labeling Software**



PROG-CCCD

- Facilitates quick and easy organization of identifiers from CAD for printing within Easy-Mark <sup>™</sup> Labeling Software
- Easily captures and organizes CAD data for future use and documentation
- Saves time and reduces errors by utilizing identifiers previously created in CAD files to eliminate manual entry of data into labeling software
- Compatible with full versions of AutoCAD\*
   2008 or newer and Visio^ version 2002 or newer
- Exports to alternative formats such as EXCEL^ (XLS) or Text (CSV) files for future use and documentation
- Upgrades are available on the Panduit web site under Support / Software, Firmware and Printers / CAD-Connect Labeling Software

### System Requirements:

- 64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)
- Mouse or compatible pointing device
- Windows^ 2000, XP, Vista, or Windows 7
- CD-ROM Drive

## Self-Laminating Labels



- Labels offer crisp, clear legends with superior legibility
- Include a colored print-on area and clear overlaminate to protect the legend for clear and durable identification
- Labels are available in a large range of wire/cable sizes

### Non-Laminated Labels



- Labels offer crisp, clear legends with superior legibility
- Use as a wrap around label or flag style marker for wire/cable labeling
- Labels are available in a large range of wire/cable sizes
- \*AutoCAD is a registered trademark of Autodesk, Inc.
- ^Windows, Visio and EXCEL are registered trademarks of Microsoft Corp. in the United States and/or other countries.

Lockout Device:

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### **W** Heat Shrink Labels



- · Labels offer crisp, clear legends with superior legibility
- Meets UL Standard 224 for flammability and UL Standard 2043 suitable for use in air handling spaces
- · Heat Shrink ratio 3:1, except for Halogen Free Heat Shrink ratio 2:1

### **Component Labels**



- · Labels offer crisp, clear legends with superior legibility
- Multiple-purpose and high-temperature labels for identifying flat surfaces such as components, control panels, circuit boards and general labeling

### Thermal Transfer Turn-Tell® Labels



- · Allows labels to rotate for visibility from any angle, and allows repositioning on the wire/cable to align legends for improved aesthetics
- Ideal for use in high density or space constrained cable applications
- Use thermal transfer hybrid ribbon
- Temperature range: -40°F to 200°F (-40°C to 107°C)
- RoHS Compliant
- Outdoor rated
- Available in P1 <sup>™</sup> Label Cassettes for the LS8E or LS8EQ printers and in computer printable rolls, for use with Easy-Mark Labeling Software and desktop thermal transfer printers

Inde



### Thermal Transfer Raised Panel Labels



- Delivers the look of engraved laminated plates with the convenience of printing on demand
- Strong holding power for rough, textured, and powder coated surfaces
- Provides crisp, clear, and durable legends for your reliable, high performance identification needs
- · Use thermal transfer resin ribbon
- UL969 recognized, File # MH14979; cUL recognized, C22.2 No. 0.15-01, File # MH14979
- Temperature range: -40°F to 212°F (-40°C to 100°C)
- Outdoor Rated
- RoHS Compliant

### Thermal Transfer Marker Plates



- Marker plates offer crisp, clear legends with superior legibility
- Print custom marker plates on demand with a thermal transfer printer
- Attachable in a horizontal or vertical orientation
- · Available in a variety of colors and sizes

### **M** Marker Books



- · Convenient, pocket-sized book
- Markers are perforated and can be torn in half to mark both ends of conductors
- Terminal block markers are included to properly identify connectors
- 10 pages of markers per book

## **R** Pre-Printed Marker Tape Dispenser



- Flexible polyester marker tape conforms tightly to wires/cables
- Dispenser allows marker tape to be cut to the exact length required for marking any size wire/cable
- Durable plastic dispenser can be attached to tool belt for industrial use

# Self-Laminating Wire Marker Dispenser



- Self-laminating labels are provided in handy dispenser which protects markers when not in use
- Clear section of marker overlaminates and protects write-on legend
- Quick, easy to use for smaller installations and maintenance

### **Network Security Lock-in Devices**

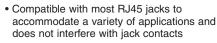


- Secures patch cords into a jack/adapter, preventing unauthorized removal
- Available for Copper (RJ45) and Fiber (LC duplex) patch cords
- RJ45 devices work with Panduit Category 5e, Category 6, and Category 6A (10Gig) cables
- Each device requires a special installation/removal tool

### **Network Security Blockout Devices**



 Blocks unauthorized access to jacks and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair and hardware replacement



- Can be installed/removed without interfering with adjacent jacks or hardware
- May only be released with the special removal tool, ensuring the safety and security of your network infrastructure Requires a special removal tool



### **Notes**

Inde

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### Occupational Health and Safety Administration (OSHA) Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147

1910.147(a)

Scope, application and purpose -

1910.147(a)(1)

Scope

1910.147(a)(1)(i)

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

1910.147(a)(1)(ii)

This standard does not cover the following:

1910.147(a)(1)(ii)(A)

Construction, agriculture and maritime employment;

1910.147(a)(1)(ii)(B)

Installations under the exclusive control of electric utilities for the purpose of power generation, transmission and distribution, including related equipment for communication or metering; and

1910.147(a)(1)(ii)(C)

Exposure to electrical hazards from work on, near, or with conductors or equipment in electric utilization installations, which is covered by Subpart S of this part; and

..1910.147(a)(1)(ii)(D)

1910.147(a)(1)(ii)(D)

Oil and gas well drilling and servicing.

1910.147(a)(2)

Application.

1910.147(a)(2)(i)

This standard applies to the control of energy during servicing and/or maintenance of machines and equipment.

1910.147(a)(2)(ii)

Normal production operations are not covered by this standard (See Subpart O of this Part). Servicing and/or maintenance which takes place during normal production operations is covered by this standard only if:

1910.147(a)(2)(ii)(A)

An employee is required to remove or bypass a guard or other safety device; or

1910.147(a)(2)(ii)(B)

An employee is required to place any part of his or her body into an area on a machine or piece of equipment where work is actually performed upon the material being processed (point of operation) or where an associated danger zone exists during a machine operating cycle.

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

Note: Exception to paragraph (a)(2)(ii): Minor tool changes and adjustments, and other minor servicing activities, which take place during normal production operations, are not covered by this standard if they are routine, repetitive, and integral to the use of the equipment for production, provided that the work is performed using alternative measures which provide effective protection (See Subpart O of this Part).

1910.147(a)(2)(iii)

This standard does not apply to the following:

..1910.147(a)(2)(iii)(A)

1910.147(a)(2)(iii)(A)

Work on cord and plug connected electric equipment for which exposure to the hazards of unexpected energization or start up of the equipment is controlled by the unplugging of the equipment from the energy source and by the plug being under the exclusive control of the employee performing the servicing or maintenance.

