

# SAFETY ENGINEER'S GUIDE TO TOOL TETHERING



Building quality tool and  
gear tethers since 1995

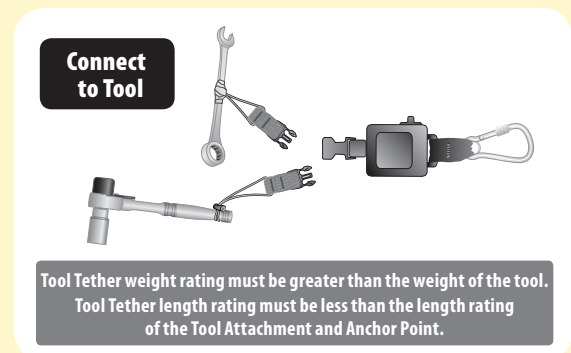
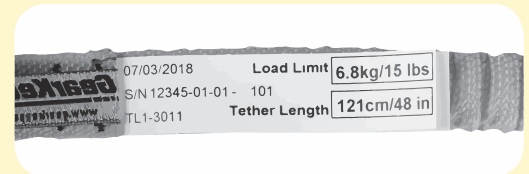
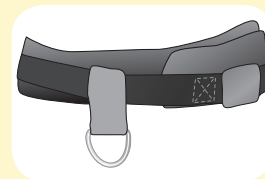


**Gear  
Keeper®**  
The Leader In Innovative Tethering Solutions

## What is ANSI/ISEA 121-2018?

### *A Safety Performance Certification for Dropped Tools Products*

- ▶ **Tethers** need to meet a 2x drop/2x length test from a solid anchor point under ambient/hot/cold temp and moisture.
- ▶ **Anchor points** need to meet a 1x load/2x length test with a non-shock absorbing lanyard.
- ▶ **Carabiners** need to be captive eye and locking gate, preventing roll-out, removal, & side loading of the gate.
- ▶ **Classified Products** need to contain proper labeling: tool weights/lengths, identification/tracking info, warnings.
- ▶ **Packaging** needs to contain instructions to insure the product is used and/or installed properly.



## Why using an ANSI/ISEA 121 product is so important?

*The product meets a testing performance standard that insures safety for both you and your coworkers!*



# Gear Keeper's 61% Stretch... Almost Twice As Much As Brand A And More Than 3 Times As Much As Brand B.

**Gear Keeper**



**Brand A**



**Brand B**



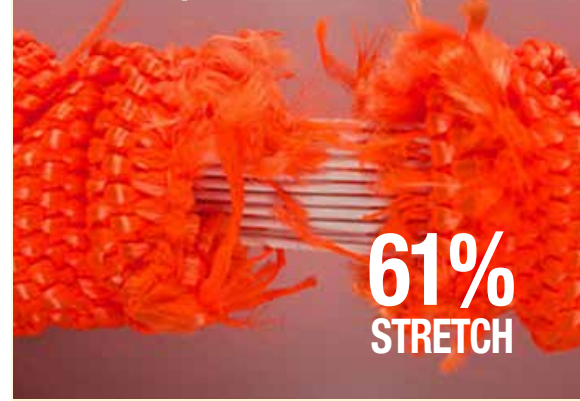
## Ergonomically Designed Gear Keeper Tether

\* Low resistance for less fatigue during use

\* Shortest retraction length minimizes entanglement issues for safely working in close quarters

\* More stretch for full range of use

**Gear Keeper** *Woven integrated elastic*



## Gear Keeper's Unique Integrated Elastic Core Is Woven Throughout The Entire Body Of The Webbing.

Gear Keeper tethers have the shortest retracted length and require the least effort to stretch to the longest extension. Weaving the elastic into the nylon webbing is more expensive but by making the elastic an integral, non-structural component, Gear Keeper tethers deliver longer life... maintaining both strength and stretch.



## Brands A & B – Both Use A Bungee Cord Inside Of Tubular Webbing.

It's less expensive but not ergonomically sound. Their bungee design, although cheaper to manufacture, does not come close to Gear Keeper's 61% extension stretch. Additionally, Brand B's tether construction is also non-ergonomically stiff without much elastic capability (evidenced by its short 7" extension).



