

# FALL PROTECTION FOR TOOLS<sup>®</sup>

## POCKET REFERENCE GUIDE



REFERENCE GUIDE



DOWNLOAD THE FULL LINE CATALOG:

[CAPITALSAFETY.COM](http://CAPITALSAFETY.COM)





DBI-SALA® and Python Safety®, two highly respected brands in the fall protection industry, have come together to bring a new level of innovation to safety.

DBI-SALA is known as the premier brand of fall protection and rescue equipment around the world. For more than 40 years DBI-SALA has provided the best solutions for workers at height, no matter which industry you work in.

Python Safety has more than a decade of experience developing products to prevent dropped tools and equipment. Its innovative line of products makes work environments safer and more productive by protecting workers from hazards that can result in personal injury, equipment damage, and tool loss.

With a relentless commitment to innovation, and a tireless determination to respond to the needs of our customers and deliver the best products and services in the industry, we employ the best teams to create innovative solutions to keep workers at height safe around the world.

## THIRD PARTY TESTED

---

Our drop prevention products are third-party tested with Applied Technical Services (ATS), an Atlanta-based consulting engineering firm with sophisticated testing and inspection capabilities. ATS is ISO 9001 Certified, and an accredited testing lab of the Nuclear Regulatory Commission. As a part of our product development and quality assurance processes, ATS conducts static or dynamic load tests to determine the safe working load limits based on the solution's intended use.



## NOTICE

- All procedures shown in this document are for Python Safety products only.
- All attachment points should be connected to a Python Safety extension or tool lanyard.
- Ensure operators are assessed for competency in using all equipment and tools.
- Be careful working around rotating and moving equipment.
- Ensure operators have read and understood product information and warning labels for all tool lanyards and attachment points
- Ensure all equipment and tools are regularly maintained and checked before each use for defects and deterioration.
- Ensure damaged, worn, or defective equipment, tools, tool lanyards, and attachment points are immediately removed from service.
- Never modify a tool from the manufacturer's specification.

## INSPECT BEFORE USE

Visual inspection is vital to safely using safety solutions. Inspect the entire surface of the product by starting on one side and working your way to the opposite, carefully rotating the product as you visually inspect for damage or wear that might affect the usefulness and dependability of the tool lanyard, attachment point or the tool.

## AFTER USE

After use, clean the equipment of dirt, corrosives, or contaminants and store in a clean and dry environment, free from fumes or corrosive elements. Taking care of your safety equipment will ensure it works effectively and will extend its service life.

## CLEANING NYLON & POLYESTER

- Clean off the surface dirt with a water-dampened wipe.
- Dip the wipe in a mild solution of water, soap, or detergent; work it up into a thick lather; and clean the item.
- Wipe with a clean cloth and hang to dry away from excessive heat, steam, or sunlight.

## IN CASE OF A DROPPED TOOL

- If a tool is dropped and/or load is forced onto the connection point and/or the Python Safety tool lanyard, remove affected parts from service and replace immediately.
- Any impacted tool or tool lanyard should be immediately taken out of service.
- All incidents should be reported to your safety coordinator.

## TABLE OF CONTENTS

---

D-Rings and Quick Wrap Tape.....	6
Tool Cinch .....	10
Heat Shrink.....	14
Quick Spins.....	18
D-ring Cord.....	22
Quick Rings .....	26
Tool Lanyards and Tethers.....	30
Wristbands .....	32
Tool Belts.....	33
Tool Holsters .....	34
Tool Pouches.....	35
Safe Buckets .....	36

# D-RINGS



1500001



1500003



1500005



1500007

## D-RINGS

PART #	DIMENSIONS	LOAD RATING
1500001	0.5" X 2.25" (12.70mm X 57.15mm)	2 lb. (0.9kg)
1500003	0.5" X 2.25" (12.70mm X 57.15mm)	2 lb. (0.9kg)
1500005*	0.5" X 2.25" (12.70mm X 57.15mm)	2 lb. (0.9kg)
1500007	1" X 3.5" (25.40mm X 88.90mm)	5 lb. (2.3kg)