#### 1910.147(a)(2)(iii)(B)

Hot tap operations involving transmission and distribution systems for substances such as gas, steam, water or petroleum products when they are performed on pressurized pipelines, provided that the employer demonstrates that-

1910.147(a)(2)(iii)(B)(1)

continuity of service is essential;

1910.147(a)(2)(iii)(B)(2)

shutdown of the system is impractical; and

1910.147(a)(2)(iii)(B)(3)

documented procedures are followed, and special equipment is used which will provide proven effective protection for employees.

1910.147(a)(3)

Purpose.

1910.147(a)(3)(i)

This section requires employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices, and to otherwise disable machines or equipment to prevent unexpected energization, start up or release of stored energy in order to prevent injury to employees.

1910.147(a)(3)(ii)

When other standards in this part require the use of lockout or tagout, they shall be used and supplemented by the procedural and training requirements of this section.

1910.147(b)

Definitions applicable to this section.

**Affected employee.** An employee whose job requires him/her to operate or use a machine or equipment on which servicing or maintenance is being performed under lockout or tagout, or whose job requires him/her to work in an area in which such servicing or maintenance is being performed.

Lockout Device:

Inde

# PANDUIT®

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

**Authorized employee.** A person who locks out or tags out machines or equipment in order to perform servicing or maintenance on that machine or equipment. An affected employee becomes an authorized employee when that employee's duties include performing servicing or maintenance covered under this section.

Capable of being locked out. An energy isolating device is capable of being locked out if it has a hasp or other means of attachment to which, or through which, a lock can be affixed, or it has a locking mechanism built into it. Other energy isolating devices are capable of being locked out, if lockout can be achieved without the need to dismantle, rebuild, or replace the energy isolating device or permanently alter its energy control capability.

**Energized.** Connected to an energy source or containing residual or stored energy.

Energy isolating device. A mechanical device that physically prevents the transmission or release of energy, including but not limited to the following: A manually operated electrical circuit breaker; a disconnect switch; a manually operated switch by which the conductors of a circuit can be disconnected from all ungrounded supply conductors, and, in addition, no pole can be operated independently; a line valve; a block; and any similar device used to block or isolate energy. Push buttons, selector switches and other control circuit type devices are not energy isolating devices.

**Energy source.** Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal, or other energy.

**Hot tap.** A procedure used in the repair, maintenance and services activities which involves welding on a piece of equipment (pipelines, vessels or tanks) under pressure, in order to install connections or appurtenances. it is commonly used to replace or add sections of pipeline without the interruption of service for air, gas, water, steam, and petrochemical distribution systems.

**Lockout.** The placement of a lockout device on an energy isolating device, in accordance with an established procedure, ensuring that the energy isolating device and the equipment being controlled cannot be operated until the lockout device is removed.

**Lockout device.** A device that utilizes a positive means such as a lock, either key or combination type, to hold an energy isolating device in the safe position and prevent the energizing of a machine or equipment. Included are blank flanges and bolted slip blinds.

**Normal production operations.** The utilization of a machine or equipment to perform its intended production function.

Servicing and/or maintenance. Workplace activities such as constructing, installing, setting up, adjusting, inspecting, modifying, and maintaining and/or servicing machines or equipment. These activities include lubrication, cleaning or un-jamming of machines or equipment and making adjustments or tool changes, where the employee may be exposed to the unexpected energization or startup of the equipment or release of hazardous energy.

**Setting up.** Any work performed to prepare a machine or equipment to perform its normal production operation.

**Tagout.** The placement of a tagout device on an energy isolating device, in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

Tagout device. A prominent warning device, such as a tag and a means of attachment, which can be securely fastened to an energy isolating device in accordance with an established procedure, to indicate that the energy isolating device and the equipment being controlled may not be operated until the tagout device is removed.

..1910.147(c)

1910.147(c)

General -

1910.147(c)(1)

Energy control program. The employer shall establish a program consisting of energy control procedures, employee training and periodic inspections to ensure that before any employee performs any servicing or maintenance on a machine or equipment where the unexpected energizing, startup or release of stored energy could occur and cause injury, the machine or equipment shall be isolated from the energy source and rendered inoperative.

1910.147(c)(2)

### Lockout/tagout.

1910.147(c)(2)(i)

If an energy isolating device is not capable of being locked out, the employer's energy control program under paragraph (c)(1) of this section shall utilize a tagout system.

#### 1910.147(c)(2)(ii)

If an energy isolating device is capable of being locked out, the employer's energy control program under paragraph (c)(1) of this section shall utilize lockout, unless the employer can demonstrate that the utilization of a tagout system will provide full employee protection as set forth in paragraph (c)(3) of this section.

#### 1910.147(c)(2)(iii)

After January 2, 1990, whenever replacement or major repair, renovation or modification of a machine or equipment is performed, and whenever new machines or equipment are installed, energy isolating devices for such machine or equipment shall be designed to accept a lockout device.

1910.147(c)(3)

### Full employee protection.

#### 1910.147(c)(3)(i)

When a tagout device is used on an energy isolating device which is capable of being locked out, the tagout device shall be attached at the same location that the lockout device would have been attached, and the employer shall demonstrate that the tagout program will provide a level of safety equivalent to that obtained by using a lockout program.

### ..1910.147(c)(3)(ii)

#### 1910.147(c)(3)(ii)

In demonstrating that a level of safety is achieved in the tagout program which is equivalent to the level of safety obtained by using a lockout program, the employer shall demonstrate full compliance with all tagout-related provisions of this standard together with such additional elements as are necessary to provide the equivalent safety available from the use of a

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

lockout device. Additional means to be considered as part of the demonstration of full employee protection shall include the implementation of additional safety measures such as the removal of an isolating circuit element, blocking of a controlling switch, opening of an extra disconnecting device, or the removal of a valve handle to reduce the likelihood of inadvertent energization.

#### 1910.147(c)(4)

### Energy control procedure.

### 1910.147(c)(4)(i)

Procedures shall be developed, documented and utilized for the control of potentially hazardous energy when employees are engaged in the activities covered by this section.

Note: Exception: The employer need not document the required procedure for a particular machine or equipment, when all of the following elements exist: (1) The machine or equipment has no potential for stored or residual energy or reaccumulation of stored energy after shut down which could endanger employees; (2) the machine or equipment has a single energy source which can be readily identified and isolated; (3) the isolation and locking out of that energy source will completely de-energize and deactivate the machine or equipment; (4) the machine or equipment is isolated from that energy source and locked out during servicing or maintenance; (5) a single lockout device will achieve a locker-out condition; (6) the lockout device is under the exclusive control of the authorized employee performing the servicing or maintenance; (7) the servicing or maintenance does not create hazards for other employees; and (8) the employer, in utilizing this exception, has had no accidents involving the unexpected activation or re-energization of the machine or equipment during servicing or maintenance.