# 6 Ways Gear Keeper Personal Tool Tethers Are Constructed To Last Longer

## 1 Gear Keeper Webbing

- More stretch for longer “strain-free” reach.
- Integrated elastic provides the shortest retraction length and long extension.

## 2 Gear Keeper Ergonomically Designed Safety Construction

- More stretch for best extension and greater range of use.
- Minimum resistance reduces extension fatigue.
- Woven integrated elastic for shortest retraction length, minimizes entanglement issues when climbing or working in close quarters.

## 3 Gear Keeper Shock-Absorbing Tethers

- Woven integrated elastic absorbs recoil shock—minimizing bounce back.
- Nylon webbing absorbs high-impact energy

## 4 The Gear Keeper Tether Cord Is Sewn Lengthwise Into The Webbing Without Damaging The Integrity Of The Cord Insuring Longer Durability And Strength.

- Brand A – Thick, heavy nylon cord is difficult to thread tool lanyard loops. Its coarse weave is more susceptible to fraying and very difficult to gauge wear.
- Brand B – Lanyard cord is an extension of the bungee elastic... thick, stiff and difficult to thread tool lanyard loops. Hard to gauge wear.
- Brands A & B lanyard cords are sewn crosswise creating potential failure points.

Brand A

Brand B



## 5 Gear Keeper Tether Cord

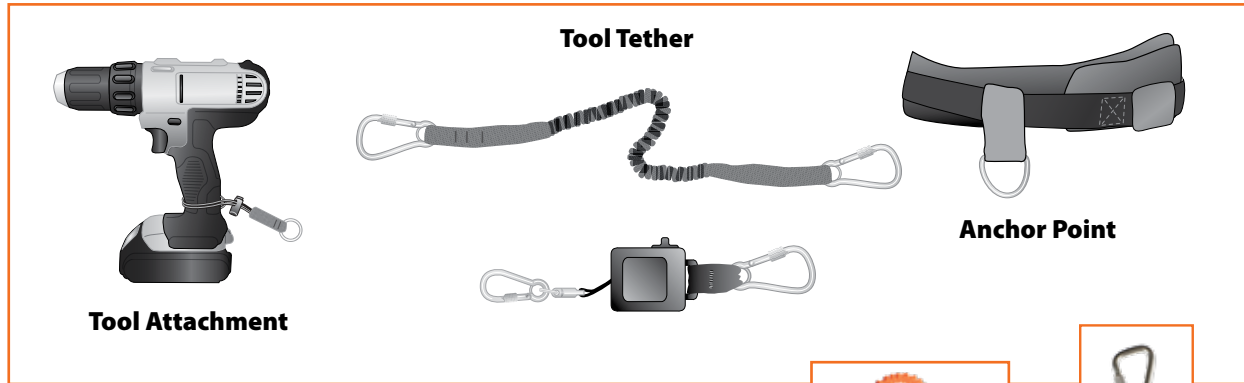
- Fixed End Lanyard uses a nylon braid with reinforced core which provides superior strength and durability at a reduced size for ease of use.
- A tight weave means less chance of snagging during use.
- Gear Keeper's tether cord is easier to thread through a tool's attachment point and easier to fabricate attachments to tools.
- Cord can easily be visually inspected for wear.

## 6 ANSI/ISEA-121-2018

- Meets or exceeds testing per ANSI Standard
- Tethers have 2X safety margins, tested under hot and cold temperature extremes, testing with moisture...
- Carabiners have locking gates and captive eye
- Labeling includes product serialization and manufacture dates

# Selecting Tether Style

## Two-Carabiner Tethers



- Mounting Carabiner hooks to anchor point.
- Tool Carabiner allows *easy tool change-out*.