\* Non-Conductive



1500044



1500035



1500038

## QUICK WRAP TAPE

PART #	LENGTH
1500044	108" (274cm)
1500035	108" (274cm)
1500038	216" (548.6cm)

### ✓ WHEN TO USE D-RINGS AND QUICK WRAP TAPE

- For tools weighing up to 5 lb. (2.3kg) or 2 lb. (0.9kg) depending on the D-ring
- When a **non-conductive** attachment point is needed for tools up to 2 lb. (0.9kg)
- When Quick Rings, Quick Spins, and D-ring Cord Attachments won't work. Many tools do not have pre-drilled holes for Quick Rings, and lack handles that a Quick Spin will fit

### ✗ WHEN NOT TO USE D-RINGS AND QUICK WRAP TAPE

- When a tool is over 5 lb. (2.3kg) or 2 lb. (0.9kg) depending on the D-ring
- When a D-ring will interfere with the safe working condition of the tool



## QUICK WRAP TAPE & D-RING EXAMPLES



# QUICK WRAP TAPE & D-RINGS



Figure 1



Figure 2

Figure 3



Figure 4



Figure 5





## USAGE INSTRUCTIONS

---

**STEP 1** Cut a strip of Quick Wrap Tape approximately 12 to 24 inches (30.5cm to 61.0cm) long depending on the size of the handle. Peel plastic coating away from wrap. Tape should wrap 10-12 times around the tool.

NOTE: Never use the D-ring with Quick Wrap on the tapered portion of a tool.

**STEP 2** Make sure the tool is free of debris which would interfere with the bonding of the Quick Wrap. Place a D-ring attachment so that the ring of the D-ring is facing away from the center of gravity of the tool. Ensure that when installed, the D-ring will not interfere with the safe working condition of the tool (figure 1). When placing the D-ring, ensure that the tab of the D-ring is facing up as shown here (figure 2).

**STEP 3** Wrap the tape around the tool while stretching the tape. It is critical to stretch the tape while wrapping, as this activates the tape and causes it to self-vulcanize creating a secure connection (figure 3).

**STEP 4** Once the connection is complete, test the connection to ensure proper installation has taken place (figure 5).

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection. Apply approximately 5 lb. (2.3kg) of force when inspecting.

# TOOL CINCH ATTACHMENTS



1500011



1500013



1500015



1500017

## TOOL CINCH ATTACHMENTS

PART #	LOAD RATING
1500011	35 lb. (15.9kg)
1500013	35 lb. (15.9kg)
1500015	35 lb. (15.9kg)
1500017	80 lb. (36.3kg)

### ✓ WHEN TO USE A TOOL CINCH

- Tools weighing up to 35 lb. (15.9kg) and 80 lb. (36.3kg) unless otherwise stated
- On difficult to tether tools such as pinch bars, torque wrenches, clamps, and many closed handled tools

### ✗ WHEN NOT TO USE TOOL CINCH

- Do not use a Tool Cinch on tools that exceed the Tool Cinches load rating
- When a Tool Cinch will interfere with the safe working condition of the tool

TOOL CINCH EXAMPLES



Figure 1



Figure 2



Figure 3

## USAGE INSTRUCTIONS

---

**STEP 1** Select a Tool Cinch Attachment that is appropriate for your tool. For closed handled tools without triggers, part 1500011 should be used. For example, see the magbase drill (figure 1) on page 11.

For tools without closed handles, or tools with triggers, part 1500013 should be used instead. For example, see the reciprocating saw (figure 2) on page 11.

For tools where there is at least 5.5" (14cm) of available space for stabilizer wings to be taped down, part 1500015 should be used. This Tool Cinch should be ideal for tools with long cylindrical handles. For example, see the slugging wrench (figure 3) on page 11.

**STEP 2** Pass the ring end of the cinch through the loop end, and cinch around your tool (figure 1).

**STEP 3** If using a Tool Cinch with wings, use Quick Wrap Tape to hold the Tool Cinch in place. If using part 1500011, continue to step 4.

Cut a strip of Quick Wrap approximately 12 to 24 inches (30.5 to 61cm) long depending on the size of the handle. Peel plastic coating away from wrap. Tape should wrap at least 5 times around the tool.