### 1910.147(c)(4)(ii)

The procedures shall clearly and specifically outline the scope, purpose, authorization, rules, and techniques to be utilized for the control of hazardous energy, and the means to enforce compliance including, but not limited to, the following:

### 1910.147(c)(4)(ii)(A)

A specific statement of the intended use of the procedure;

### 1910.147(c)(4)(ii)(B)

Specific procedural steps for shutting down, isolating, blocking and securing machines or equipment to control hazardous energy;

### 1910.147(c)(4)(ii)(C)

Specific procedural steps for the placement, removal and transfer of lockout devices or tagout devices and the responsibility for them; and

### ..1910.147(c)(4)(ii)(D)

### 1910.147(c)(4)(ii)(D)

Specific requirements for testing a machine or equipment to determine and verify the effectiveness of lockout devices, tagout devices, and other energy control measures.

Index

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

1910.147(c)(5)

Protective materials and hardware.

1910.147(c)(5)(i)

Locks, tags, chains, wedges, key blocks, adapter pins, self-locking fasteners, or other hardware shall be provided by the employer for isolating, securing or blocking of machines or equipment from energy sources.

#### 1910.147(c)(5)(ii)

Lockout devices and tagout devices shall be singularly identified; shall be the only devices(s) used for controlling energy; shall not be used for other purposes; and shall meet the following requirements:

1910.147(c)(5)(ii)(A)

Durable.

1910.147(c)(5)(ii)(A)(1)

Lockout and tagout devices shall be capable of withstanding the environment to which they are exposed for the maximum period of time that exposure is expected.

#### 1910.147(c)(5)(ii)(A)(2)

Tagout devices shall be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or the message on the tag to become illegible.

#### 1910.147(c)(5)(ii)(A)(3)

Tags shall not deteriorate when used in corrosive environments such as areas where acid and alkali chemicals are handled and stored.

### ..1910.147(c)(5)(ii)(B)

1910.147(c)(5)(ii)(B)

**Standardized.** Lockout and tagout devices shall be standardized within the facility in at least one of the following criteria: Color; shape; or size; and additionally, in the case of tagout devices, print and format shall be standardized.

1910.147(c)(5)(ii)(C)

Substantial -

1910.147(c)(5)(ii)(C)(1)

**Lockout devices.** Lockout devices shall be substantial enough to prevent removal without the use of excessive force or unusual techniques, such as with the use of bolt cutters or other metal cutting tools.

### 1910.147(c)(5)(ii)(C)(2)

Tagout devices. Tagout devices, including their means of attachment, shall be substantial enough to prevent inadvertent or accidental removal. Tagout device attachment means shall be of a non-reusable type, attachable by hand, self-locking, and non-releasable with a minimum unlocking strength of no less than 50 pounds and having the general design and basic characteristics of being at least equivalent to a one-piece, all environment-tolerant nylon cable tie.

### 1910.147(c)(5)(ii)(D)

**Identifiable.** Lockout devices and tagout devices shall indicate the identity of the employee applying the device(s).

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

### 1910.147(c)(5)(iii)

Tagout devices shall warn against hazardous conditions if the machine or equipment is energized and shall include a legend such as the following: Do Not Start. Do Not Open. Do Not Close. Do Not Energize. Do Not Operate.

..1910.147(c)(6)

1910.147(c)(6)

Periodic inspection.

### 1910.147(c)(6)(i)

The employer shall conduct a periodic inspection of the energy control procedure at least annually to ensure that the procedure and the requirements of this standard are being followed.

#### 1910.147(c)(6)(i)(A)

The periodic inspection shall be performed by an authorized employee other than the ones(s) utilizing the energy control procedure being inspected.

#### 1910.147(c)(6)(i)(B)

The periodic inspection shall be conducted to correct any deviations or inadequacies identified.

### 1910.147(c)(6)(i)(C)

Where lockout is used for energy control, the periodic inspection shall include a review, between the inspector and each authorized employee, of that employee's responsibilities under the energy control procedure being inspected.

### 1910.147(c)(6)(i)(D)

Where tagout is used for energy control, the periodic inspection shall include a review, between the inspector and each authorized and affected employee, of that employee's responsibilities under the energy control procedure being inspected, and the elements set forth in paragraph (c)(7)(ii) of this section.

### ..1910.147(c)(6)(ii)

### 1910.147(c)(6)(ii)

The employer shall certify that the periodic inspections have been performed. The certification shall identify the machine or equipment on which the energy control procedure was being utilized, the date of the inspection, the employees included in the inspection, and the person performing the inspection.

### 1910.147(c)(7)

### Training and communication.

### 1910.147(c)(7)(i)

The employer shall provide training to ensure that the purpose and function of the energy control program are understood by employees and that the knowledge and skills required for the safe application, usage, and removal of the energy controls are acquired by employees.

Inde

# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

The training shall include the following:

#### 1910.147(c)(7)(i)(A)

Each authorized employee shall receive training in the recognition of applicable hazardous energy sources, the type and magnitude of the energy available in the workplace, and the methods and means necessary for energy isolation and control.

### 1910.147(c)(7)(i)(B)

Each affected employee shall be instructed in the purpose and use of the energy control procedure.

#### 1910.147(c)(7)(i)(C)

All other employees whose work operations are or may be in an area where energy control procedures may be utilized, shall be instructed about the procedure, and about the prohibition relating to attempts to restart or reenergize machines or equipment which are locked out or tagged out.

#### 1910.147(c)(7)(ii)

When tagout systems are used, employees shall also be trained in the following limitations of tags:

### ..1910.147(c)(7)(ii)(A)

### 1910.147(c)(7)(ii)(A)

Tags are essentially warning devices affixed to energy isolating devices, and do not provide the physical restraint on those devices that is provided by a lock.

### 1910.147(c)(7)(ii)(B)

When a tag is attached to an energy isolating means, it is not to be removed without authorization of the authorized person responsible for it, and it is never to be bypassed, ignored, or otherwise defeated.

#### 1910.147(c)(7)(ii)(C)

Tags must be legible and understandable by all authorized employees, affected employees, and all other employees whose work operations are or may be in the area, in order to be effective.

### 1910.147(c)(7)(ii)(D)

Tags and their means of attachment must be made of materials which will withstand the environmental conditions encountered in the workplace.

### 1910.147(c)(7)(ii)(E)

Tags may evoke a false sense of security, and their meaning needs to be understood as part of the overall energy control program.

#### 1910.147(c)(7)(ii)(F)

Tags must be securely attached to energy isolating devices so that they cannot be inadvertently or accidentally detached during use.

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# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

1910.147(c)(7)(iii)

Employee retraining.