NOTE: Requires tool to have load ring style attachment point

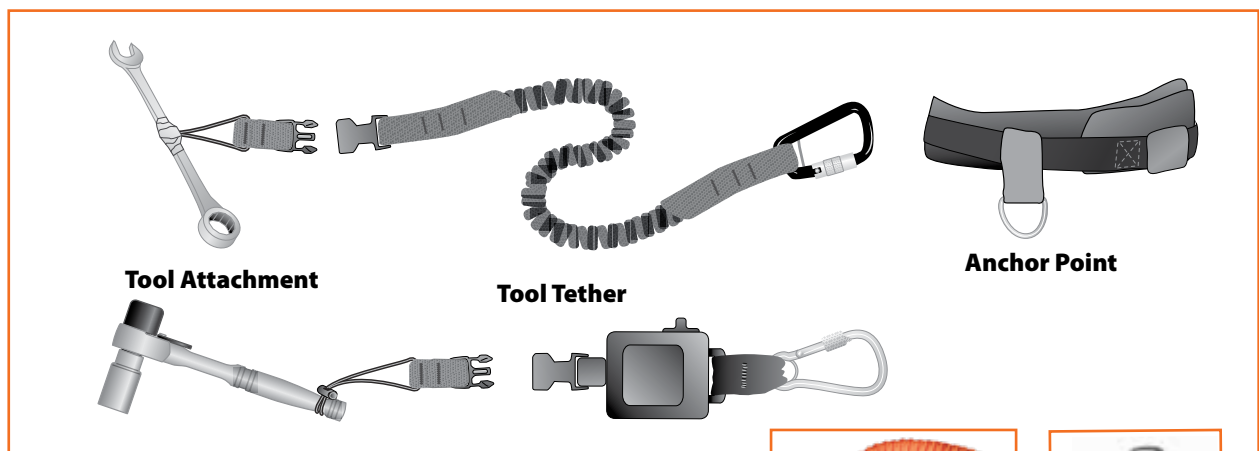


See Page 4



See Page 7

## Side Release Tether



- Mounting Carabiner hooks to anchor point.
- Tool attachment (using Side Release Lanyard) allows *easy tool change-out*.

NOTE: Tool attachment is part of tether system



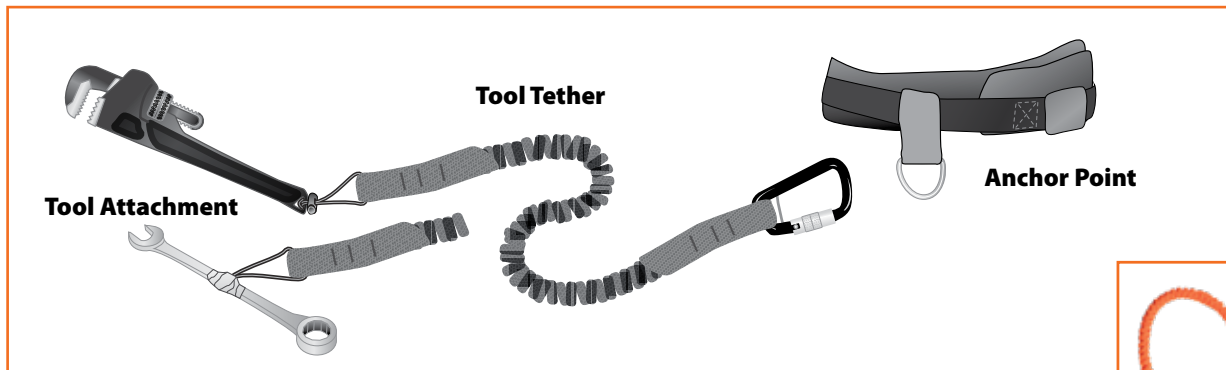
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## Fixed End Lanyard