Make sure the tool is free of debris which would interfere with the bonding of the Quick Wrap. Wrap the tape around the tool while stretching the tape. It is critical to stretch the tape while wrapping, as this activates the tape and causes it to self-vulcanize creating a secure connection (figure 2).

**STEP 4** Once the connection is complete, test the connection to ensure proper installation has taken place.

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection.



Figure 1



Figure 2



## HEAT SHRINK

PART #	DIMENSIONS
1500019	0.75" X 1.75" (1.9cm X 4.5cm)
1500020	1" X 1.75" (2.5cm X 4.5cm)
1500021	1.5" X 2" (3.8cm X 7.6cm)
1500022	2" x 4" (5.1cm x 10.2cm)
1500023	3" x 4" (7.6cm x 10.2cm)

### ✓ WHEN TO USE HEAT SHRINK

- Used on top of Quick Wrap Tape (Pg. 6) to create a more abrasion resistant attachment point

### ✗ WHEN NOT TO USE HEAT SHRINK

- In temperatures exceeding 130 degrees fahrenheit (54.4 celsius)
- Never use Heat Shrink without first applying Quick Wrap Tape. Heat Shrink is not a replacement for Quick Wrap Tape, it only is used to protect the tape



HEAT SHRINK EXAMPLES



# HEAT SHRINK

Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



## USAGE INSTRUCTIONS

---

**STEP 1** Make sure the tool is clean and free of debris. If there is a detachable handle, ensure the handle is secure. If the handle is loose, detach before applying Heat Shrink.

**STEP 2** Attach a D-ring using Quick Wrap Tape to the tool, as shown on page 16 (figure 1).

**STEP 3** Slide Heat Shrink over the D-ring and Quick Wrap Tape. Ensure that the Heat Shrink covers as much of the D-ring as possible without covering the ring itself (figure 2). NEVER use Heat Shrink without first applying Quick Wrap Tape.

**STEP 4** Wearing heat resistant gloves, use a Heat Gun to evenly apply heat to the Heat Shrink being careful not to burn the webbing of the D-ring or Heat Shrink itself. Allow the Heat Shrink to completely shrink around the tool and D-ring (figure 3). Do not apply any adhesives to Heat Shrink.

**STEP 5** Let cool approximately five minutes before using. Refrain from pulling or tugging on the connection until completely cooled (figure 4).

**STEP 6** Once the connection is complete, test the connection to ensure proper installation has taken place (figure 5).

NOTE: Remember to always inspect the connection prior to each use for damage or irregularities that might affect the connection. Apply approximately 5 lb. (2.3kg) of force when inspecting.

# QUICK SPINS



## QUICK SPINS

PART #	DIAMETER	LOAD RATING
1500027	0.6" (1.5cm)	1 lb. (0.5kg)
1500028	0.8" (2cm)	1 lb. (0.5kg)
1500029	1" (2.5cm)	1 lb. (0.5kg)
1500030	1.2" (3.1cm)	1 lb. (0.5kg)
1500031	0.3" (0.8cm)	
1500032*	0.3" (0.8cm)	
1500033	0.5" (1.3cm)	
1500034*	0.5" (1.3cm)	

\* with coil tether

### ✓ WHEN TO USE QUICK SPINS

- On tools under 1 lb. (0.5kg) where the Quick Spin will fit tightly on a handle
- When a non-conductive attachment point is necessary

### ✗ WHEN NOT TO USE QUICK SPINS

- Tools over 1 lb. (0.5kg)
- Do not use a Quick Spin if a snug fit cannot be secured

## QUICK SPIN EXAMPLES



# QUICK SPINS

Figure 1



Figure 2



Figure 3





## USAGE INSTRUCTIONS

---

**STEP 1** Identify a Quick Spin Adaptor that will properly fit the handle of the tool (figure 1).

**STEP 2** Push and twist the Quick Spin onto the tool. Some force should be necessary to create a snug fit (figure 2).

**STEP 3** Ensure that the Quick Spin is firmly in place before use (figure 3).

**IMPORTANT: Inspect before use. Never connect to anything over 1 lb. (0.5kg).**

## D-RING CORD

PART #	LOAD RATING
--------	-------------

1500009	5 lb. (2.3kg)
---------	---------------



### ✓ WHEN TO USE A D-RING CORD ATTACHMENT

- For tools weighing up to 5 lb. (2.3 kg)
- For creating quick attachment points on a variety of tools
- On tools with closed handles, or with pre-drilled holes