### ..1910.147(c)(7)(iii)(A)

### 1910.147(c)(7)(iii)(A)

Retraining shall be provided for all authorized and affected employees whenever there is a change in their job assignments, a change in machines, equipment or processes that present a new hazard, or when there is a change in the energy control procedures.

#### 1910.147(c)(7)(iii)(B)

Additional retraining shall also be conducted whenever a periodic inspection under paragraph (c)(6) of this section reveals, or whenever the employer has reason to believe that there are deviations from or inadequacies in the employee's knowledge or use of the energy control procedures.

### 1910.147(c)(7)(iii)(C)

The retraining shall reestablish employee proficiency and introduce new or revised control methods and procedures, as necessary.

#### 1910.147(c)(7)(iv)

The employer shall certify that employee training has been accomplished and is being kept up to date. The certification shall contain each employee's name and dates of training.

#### 1910.147(c)(8)

**Energy isolation.** Lockout or tagout shall be performed only by the authorized employees who are performing the servicing or maintenance.

### 1910.147(c)(9)

**Notification of employees.** Affected employees shall be notified by the employer or authorized employee of the application and removal of lockout devices or tagout devices.

Notification shall be given before the controls are applied, and after they are removed from the machine or equipment.

### ..1910.147(d)

### 1910.147(d)

**Application of control.** The established procedures for the application of energy control (the lockout or tagout procedures) shall cover the following elements and actions and shall be done in the following sequence:

### 1910.147(d)(1)

**Preparation for shutdown.** Before an authorized or affected employee turns off a machine or equipment, the authorized employee shall have knowledge of the type and magnitude of the energy, the hazards of the energy to be controlled, and the method or means to control the energy.

### 1910.147(d)(2)

Machine or equipment shutdown. The machine or equipment shall be turned off or shut down using the procedures established for the machine or equipment. An orderly shutdown must be utilized to avoid any additional or increased hazard(s) to employees as a result of the equipment stoppage.

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# OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

1910.147(d)(3)

**Machine or equipment isolation.** All energy isolating devices that are needed to control the energy to the machine or equipment shall be physically located and operated in such a manner as to isolate the machine or equipment from the energy source(s).

1910.147(d)(4)

Lockout or tagout device application.

1910.147(d)(4)(i)

Lockout or tagout devices shall be affixed to each energy isolating device by authorized employees.

..1910.147(d)(4)(ii)

1910.147(d)(4)(ii)

Lockout devices, where used, shall be affixed in a manner to that will hold the energy isolating devices in a "safe" or "off" position.

### 1910.147(d)(4)(iii)

Tagout devices, where used, shall be affixed in such a manner as will clearly indicate that the operation or movement of energy isolating devices from the "safe" or "off" position is prohibited.

### 1910.147(d)(4)(iii)(A)

Where tagout devices are used with energy isolating devices designed with the capability of being locked, the tag attachment shall be fastened at the same point at which the lock would have been attached.

#### 1910.147(d)(4)(iii)(B)

Where a tag cannot be affixed directly to the energy isolating device, the tag shall be located as close as safely possible to the device, in a position that will be immediately obvious to anyone attempting to operate the device.

1910.147(d)(5)

Stored energy.

1910.147(d)(5)(i)

Following the application of lockout or tagout devices to energy isolating devices, all potentially hazardous stored or residual energy shall be relieved, disconnected, restrained, and otherwise rendered safe.

..1910.147(d)(5)(ii)

1910.147(d)(5)(ii)

If there is a possibility of reaccumulation of stored energy to a hazardous level, verification of isolation shall be continued until the servicing or maintenance is completed, or until the possibility of such accumulation no longer exists.

1910.147(d)(6)

**Verification of isolation.** Prior to starting work on machines or equipment that have been locked out or tagged out, the authorized employee shall verify that isolation and de-energization of the machine or equipment have been accomplished.

Prime items appear in BOLD.

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### OSHA Standard 29CFR The Control of Hazardous Energy (Lockout/Tagout) 1910.147 (continued)

1910.147(e)

Release from lockout or tagout. Before lockout or tagout devices are removed and energy is restored to the machine or equipment, procedures shall be followed and actions taken by the authorized employee(s) to ensure the following:

1910.147(e)(1)

The machine or equipment. The work area shall be inspected to ensure that nonessential items have been removed and to ensure that machine or equipment components are operationally intact.

1910.147(e)(2)

#### Employees.

1910.147(e)(2)(i)

The work area shall be checked to ensure that all employees have been safely positioned or removed.

#### 1910.147(e)(2)(ii)

After lockout or tagout devices have been removed and before a machine or equipment is started, affected employees shall be notified that the lockout or tagout device(s) have been removed.

#### 1910.147(e)(3)

Lockout or tagout devices removal. Each lockout or tagout device shall be removed from each energy isolating device by the employee who applied the device. Exception to paragraph (e)(3): When the authorized employee who applied the lockout or tagout device is not available to remove it, that device may be removed under the direction of the employer, provided that specific procedures and training for such removal have been developed, documented and incorporated into the employer's energy control program. The employer shall demonstrate that the specific procedure provides equivalent safety to the removal of the device by the authorized employee who applied it. The specific procedure shall include at least the following elements:

#### 1910.147(e)(3)(i)

Verification by the employer that the authorized employee who applied the device is not at the facility:

#### 1910.147(e)(3)(ii)

Making all reasonable efforts to contact the authorized employee to inform him/her that his/her lockout or tagout device has been removed; and

#### 1910.147(e)(3)(iii)

Ensuring that the authorized employee has this knowledge before he/she resumes work at that facility.

#### ..1910.147(f)

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ndex

### PANDUIT®

1910.147(f)

#### Additional requirements.

1910.147(f)(1)

Testing or positioning of machines, equipment or components thereof. In situations in which lockout or tagout devices must be temporarily removed from the energy isolating device and the machine or equipment energized to test or position the machine, equipment or component thereof, the following sequence of actions shall be followed:

1910.147(f)(1)(i)

Clear the machine or equipment of tools and materials in accordance with paragraph (e)(1) of this section;

1910.147(f)(1)(ii)

Remove employees from the machine or equipment area in accordance with paragraph (e)(2) of this section;

1910.147(f)(1)(iii)

Remove the lockout or tagout devices as specified in paragraph (e)(3) of this section;

1910.147(f)(1)(iv)

Energize and proceed with testing or positioning;

1910.147(f)(1)(v)

Deenergize all systems and reapply energy control measures in accordance with paragraph (d) of this section to continue the servicing and/or maintenance.

1910.147(f)(2)

#### Outside personnel (contractors, etc.).

1910.147(f)(2)(i)

Whenever outside servicing personnel are to be engaged in activities covered by the scope and application of this standard, the on-site employer and the outside employer shall inform each other of their respective lockout or tagout procedures.

..1910.147(f)(2)(ii)

1910.147(f)(2)(ii)

The on-site employer shall ensure that his/her employees understand and comply with the restrictions and prohibitions of the outside employer's energy control program.