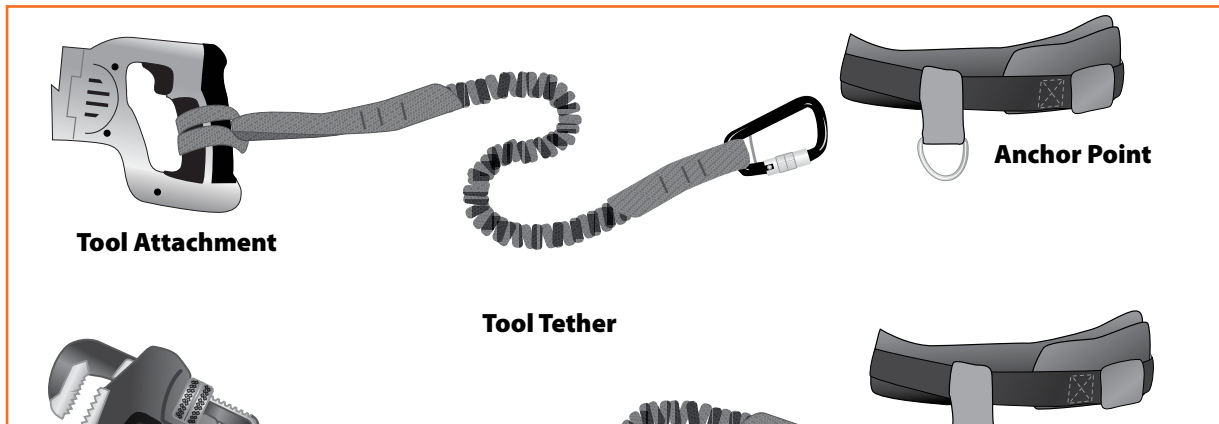


- Mounting Carabiner hooks to anchor point.
- Tool attachment (using lanyard end) **does NOT allow easy tool change-out.**

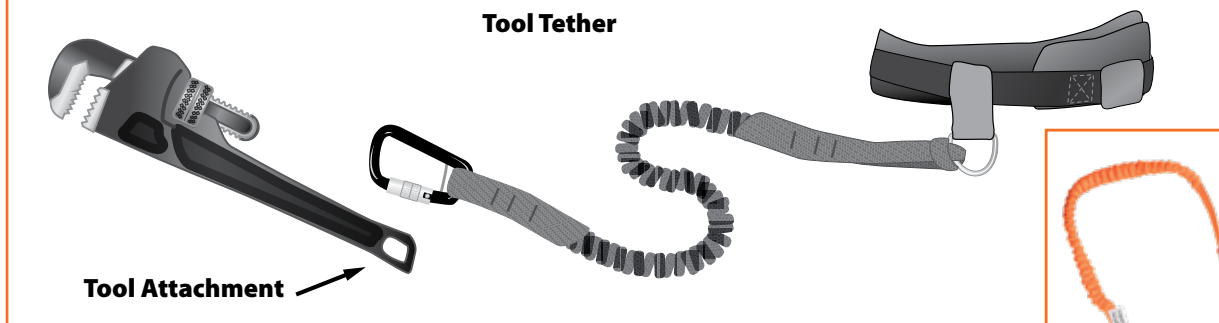
See Page 4

## Loop Style Lanyard

### Option 1



### Option 2



See Page 4

#### Option 1:

- Mounting Carabiner hooks to anchor point.
- Tool attachment (using lanyard end) **does NOT allow easy tool change-out.**

#### Option 2:

- Lanyard strap lashes to anchor point.
- Tool Carabiner allows **easy tool change-out.**

NOTE: Requires tool to have load ring style attachment point



## Shock Absorbing Personal Tool Tethers 3/4" Super Coil™

ANSI/ISEA 121-2018

Typically attached to a person;  
Provides arms-reach extension



### 2 Carabiner

Load Limit: 15 lb / 6.8 kg  
Retracted Length: 27" / 68 cm  
Extended Length: 48" / 122 cm



- **TL1-3041**  
Aluminum Double  
Lock Carabiner  
\$36.00 / 10 pk-\$33.50 each

### Side Release Lanyard

Load Limit: 5 lb / 2.2 kg  
Retracted Length: 34" / 86 cm  
Extended Length: 52" / 132 cm



- **TL1-3042**  
Aluminum Double  
Lock Carabiner  
\$29.00 / 10 pk-\$26.50 each

**AC0-0204-3PK**  
(\$14.00 / 3 pack)  
**6" Side Release  
Accessory Lanyard**  
Used with TL1-3042,  
TL1-3022

### Fixed End Lanyard

Load Limit: 15 lb / 6.8 kg  
Retracted Length: 27" / 68 cm  
Extended Length: 48" / 122 cm



- **TL1-3044**  
Aluminum Double  
Lock Carabiner  
\$28.00 / 10 pk-\$25.50 each

### Carabiner/Loop

Load Limit: 15 lb / 6.8 kg  
Retracted Length: 27" / 68 cm  
Extended Length: 48" / 122 cm



- **TL1-3045**  
Aluminum Double  
Lock Carabiner  
\$27.00 / 10 pk-\$24.50 each

### Construction / Benefits

- The 3/4" Super Coils are strong, impact absorbing tethers. Their Nylon webbing construction, with integrated elastic, provides the shortest retracted length to minimize entanglement and low force extension to reduced fatigue during use.
- Fixed End Lanyard uses a nylon braid with reinforced core which provides superior strength and durability at a reduced size for ease of use.