### ✗ WHEN NOT TO A D-RING CORD ATTACHMENT

- For tools weighing over 5 lb. (2.3kg)
- When a non-conductive attachment point is needed, use a Quick Spin (Pg. 18), or Non-conductive D-ring (Pg. 6)
- When the attachment will interfere with the safe working condition of the tool

## D-RING CORD EXAMPLES



## USAGE INSTRUCTIONS (CLOSED HANDLED TOOLS)

---

**STEP 1** Ensure that cinching the D-ring Cord to the handle of your tool will not interfere with the safe working condition of the tool.

**STEP 2** Pass the cord end of the D-ring Cord through the handle of the tool.

**STEP 3** Pass the Ring side of the D-ring Cord through the loop of the Cord.

**STEP 4** Pull tightly to cinch and create a secure connection.

## USAGE INSTRUCTIONS (PRE-DRILLED HOLES)

---

**STEP 1** Ensure that cinching the D-ring Cord to the tool will not interfere with the safe working condition of the tool.

**STEP 2** Pass the cord end of the D-ring Cord through the pre-drilled hole in the tool.

**STEP 3** Pass the Ring side of the D-ring Cord through the loop of the Cord.

**STEP 4** Pull tightly to cinch and create a secure connection.

Closed Handed Tools



Pre-drilled Holes



# QUICK RINGS



1500024



1500025



1500026

## QUICK RINGS

PART #	DIAMETER	LOAD RATING
1500024	0.75" (1.9cm)	2 lb. (0.9kg)
1500025	1" (2.5cm)	2 lb. (0.9kg)
1500026	1.5" (3.8cm)	2 lb. (0.9kg)

### ✓ WHEN TO USE QUICK RINGS

- When there are pre-drilled holes in a tool, or when a quick ring can be fitted around a tool in such a way where it cannot slide off. Never modify a tool in a way that would void the manufacturers warranty
- When a tool weighs less than 2 lb. (0.9kg)

### ✗ WHEN NOT TO USE QUICK RINGS

- When a tool weighs over 2 lb. (0.9 kg)
- When there is no pre-drilled hole that a Quick Ring can be fitted through, or when a Quick Ring cannot be fitted onto a tool in such a way that the Quick Ring cannot slide off
- When a non-conductive attachment point is needed, use a Quick Spin (Pg. 18), or Non-conductive D-Ring (Pg. 6)



QUICK RING EXAMPLES



# QUICK RINGS

Figure 1



Figure 2



## USAGE INSTRUCTIONS

---

**STEP 1** Use split ring pliers to separate the Quick Ring so it can be threaded through an attachment point (figure 1).

**STEP 2** Begin threading the Quick Ring through the attachment point with the pliers. Continue to thread the tool through by hand if necessary (figure 2).

**STEP 3** After installation, check for damage of tool or Quick Ring. If either the tool or Quick Ring is damaged, replace that component.

**IMPORTANT: Inspect before use. Never connect to anything over 2 lb. (0.9 kg).**



1500047



1500049



## BUNGEE TETHERS

**PART #**

**LOAD RATING**

1500047

10 lb. (4.5kg)

1500049

35 lb. (15.9kg)



1500063



1500067



1500059



1500065



1500060



1500061

## COIL TETHERS

**PART #**

**LOAD RATING**

1500063

5 lb. (2.3kg)

1500067

5 lb. (2.3kg)

1500059

2 lb. (0.9kg)

1500065

2 lb. (0.9kg)

1500060

2 lb. (0.9kg)

1500061

2 lb. (0.9kg)



## RETRACTORS

PART #	LOAD RATING
1500069	1.5 lb. (0.7kg)



## TRIGGER TO TRIGGER LANYARDS

PART #	LOAD RATING	LENGTH
1500053	10 lb. (4.5kg)	12" (30.48cm)
1500055	10 lb. (4.5kg)	24" (60.96cm)
1500057	10 lb. (4.5kg)	36" (91.44cm)