1910.147(f)(3)

#### Group lockout or tagout.

1910.147(f)(3)(i)

When servicing and/or maintenance is performed by a crew, craft, department or other group, they shall utilize a procedure which affords the employees a level of protection equivalent to that provided by the implementation of a personal lockout or tagout device.

1910.147(f)(3)(ii)

Group lockout or tagout devices shall be used in accordance with the procedures required by paragraph (c)(4) of this section including, but not necessarily limited to, the following specific requirements:

Lockout Device:



#### 1910.147(f)(3)(ii)(A)

Primary responsibility is vested in an authorized employee for a set number of employees working under the protection of a group lockout or tagout device (such as an operations lock);

#### 1910.147(f)(3)(ii)(B)

Provision for the authorized employee to ascertain the exposure status of individual group members with regard to the lockout or tagout of the machine or equipment and

#### 1910.147(f)(3)(ii)(C)

When more than one crew, craft, department, etc. is involved, assignment of overall job-associated lockout or tagout control responsibility to an authorized employee designated to coordinate affected work forces and ensure continuity of protection; and

#### ..1910.147(f)(3)(ii)(D)

#### 1910.147(f)(3)(ii)(D)

Each authorized employee shall affix a personal lockout or tagout device to the group lockout device, group lockbox, or comparable mechanism when he or she begins work, and shall remove those devices when he or she stops working on the machine or equipment being serviced or maintained.

#### 1910.147(f)(4)

Shift or personnel changes. Specific procedures shall be utilized during shift or personnel changes to ensure the continuity of lockout or tagout protection, including provision for the orderly transfer of lockout or tagout device protection between off-going and oncoming employees, to minimize exposure to hazards from the unexpected energization or start-up of the machine or equipment, or the release of stored energy.

Note: The following appendix to §1910.147 services as a non-mandatory guideline to assist employers and employees in complying with the requirements of this section, as well as to provide other helpful information. Nothing in the appendix adds to or detracts from any of the requirements of this section.

#### OSHA 1910.333

Safety-related work practices shall be employed to prevent electric shock or other injuries resulting from either direct or indirect electrical contacts, when work is performed near or on equipment or circuits which are or may be energized.



#### National Electric Code - Article 110.16



#### 110.16 Arc-Flash Hazard Warning.

Electrical equipment, such as switchboards, panel boards, industrial motor control panels, meter socket enclosures, and motor control centers, that are in other than dwelling occupancies, and are likely to require examination, adjustment, servicing, or maintenance while energized shall be filed marked to warn qualified persons of potential electric arc flash hazards. The markings shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment.

## NFPA 70E 130.5 (C) – Equipment Labeling (for Arc Flash)

**Equipment Labeling.** Electrical equipment, such as switchboards, panel boards, industrial motor control panels, meter socket enclosures, and motor control centers, that are in other than dwelling occupancies, and are likely to require examination, adjustment, servicing, or maintenance while energized shall be field marked with a label containing all the following information:

- 1. At least one of the following:
  - a. Available incident energy and corresponding working distance
  - b. Minimum arc rating of clothing
  - c. Required level of PPE
  - d. Highest hazard/risk category (HRC) for the equipment
- 2. Nominal system voltage
- 3. Arc flash boundary

Exception: Labels applied prior to September 30, 2011, are acceptable if they contain the available incident energy or required level of PPE. The method of calculating and data to support the information for the label shall be documented.

# NFPA 70E 130.7 (E) (1) – Safety Signs and Tags

Safety signs, safety symbols, or accident prevention tags shall be used where necessary to warn employees about electrical hazards that might endanger them.

#### **UL 508A – Industrial Control Panels**

UL 508aSB5 - Markings

SB5.2 - Cautionary Markings

SB5.2.1 An industrial control panel with a short circuit current rating based on the high fault short circuit current ratings of one or more components as specified in SB4.2.3 shall be marked with the word "WARNING" and the following statement:

Risk of Fire or Electric Shock – The opening of the branch-circuit protective device may be an indication that a fault current has been interrupted. All current-carrying parts and other components protected by this device should be examined and replaced if damaged. If burnout of a current element of an overload relay occurs, the complete overload relay must be replaced.

#### **ASME A13.1 – 2007**

"The Scheme for the Identification of Pipe Systems" ASME A13.1 is the recognized standard for the identification of piping systems.

This standard is designed to standardize the identification of all materials conveyed through piping systems in order to make a facility safer and a more efficient place in which to work. All Panduit Pipe Marking Systems comply with ASME A13.1.

ASME recommends the size of legend letters, color combinations and marker placement.