- **TL1-3021**  
Stainless Steel  
Locking Carabiner  
\$28.00 / 10 pk-\$25.50 each



- **TL1-3022**  
Stainless Steel  
Locking Carabiner  
\$25.00 / 10 pk-\$22.50 each



- **TL1-3024**  
Stainless Steel  
Locking Carabiner  
\$24.00 / 10 pk-\$21.50 each



- **TL1-3025**  
Stainless Steel  
Locking Carabiner  
\$23.00 / 10 pk-\$20.50 each



## Shock Absorbing Personal Tool Tethers 1/2" Economy Coil™

ANSI/ISEA 121-2018

Typically attached to a person;  
Provides arms-reach extension  
Economically Priced

### Construction / Benefits

- The 1/2" Economy Coils are strong and cost effective. They use polypropylene webbing construction with integrated elastic. It provides the shortest retraction length to minimize entanglement and low-force extension for reduced fatigue.
- Fixed End Lanyard uses a nylon braid with reinforced core which provides superior strength and durability at a reduced size for ease of use



### 2 Carabiner

- **TL1-3131**  
Zinc Locking Carabiner  
\$17.50 / 10 pk-\$15.50 each

Load Limit: 10 lb / 4.5 kg  
Retracted Length: 26" / 66 cm  
Extended Length: 46" / 117 cm



### Fixed End Lanyard

- **TL1-3134**  
Zinc Locking Carabiner  
\$17.00 / 10 pk-\$15.00 each

Load Limit: 10 lb / 4.5 kg  
Retracted Length: 26" / 66 cm  
Extended Length: 46" / 117 cm



### Carabiner/Loop

- **TL1-3135**  
Zinc Locking Carabiner  
\$15.50 / 10 pk-\$13.50 each

Load Limit: 10 lb / 4.5 kg  
Retracted Length: 27" / 69 cm  
Extended Length: 47" / 119 cm



## Shock Absorbing Anchored Tool Tethers 1" Super Coil™

ANSI/ISEA 121-2018

18 foot Diameter Working Area  
With a 4 foot Retracted Length

### 250% Stress-Free Extension Anchored Tethers For Tools Up To 25 lbs.

Gear Keeper's ergonomic Anchored Tool Tether Series is unique because it has been designed with a low force polyurethane elastic core that has a 2.5:1 stretch factor (3 ft relaxed – 9 ft extended). These tethers have the shortest retracted length combined with the longest extension length, offering significantly more stretch and retraction than competitive bungee-type core tethers.

### Construction / Benefits

- Designed for use with tools that are either too heavy to be attached to a person or when it is more advantageous to anchor the tool to a structure.
- The 1" Super Coil's 2.5:1 retraction capability minimizes entanglement issues when climbing or working in close quarters.



Long Working Length  
For Attachment  
To Lift Bucket Or  
Supported Structure

#### 9 Foot Tethers



#### 2 Carabiner

- TL1-4021**  
Stainless Steel Locking Carabiner  
\$47.00 / 10 pk-\$45.00 each  
  
Load Limit: 25 lb / 11.3 kg  
Retracted Length: 42" / 107 cm  
Extended Length: 109" / 277 cm



#### Fixed Web Loop

- TL1-4025**  
Stainless Steel Locking Carabiner  
\$43.00 / 10 pk-\$41.00 each  
  
Load Limit: 25 lb / 11.3 kg  
Retracted Length: 55" / 140 cm  
Extended Length: 112" / 284 cm

#### 6 Foot Tethers

- TL1-4121**  
Stainless Steel Locking Carabiner  
\$40.00 / 10 pk-\$38.00 each  
  
Load Limit: 25 lb / 11.3 kg  
Retracted Length: 35" / 89 cm  
Extended Length: 72" / 183 cm