1500050



1500051



1500052

## MEDIUM & HEAVY DUTY WEBBING TOOL LANYARDS

PART #	LOAD RATING	LENGTH
1500050	35 lb. (15.9kg)	72" (182.88cm)
1500051	80 lb. (36.3kg)	72" (182.88cm)
1500052	80 lb. (36.3kg)	72" (182.88cm)

# WRISTBANDS



Pullaway Wristband



Pullaway Wristband Slim

## PULLAWAY WRISTBANDS

PART #	SIZE	LOAD RATING	PROFILE
1500070	Small	5 lb. (2.3kg)	Standard
1500072	Medium	5 lb. (2.3kg)	Standard
1500074	Large	5 lb. (2.3kg)	Standard
1500076	Small	5 lb. (2.3kg)	Slim
1500078	Medium	5 lb. (2.3kg)	Slim
1500080	Large	5 lb. (2.3kg)	Slim



1500082



1500084



1500086

## ADJUSTABLE WRISTBANDS

PART #	LOAD RATING
1500082	5 lb. (2.3kg)
1500084	5 lb. (2.3kg)
1500084	1.5 lb. (.7kg)





## COMFORT TOOL BELTS

- Available in several sizes. See product catalog for more information



## UTILITY TOOL BELTS

- Available in several sizes. See product catalog for more information



1500115



1500117

1500115 is used for tying off tools from a belt, while the 1500117 is used for staging tools.

## BELT LOOPS

### PART #

### LOAD RATING

1500115

5 lb. (2.3kg)

1500117

5 lb. (2.3kg)

# BELT & HARNESS HOLSTERS



1500104



1500102



1500105



1500109



1500107

## SMART HOLSTERS

A wide selection of holsters are available that accommodate nearly any hand tool. To learn more about available holsters, please visit [capitalsafety.com](http://capitalsafety.com).

## TOOL HOLSTERS

PART #	PRODUCT NAME
1500103	Single Tool Harness Holster
1500104	Single Tool Harness Holster with Retractor
1500101	Single Tool Belt Holster
1500102	Single Tool Belt Holster with Retractor
1500105	Extra-Deep Single Tool Belt Holster
1500108	Dual Tool Harness Holster
1500109	Dual Tool Harness Holster with Retractors
1500106	Dual Tool Belt Holster
1500107	Dual Tool Belt Holster with Retractors
1500098	Tape Measure Retractor Holster
1500099	Tape Measure Sleeve
1500096	Scaffold Wrench Holster with Retractor
1500093	Hammer Holster
1500088	Adjustable Radio Holster
1500091	Spray Can / Bottle Holster



## SMALL PARTS POUCHES

PART #	PRODUCT NAME
1500122	Vinyl Yellow
1500119	Canvas Black
1500120	Canvas Camo (Tan / Black)
1500121	Canvas Orange
1500123	Extra Deep Canvas Black

- Innovative self-closure system that traps objects inside, the pouch makes it nearly impossible for objects to fall out once placed in the bag
- Easy to retrieve objects since no opening or closing is necessary



## INSPECTION POUCH

**1500131**

- Designed for the safe transport and use of most multimeters, air monitors, and other portable testing devices

## TOOL POUCHES



- Available in several sizes and variants. See product catalog for more information

# SAFE BUCKETS



1500134



1500140

## SAFE BUCKETS

PART #	LOAD RATING	CLOSURE SYSTEM
1500134	100 lb. (45.4 kg)	Hook and Loop
1500133	100 lb. (45.4 kg)	Drawstring
1500140	250 lb. (113.4 kg)	Hook and Loop
1500139	250 lb. (113.4kg)	Drawstring
1500135	100 lb. (45.4 kg)	Hook and Loop

## SCAFFOLD POLE BUCKETS

PART #	LOAD RATING	LENGTH
1500136	100 lb. (45.4 kg)	48" (121.9cm)
1500137	100 lb. (45.4 kg)	72" (182.9cm)
1500138	100 lb. (45.4 kg)	120" (304.8cm)



## FREE COMMON TOOL ATTACHMENT POINTS POSTER



## REQUEST A PRINTED POSTER

Contact your local Sales Representative or Capital Safety Customer Service Department today.