#### **Notes**

### **Part Number Index**

Part Nun	nber i	naex				ĸ
Part	Page	Part	Page	Part	Page	
Number	No.	Number	No.	Number	No.	_
С		LS8EQ		PCV-110AY		Lockout Devices
C200X400A51		LS8EQ-KIT	F1	PCV-110BY		Ĕ
C200X400YZ1.		М		PCV-110CY		De
C400X400A11		MT172W38-C	07	PCV-115AY		<u>Ş</u> .
C400X400A21				PCV-115BY		S
C400X400A31		MTB1D-Q		PCV-115CY		
C400X400A51		Р		PCV-120/208A		
C400X400YZ1.		PARW125-RED	D47	PCV-120/208E		
C400X600A41 C400X600A51		PARW125-YEL		PCV-120/2080		
C400X600A51		PCL037-0		PCV-120AY		Padlocks, Hasp & Accessories
C400X600AX1.		PCL037-0-9		PCV-120BY PCV-120CY		6 8
C400X600AY1		PCL037-1 -	-	PCV-120C1		s, H
C400X600AT1		PCL037-9	E9	PCV-12470AY		rie las
C400X600Y81		PCL037-A -		PCV-12470A1		25
C400X600YX1.		PCL037-Z		PCV-12470B1		
C400X600YZ1.		PCL037-A-Z		PCV-13200AY		
2.30,000.21.		PCL062-0		PCV-13200A1		
Н		PCL062-0-9	E9	PCV-13200B1		
HT2-BLU	E1	PCL062-1 -		PCV-13800BY		~ ສ
HT2-GRN	E1	PCL062-9	E9	PCV-13800CY		Fags, & L;
HT2-ORN	E1	PCL062-A -	Ε0	PCV-1PHAY		abe, Sic
HT2-RED	E1	PCL062-Z		PCV-1PHBY		ıgs, Signs & Labels
HT2S-BLK-YEL		PCL062-A-Z PCL062-DSH .		PCV-1PHCY		
HT2S-RED-WH	TE1	PCL100-0		PCV-208AY		
HT2-WHT		PCL100-0-9		PCV-208BY		
HT2-YEL		PCL100-0-9		PCV-208CY		
HT3S-BLK-YEL		PCL100-9	E9	PCV-220AY		
HT3S-RED-WH		PCL100-A -		PCV-220BY		ᇲᆋ
HTB3-C-M		PCL100-Z	E9	PCV-220CY	D42	Z, Š
HTB3-DNE-M		PCL100-A-J	E10	PCV-2300AY.	D42	Tapes, Letters & Numbers
HTB3-HV-M		PCL100-DSH.	E10	PCV-2300BY.	D42	tter ers
HTDU2B-W		PCL100-K-T		PCV-2300CY.		S
HTDU2B-W-F		PCL100-U-Z		PCV-230AY		
HTDU2O-FO		PCL200-0		PCV-230BY		
HTDU2O-T HTDU2R-E		PCL200-0-9	E10	PCV-230CY		
HTDU3B-W		PCL200-1 -	E40	PCV-2400AY.		쿗
HTDU3G-S		PCL200-9	E10	PCV-2400BY.		elat
HTDU30-FO		PCL200-A – PCL200-Z	E10	PCV-2400CY.		Related Products
HTDU3O-FO-F.		PCL200-A-J		PCV-240AY	D42	준
HTDU3O-T		PCL200-DSH .		PCV-240BY		홑
HTDU3R-E		PCL200-E		PCV-240CY		8
HTDU3R-E-F		PCL200-F		PCV-24VDCB PCV-277/480		
HTDU60-FO		PCL200-K-T		PCV-277/480F PCV-277/480E		
HTDU6O-T		PCL200-U-Z		PCV-277/480C		-
HTDU6R-E		PCL300-0		PCV-277/460C		Regulatory Standards
HTU3G-T-M		PCL300-1 -		PCV-277AY PCV-277BY		ᇤ
HTU3O-FO-M		PCL300-9	E10	PCV-277CY		Ş
HTU3O-T-M		PCL300-A -		PCV-380AY		y S1
HTU3R-E-M		PCL300-Z		PCV-380BY		a
HTU3Y-EF		PCL300-DSH.	E10	PCV-380CY		dar
HTU3Y-E-M	E7	PCLCP037-0-9		PCV-3PHAY		&
HTU3Y-E-M-F		PCLCP037-A-Z		PCV-3FHAT		
HTU6O-FO		PCLCP062-0-9		PCV-3PHCY		
HTU6O-T	E7	PCLCP062-A-Z		PCV-415AY		
HTU6O-TV		PCLCP100-0-9		PCV-415BY		
HTU6R-E	E7	PCLCP100-A-Z		PCV-415D1		=
HTU6Y-E	E7	PCLCP200-0-9		PCV-4160AY .		Index
HTU6Y-G	E7	PCLCP200-A-Z		PCV-4160BY.		^
		PCLCP300-0-9		PCV-4160CY.		
L		PCLCP300-A-Z	∠E10			

Index

# PANDUIT®

Part	Page	Part	Page	Part	Page
Number	No.	Number	No.	Number	No.
PCV-440AY	D42	PESC-J-E	D48	PESW-AA-	11YD50
PCV-440BY	D42	PESC-J-EC	D48	PESW-B-1	1YD50
PCV-440CY		PESC-J-HT			YD50
PCV-460AY		PESC-J-PE			YD50
PCV-460BY		PESF-D-3			YD50
PCV-460CY		PESG-B-1			YD50
PCV-480AY		PESG-C-1 PESG-C-2			1YD50
PCV-480BY		PESG-C-4			YD50 YD50
PCV-480CY PCV-480RY		PESG-E-2			YD50
PCV-460AY		PESG-E-3			YD50
PCV-600BY		PESG-E-4			1YD50
PCV-600CY		PESH-D-2			YD50
PCVB-110Y		PESH-E-6			YD50
PCVB-220Y		PES-S1			YD50
PCVB-277/480Y		PESS-A-CE	D49		YD50
PCVB-277Y	D41	PESS-A-ES			1YD50
PCVB-4160Y		PESS-A-L1			YD50
PCVB-440Y		PESS-A-L2		PESW-E-6	YD50
PCVB-480Y		PESS-A-L3			YD50
PCV-BLANKAY .		PESS-A-LF	D49		YD50
PCV-BLANKBY.		PESS-A-N			D16
PCV-BLANKCY.		PESS-A-PE PESS-A-RC1			D16
PCV-ESAY	D42	PESS-A-RC1			D45
PCV-ESBY PCV-ESCY	D42	PESS-A-RC5			D44 D45
PCV-FAAY		PESS-A-RCE			D45
PCV-FABY		PESS-A-ROH			D45
PCV-FACY		PESS-A-SS			D45
PCV-FOAY		PESS-BCE	D49		D45
PCV-FOBY		PESS-B-ES	D49		D45
PCV-FOCAY		PESS-B-L1		PLD-30	D44
PCV-FOCBY		PESS-B-L2			D44
PCV-FOCCY		PESS-B-L3			D44
PCV-FOCY		PESS-B-N			D44
PCV-FOMY		PESS-B-SS			D45
PCV-FORY		PESS-C-CE . PESS-C-ES			D44
PCV-MAINAY		PESS-C-L1			D44
PCV-MAINBY PCV-MAINCY		PESS-C-L2			D44 D44
PCV-WAINCT		PESS-C-L3			D44
PCV-TELEAT		PESS-C-N			D44
PCV-TELECY		PESS-C-SS			D44
PCWL-ACC		PESS-D-CE.			D44
PCWL-BL		PESS-D-ES	D49	PLD-60	D45
PCWL-CAL		PESS-D-L1	D49	PLD-62	D45
PCWL-CALD	D48	PESS-D-L2			D45
PCWL-ICAL		PESS-D-L3			D45
PCWL-REJ		PESS-D-N			D44
PEIP-A-12Y		PESS-D-SS			D44
PEIP-A-13Y		PESS-E-CE			D45
PEIP-A-14Y		PESS-E-ES			D45
PEIP-A-15Y		PESS-E-L1 PESS-E-L2			D44
PEIP-D-12Y	D46	PESS-E-L3			D44 D45
PEIP-D-13Y PEIP-D-14Y	D46	PESV-C-3			D45
PEIP-D-15Y	D46	PESV-D-3			D43
PESC-H-AT		PESV-E-3			D44
PESC-H-E		PESW-A-11Y			D44
PESC-H-EC		PESW-A-1Y.			D38
PESC-H-HT		PESW-A-6Y.			D38
PESC-H-PE	D48	PESW-A-8Y.			D38
PESC-J-AT	D48	PESW-A-9Y.	D50	PMSCLP	D38