- TL1-4125**  
Stainless Steel Locking Carabiner  
\$36.00 / 10 pk-\$34.00 each  
  
Load Limit: 25 lb / 11.3 kg  
Retracted Length: 35" / 89 cm  
Extended Length: 72" / 183 cm



## Wrist Lanyards

ANSI/ISEA 121-2018

Designed for use with small hand tools  
Ideal when a short drop distance is required



#### Retractable Wrist Lanyard

- TL1-2006** (\$32.50)  
Load Limit: 16 oz / .45 kg.  
Extended Length: 46" / 117 cm  
Retraction Force: 3 oz / 85 gm

#### Additional Lanyards

- ACO-0926-3PK**  
QC/II Shock Absorbing Lanyard  
3 pk-\$14.00 / 10 pk-\$45.00



#### Standard Wrist Lanyard

- \$9.00 / 10 pk-\$8.00 each
- TL1-2004**  
Load Limit: 5 lb / 2.2 kg.  
Extended Length: 20" / 50 cm

#### TL1-2005

- Load Limit: 5 lb / 2.2 kg.  
Extended Length: 10" / 50 cm

- Velcro Wrist Strap
- Basic Wrist Lanyard with a dedicated lanyard loop for attaching to a tool.



#### Deluxe Wrist-Velcro Lanyard w/ Barrel Lock

- TL1-2007**  
\$12.00 / 10 pk-\$11.00 each  
Load Limit: 5 lb / 2.2 kg.  
Extended Length: 10" / 25 cm

- Allows for easy tool change-out
- Wrist strap secured with loop and cinch Velcro

#### Additional Lanyards

- ACO-0206-3PK**  
Lanyard w/ Barrel Lock  
3 pk-\$14.00 / 10 pk-\$45.00



#### Deluxe Wrist-Side Release Lanyard w/ Barrel Lock

- TL1-2009**  
\$12.00 / 10 pk-\$11.00 each  
Load Limit: 5 lb / 2.2 kg.  
Extended Length: 10" / 25 cm

- Allows for easy tool change-out
- Wrist strap secured with adjustable side-release buckle

#### Additional Lanyards

- ACO-0206-3PK**  
Lanyard w/ Barrel Lock  
3 pk-\$14.00 / 10 pk-\$45.00



#### Deluxe Wrist-Velcro SS Snap Lanyard

- TL1-2008**  
\$15.50 / 10 pk-\$14.75 each  
Load Limit: 5 lb / 2.2 kg.  
Extended Length: 10" / 25 cm

- Allows for easy tool change-out
- Wrist strap secured with loop and cinch Velcro

#### Additional Lanyard

- ACO-0207**  
SS Snap Lanyard  
\$8.50 / 10 pk-\$7.65 each



# Gear Keeper Industrial-Strength Family of Retractors Made in the USA

## Retractable Gear Attachment Systems... as flexible as your imagination.

Designed around the highly engineered Gear Keeper Retractor family, this unique modular tethering system allows users to fine-tune tethers and lanyards for their own specific needs. The Quick Connect (Q/C and Q/C-II) System is a patented feature of the Gear Keeper. Retractor Systems that permits one retractor to be used with many different tools.

## Tool Tethering Involves Some Very Specific User Safety Demands.

When you have an application that can prevent injury when a tool is dropped from above, why would you settle for anything else? You want a product that simply works out of the box and continues to work for years of prolonged use.

## Beware Of Ratcheting Locks... They Have A Serious Downside.

Ratcheting locks negatively impact productivity. Don't be fooled by gimmicks... The concept of a ratcheting lock is enticing, but take it into the field and try it on a job. Ratcheting devices are notoriously unreliable, particularly in dirty industrial environments, and they often do not lock or unlock when desired. For efficient and productive field use, the technician wants to grab a tool out of their bag, use it, and put it away without the need for time consuming second and third steps to lock or unlock a ratchet or disentangle a hanging loop of line.