# IMPACT FORCE OF A DROPPED OBJECT

MEASURED IN POUNDS PER SQUARE INCH

Weight of Dropped Object (pounds)

	1	2	3	4	5	6	7	8	9	10
300	434	867	1,301	1,735	2,168	2,608	3,036	3,469	3,903	4,337
200	354	708	1,062	1,416	1,771	2,125	2,479	2,833	3,187	3,541
150	307	613	920	1,227	1,533	1,840	2,147	2,453	2,760	3,067
100	250	501	751	1,002	1,252	1,502	1,753	2,003	2,253	2,504
50	177	354	531	708	885	1,062	1,239	1,416	1,593	1,771
20	112	224	336	448	560	672	784	896	1,008	1,120
10	79	158	238	317	396	475	554	633	713	792
6	61	123	184	245	307	368	429	491	552	613

**SERIOUS**

**SEVERE**

**FATAL**

Drop Height (feet)



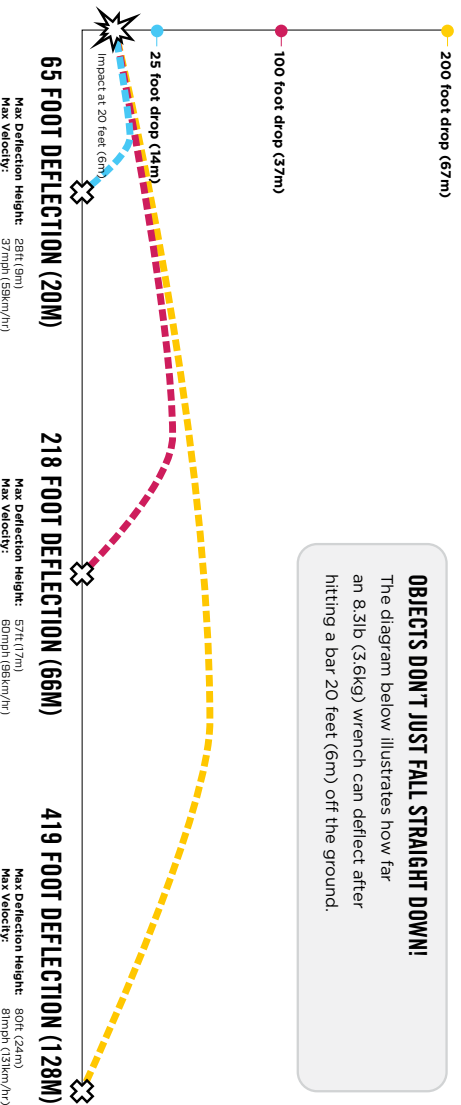
# FALLING OBJECT DEFLECTIONS

DROPPED OBJECTS DON'T ALWAYS FALL STRAIGHT DOWN

## FALLING OBJECT DEFLECTIONS

### OBJECTS DON'T JUST FALL STRAIGHT DOWN!

The diagram below illustrates how far an 8.3lb (3.6kg) wrench can deflect after hitting a bar 20 feet (6m) off the ground.



# GLOBAL LEADER IN FALL PROTECTION

No matter what your drop prevention needs are, Capital Safety is equipped to help you achieve your goals with its DBI-SALA Python Safety product line. We can provide you an entire drop prevention program or a sample plan to help you deploy a program that fits your needs.

For more information on ways Capital Safety can help, visit [capitalsafety.com](http://capitalsafety.com), call your sales representative or customer service to order a Full-line Catalog and Common Tool Attachment Points Poster.

Our highly dedicated and skilled team is ready to assist.

## Capital Safety

USA	800 328 6146
Canada	800 387 7484
Mexico	+52 (55) 5719 4820
Columbia	+57 (1) 601 4777
Brazil	800 942 2300
Asia	+65 65587758
Germany	+49 (0) 2 76 18 33 82 29
Australia/New Zealand	1800 245 002
Europe, Middle East, Africa	+33 (0)4 97 10 00 10
Northern Europe	+44 (0) 1527 548 000

[www.capitalsafety.com](http://www.capitalsafety.com)



Now part of