						oducts
Part	Page	Part	Page	Part	Page	
Number	No.	Number	No.	Number	No.	
PPS0202B493 PPS0204W2100 PPS0204W2100	D30 -FD30	PPS0710DV002 PPS0710DV003 PPS0710DV004	D22 D22	PRL150YB-A PRL150YB-D PRL150YB-D PRL250YB-0	ZE11 SHE11	Locko
PPS0305C174 PPS0305D70 PPS0305D72	D19 D19	PPS0710DV005 PPS0710DV006 PPS0710DV007	D22 D22	PRL250YB-9 PRL250YB-A PRL250YB-2	9E11 –	Lockout Devices
PPS0305D73 PPS0305D75 PPS0305D70	D20 D19	PPS0710DV008 PPS0710DV009 PPS0710DV0010	D22 0D22	PRL250YB-DS PROG-CCCD PROG-EM2G	SHE11 F4	
PPS0305D72 PPS0305D73 PPS0305D75 PPS0305D76 PPS0305D79 PPS0305N107 PPS0305N108 PPS0305W2100	D20 D20 D20 D27 D27	PPS0710DV001: PPS0710DV001: PPS0710DV001: PPS0710DV001: PPS0710DV001: PPS0710DV001: PPS0710DV001:	2D22 3D22 4D22 5D22 6D22 7D22	PROG-EMCD PRS0310F319 PRS0710B25 PRS0710B36 PRS0710B430 PRS0710BWH PRS0710BYE	3D35,F3 9D28 1D27 4D20 0D28 HTD38 LD38	Padlocks, Hasps & Accessories
PPS0305W220C PPS0503C181SI PPS0503C95 PPS0507W2100 PPS0507W2100 PPS0507W220C PPS0514B265 PPS0514B313 PPS0710B114	ED21 D19 D30 -FD30 )D21 D27 D21 D28	PPS0710DV0019 PPS0710G001 PPS0710G020 PPS0710N105 PPS0710N191 PPS0710N203 PPS0710N443 PPS1007D72SE PPS1014BWHT PPS1014BYEL	D29 D29 D25 D24 D20 D38 D21 D38	PRS0710C44: PRS0710C97 PRS0710C97 PRS0710C98 PRS0710D68 PRS0710D70 PRS0710N10 PRS0710N10	D24 D27 D27 D38 D20 D19 D5 D25 D27	Tags, Signs & Labels
PPS0710B364 PPS0710B380 PPS0710B430 PPS0710BWHT PPS0710C141 PPS0710C142 PPS0710C143 PPS0710C143 PPS0710C442	D28 D28 D38 D19 D19	PPS1014C141 PPS1014C442 PPS1014D28 PPS1014D40 PPS1014D70 PPS1014D71 PPS1014D72 PPS1014D73	D38 D21 D38 D19 D19 D19	PRS0710N44: PRS0710W10 PRS0710W67 PRS0910D45: PRS1007C95 PRS1014B10! PRS1014B11: PRS1014B11:	14D25 7D23 3D21 D19 9D28 0D28 1D28 2D28	Tapes, Letters & Numbers
PPS0710C90 PPS0710C91 PPS0710C92 PPS0710C94 PPS0710C99 PPS0710C99 PPS0710D101 PPS0710D104 PPS0710D116 PPS0710D1121	D27 D27 D25 D27 D27 D23 D25 D26	PPS1014D74 PPS1014D75 PPS1014D76 PPS1014D80 PPS1014D81 PPS1014DV018 PPS1014DV018 PPS1014G002 PPS1014N203 PPS1014N443	D20 D20 D23 D19 D22 D22 D29 D20	PRS1014B11: PRS1014B16- PRS1014B96- PRS1014BWF- PRS1014C13- PRS1014C14- PRS1014C44- PRS1014C85- PRS1014C88-	4D28 4D20 HTD38 ILD38 5D27 2D19 2D38 D25	Related Products
PPS0710D124 PPS0710D125 PPS0710D129 PPS0710D24 PPS0710D28 PPS0710D440 PPS0710D66 PPS0710D69	D23 D25 D23 D23 D21 D38 D19 D26	PPS1209G010 PPS1209G011 PPS1209G012 PPS1420BWHT PPS1420BYEL PPS1420C442 PPS1420D440 PPS1420N443 PRL100BY-0 -	D29 D29 D38 D38 D38 D38	PRS1014C90 PRS1014C91 PRS1014C92 PRS1014C99 PRS1014D10 PRS1014D111 PRS1014D111 PRS1014D111	D27D27D25D27 4D25 5D26 6D26	Regulatory Standards
PPS0710D70 PPS0710D73 PPS0710D75 PPS0710D75 PPS0710D76 PPS0710D77 PPS0710D79 PPS0710DV001	D19 D20 D20 D20 D23 D19	PRL100BY-0 – PRL100BY-18KI PRL100BY-36KI PRL100BY-A – PRL100BY-Z PRL100BY-BLNH PRL100BY-DSH PRL150YB-0 – PRL150YB-9	ΓΕ11 ΓΕ11 Ε11 ΚΕ11 Ε11	PRS1014D11: PRS1014D12: PRS1014D12: PRS1014D12: PRS1014D12: PRS1014D12: PRS1014D12: PRS1014D13: PRS1014D13:	8D20 0D26 1D24 3D24 6D24 7D24 8D24 0D23	Index