RT3



RT4



RT2



RT5



## No Stress When Extended... No Snap-Back When Released.

Balancing extension force with retraction force for optimum productivity is our goal. You don't want to be fighting with a high retraction force when you're using the tool above your head or at arms length. Gear Keeper uses a specially designed spring with the exact minimal force necessary to retract a tangle-free line when putting the tool away. No force whatsoever when using a tool. No line slack to get caught or entangled when retracting it.



## Concerns About A Dirty Work Environment?

Don't be, the Gear Keepers patented flushing system allows the unit to be cleaned and flush should debris impact the internal mechanism.

## Highly Engineered For Safety And Productivity For Industrial Applications.

For over two decades, and made in the USA, Hammerhead Industries has been building sophisticated retracting devices that don't break, hang up or bounce-back. Their applications and customers range from Harley Davidson motorcycle components to thermal cameras for firefighters. They are used for securing side arms for the military and saltwater submersion for offshore oil drilling. These remarkable devices are highly engineered to have high break strength and an extremely long life that has been proven through years of service in harsh and dirty abusive environments.

## Retractable Tool Tethers

ANSI/ISEA 121-2018

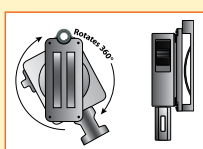
Industrial-strength retracting devices maintain load ratings with flexible wear resistant Spectra/Nylon line

### Construction/Benefits

Side Release Lanyard Tool Attachment System allows quick and easy tool change-out. Attach male shock absorbing side release lanyard to all your tools. See pages 12-13 for tool attachment installation instructions.

Note: 1-lb and 2-lb side release attachments are unique to the specific retractor.

- Attaches to tool belt or fall-protection harness
- Rotates 360°
- Minimizes resistance and line wear



### Retractables - 1 lb. Load Limit



#### Stainless Steel Carabiner

- RT4-5602
- \$29.00 / 10 pk-\$27.00 each
- Load Limit: 16 oz / .45 kg  
Extended Length: 55" / 140 cm  
Retraction Force: 3 oz / 85 gm



#### Q/C-II Shock Absorbing Lanyards

- Used w/ RT4-5602, RT4-5604
- ACO-0926-3PK
- 3 pk-\$14.00 / 10 pk-\$45.00  
Load Limit: 16 oz / .45 kg

### Retractables - 2 lb. Load Limit



#### Stainless Steel Carabiner

- RT3-5602
- \$35.00 / 10 pk-\$33.00 each
- Load Limit: 32 oz / .9 kg  
Extended Length: 60" / 152 cm  
Retraction Force: 7 oz / 198 gm



#### Combo Mount SS Carabiner & 360° Rotating Belt Clip

- RT3-5603
- \$39.00
- Load Limit: 32 oz / .9 kg  
Carabiner Extended Length: 60" / 152 cm  
Belt Clip Extended Length: 52" / 132 cm  
Retraction Force: 7 oz / 198 gm



#### 360° Rotating Belt Clip

- RT3-5604
- \$35.00 / 10 pk-\$33.00 each
- Load Limit: 32 oz / .9 kg.  
Extended Length: 52" / 132 cm  
Retraction Force: 7 oz / 198 gm



#### S/R Shock Absorbing Lanyard

- Used w/ RT3-5602 RT3-5603, RT3-5604
- ACO-0205-3PK
- 3 pk-\$14.00 / 10 pk-\$45.00  
Load Limit: 32 oz / .9 kg

## Retractable Tethers

### 3.5 lb. Load Limit

ANSI/ISEA 121-2018

Strong and durable nylon webbing absorbs shock and resists wear and fatigue

- Designed for use with small hand tools up to 3.5 lbs. Engineered with a low profile configuration to avoid entanglement issues when multiple tethers are used.
- When a tool is placed in a tool bag/pouch, lanyard exposure is minimized to avoid snagging when climbing or when used in cramped working quarters.
- The retractor mechanism is designed to retract the lanyard, NOT THE TOOL. Retractor employs a very low force to avoid arm strain, but keeps the line taught to avoid snagging or interference with the work being performed.