Part	Page	Part	Page	Part Pa	ıge
Number	No.	Number	No.	Number 1	No.
PRS1014D132	D23	PSL-8BL	C1	PSL-PL1YELY	.C6
PRS1014D440	D38	PSL-8BR	C1	PSL-SC	
PRS1014D67		PSL-8BU		PSL-STATION.B12-E	
PRS1014D69		PSL-8GR		PSL-STEPS	
PRS1014D70		PSL-8-LABEL		PSL-TG1	
PRS1014D71		PSL-8OR		PSL-V13	
PRS1014D72 PRS1014D73		PSL-8PU PSL-8YL		PSL-V2A PSL-V4	
PRS1014D78		PSL-9		PSL-V6A	
PRS1014D79		PSL-9-LS		PSL-V9	
PRS1014D82		PSL-BFV		PSL-WS	
PRS1014D85	D25	PSL-BV1	B7	PSL-WS1A	
PRS1014D86	D27	PSL-BV2		PSSB-13	
PRS1014D87		PSL-BV3		PST-1	
PRS1014D89		PSL-BX		PST-12	
PRS1014N443		PSL-CB		PST-2	
PRS1209B317		PSL-CB-3PC		PST-3	
PRS1410N106 PRS1420BWHT.		PSL-CBIL PSL-CBILNT		PST-5	
PRS1420BYEL		PSL-CBKIT		PST-FO	
PRS1420C442		PSL-CBL		PST-FOBLNK	
PRS1420D440		PSL-CBNT		PT2S-ARW	
PRS1420D75		PSL-CBWL		PT2S-BLK	.E3
PRS1420N443	D38	PSL-CL110		PT2S-RED	
PSL-1		PSL-CL480		PT-BGND	
PSL-1.5		PSL-CS		PT-GND	
PSL-1.5A		PSL-ERB		PT-TGND	
PSL-10SA PSL-10SWCA		PSL-GLBN PSL-GLBNSS		PVL100BY-0-Y PVL100BY-1-Y –	.⊏8
PSL-1A		PSL-HD1		PVL100B1-1-1 — PVL100BY-9-Y	.E8
PSL-20SA		PSL-HD2.4		PVL100BY-A-Y -	
PSL-20SWCA		PSL-HD3		PVL100BY-Z-Y	
PSL-4SA	B13	PSL-KT		PVL100BY-DSH-Y	
PSL-4SWCA		PSL-KT-CON		PVL200BY-0-Y PVL200BY-1-Y –	.E8
PSL-6		PSL-KT-MRO		PVL200BY-1-Y — PVL200BY-9-Y	F8
PSL-6BL		PSL-KT-PWR		PVL200BY-A-Y -	0
PSL-6BL-LS PSL-6BU		PSL-LOTO-TI PSL-MCB		PVL200BY-Z-Y	.E8
PSL-6BU-LS		PSL-MCBNT		PVL200BY-DSH-Y	
PSL-6GR		PSL-MLD		PVS0109D72Y	
PSL-6GR-LS		PSL-MLDC		PVS0204C171Y[	)18
PSL-6-LS	C3	PSL-MLDC20		PVS0204C176Y[	
PSL-6WH		PSL-MLDC20		PVS0204C177Y[ PVS0204C178Y[	
PSL-6WH-LS		PSL-MLD-CR		PVS0204C179Y[	
PSL-6YL		PSL-MLDCT.		PVS0204D100Y	
PSL-6YL-LS PSL-7		PSL-MLDH-X PSL-MLDT		PVS0204D2101Y[	
PSL-7BL		PSL-MLD1		PVS0204D72Y	)19
PSL-7BL-LS		PSL-NC3		PVS0204W172Y[	
PSL-7BR		PSL-P		PVS0204W2103Y	
PSL-7BR-LS		PSL-PC		PVS0209D445Y[	
PSL-7BU		PSL-PE1	C7	PVS0305C174Y[ PVS0305D2101Y[	
PSL-7BU-LS		PSL-PE2		PVS0305D21011L	
PSL-7GR		PSL-PEL		PVS0305W2102Y-S. [	
PSL-7GR-LS		PSL-PI		PVS0305W21021 0.1	
PSL-7-LS PSL-7OR		PSL-PK PSL-PK-EA		PVS0305W2201Y[	
PSL-70R PSL-70R-LS		PSL-PK-EA PSL-PL1BLK		PVS0503N458Y[	018
PSL-7PU		PSL-PL1BLU		PVS0505C174Y	
PSL-7PU-LS		PSL-PL1GRN		PVS0507D2101Y[	
PSL-7YL		PSL-PL1RED		PVS0507W2103Y[	
PSL-7YL-LS	C2	PSL-PL1RED	Y-DC6	PVS0507W2104Y-0 .I PVS0507W2104Y-1 .I	
PSL-8	C1	PSL-PL1WH1	YC6	1 V 30307 VVZ 1041-1 .L	J32

						Product
Part	Page	Part	Page	Part	Page	ᅜ
Number	No.	Number	No.	Number	No.	
PVS0507W21	04Y-2 .D32	S		TDP43ME	D35. F2	
PVS0507W21		SEZ-1CLL	D37			6
PVS0507W21		SEZ-1DLL		V	V	훉
PVS0507W21	06Y-0 .D32	SEZ-1NLL	D37	WL1	D51	Ĕ
PVS0507W21	06Y-1 .D32	SEZ-1WHLL	D37	WL3		Lockout Devices
PVS0507W21		SEZ-1WLL		WL32Y		ē.
PVS0507W21		SEZ-1YLL		WL33Y		σ.
PVS0507W21		SEZ-RSC1		WL35Y		
PVS0507W22		SEZ-RSC2		WL36Y	D51	
PVS0509B36		SEZ-RSC3				
PVS0705D21 PVS0705W21		SEZ-RSC4 SEZ-SNC1				∞ Pa
PVS0710B36		SEZ-SNC1				<u> </u>
PVS0710D30		SEZ-SNC3				Padlocks, Hasp & Accessories
PVS0710C18		SEZ-SNC4				응. 풉
PVS0710D72		SEZ-TAGOR				S - S
PVT-110		SEZ-TAGWH.				
PVT-111		SEZ-TAGY				
PVT-112	D14					
PVT-113-Q		T				
PVT-118-Q		T100X000RP				~ ₹
PVT-148-Q		T100X000RU				Sec.
PVT-15		T100X000RX				be Sic
PVT-150-F		T100X000VP1 T100X000VQ				ᄶ
PVT-150-Q		T100X000VQ				
PVT-153-Q		T100X000V3				
PVT-155-Q PVT-156-Q		T100X000VW				
PVT-157-Q		T100X000VX1				
PVT-158-Q		T100X000VY1				_
PVT-160-Q		T200X000RP				Tapes, Letters & Numbers
PVT-161-Q		T200X000RU				<u>i</u> .
PVT-165-Q		T200X000RX				ett ıbe
PVT-179-Q		T200X000VP1				S. E.S.
PVT-199-Q	D15	T200X000VQ				
PVT-200-Q		T200X000VS1				
PVT-23		T200X000VU				
PVT-238-Q		T200X000VV1				
PVT-23-Q		T200X000VW T200X000VX1				죭
PVT-30		T200X000VX				ř
PVT-30-Q PVT-41		T200X000V1				₽
PVT-41-F		T200X0001Z1				<u>6</u>
PVT-42-Q		T225X000YK1				Related Products
PVT-43		T400X000RP				٠.
PVT-44		T400X000A91	D34			
PVT-44-Q		T400X000RP	1E4			_
PVT-56-Q		T400X000RQ				Reg .
PVT-57-Q	D4	T400X000RU				ᇤ
PVT-62-Q		T400X000RW				ġ
PVT-94-Q		T400X000RX				y St
PVT-95-Q		T400X000VP1 T400X000VQ				and
PVT-96		T400X000VQ				Regulatory Standards
PVT-96-Q PVT-97		T400X000VS				~
PVT-97		T400X000VV				
PVT-97S-Q		T400X000VW				
PVT-98		T400X000VX1				
PVT-98-F		T400X000VY				
PVT-98-Q		T400X000Y2T				Index
PVT-99		T400X000YK1				×
PVT-9-Q		T400X000YX1	ID34			

T400X000YK1 .......E2 T400X000YX1 .......D34 T425X000YK1 .......E2

PVT-9-Q ......D1

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