#### Heavy - Duty Retractable Personal Tool Tether – 3.5 lb. Load Limit

- Strong impacting absorbing Nylon webbing Convenient Locking Gate Stainless
- Steel Carabiner for tool attachment

- RT3-5605
- \$40.00 / 10 pk-\$38.00 each

Load Limit: 3.5 lb / 1.58 kg  
Extended Length: 55" / 140 cm  
Retraction Force: 7 oz / 198 gm



Low profile tether can be used with or without tool bag

### New Tape Measure Lanyard Provides Ample 36" Extension Enabling Arms-Length Reach.

- Carried by inspectors as well as technicians.
- Low Profile tether that can be worn on a belt - Not obtrusive like a standard tool tether.
- Provides minimal resistance on tape measure during use. NOTE – not designed to retract the tape measure but to retract tethered line.
- Includes disconnectable shock absorbing lanyard.
- Available in a SS Rotating Belt Clip for easy and secure attachment to a belt, or snap clip for attachment to D-Ring.



- **RT4-5615 Rotating Belt Clip Mount**  
\$29.00 / 10 pk-\$27.00 each  
Load Limit: 20 oz / .56 kg  
Extended Length: 45" / 117 cm  
Retraction Force: 6 oz / 170 gm



- **RT4-5611 Stainless Steel Carabiner**  
\$29.00 / 10 pk-\$27.00 each  
Load Limit: 20 oz / .56 kg.  
Extended Length: 48" / 130 cm  
Retraction Force: 6 oz / 170 gm

## Hard Hat Tethers

### Retractable Hard Hat Tether Low profile & more comfortable

- **RT5-5601 Velcro Strap Mount**

*Velcro Strap Loops and cinches around the fall protection harness strap, ring or tri-bar.*

\$17.50 / 10 pk-\$16.00 each



Load Limit: 18 oz / .51 kg  
Extended Line Length: 14" / 36 cm  
Retraction Force: 2.5 oz / 70 gm

- **RT5-5602 Threaded Stud Mount**

*Threaded Stud securely attaches to garment with structure such as coveralls or vest.*

\$18.50 / 10 pk-\$17.00 each



### Standard Hard Hat Tether

- **TL1-5001 20" Loop Mount**
- Basic cost-effective hard hat strap.
- Spring clip attaches to clothing to secure hard hat.

**Warning:** the holding force of the Spring Clip to clothing is dependent on structure of the clothing. This is not a secured mount like on the retractable hard hat lanyard. Integrity of the attachment is up to the user.

\$7.50 / 10 pk-\$7.00 each

Load Limit: 18 oz / .51 kg  
Length: 16" / 41 cm





## Vest-Mounted Tethers - Drop Safe Without Slowing You Down

- Our low-profile system is much less obtrusive and cumbersome than bulky coils or cables.
- Mounted in a pocket, it keeps your valuable small gear easily accessible but safe and out of the way.
- Threaded Stud securely attaches to garment with structure such as coveralls or vest.

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### Retractable Hard Hat Tether

- RT5-5602 Threaded Stud Mount
- \$18.50 / 10 pk-\$17.00 each
- Load Limit: 18 oz / .51 kg  
Extended Line Length: 14" / 36 cm  
Retraction Force: 2.5 oz / 70 gm



### Pencil/Pen Tether

- RT5-5605 Threaded Stud Mount
- \$18.00 / 10 pk-\$16.50 each
- Load Limit: 3 oz / 85 gm  
Extend: Length: 36" / 92 cm  
Retract: Force: 2.5 oz / 70 gm  
Pencil/Pen Not Included



### Smart Phone Tether

- RT5-5420 Threaded Stud Mount
- \$20.00 / 10 pk-\$18.50 each
- Load Limit: 8 oz / 227 gm  
Extended Length: 26" / 66 cm  
Retraction Force: 2.5 oz / 70 gm



### Small Radio Tether

- RT4-5322 Threaded Stud Mount
- \$27.50 / 10 pk-\$25.50 each
- Load Limit: 13 oz / 369 gm  
Extended Length: 32" / 81 cm  
Retraction Force: 9 oz / 255 gm



**Security in Your Pockets**



### Tablet / Large Radio Tether

- RT3-5610 Threaded Stud Mount
- \$30.00 / 10 pk-\$28.00 each
- Load Limit: 24 oz / 680 gm  
Extended Length: 30" / 76 cm  
Retraction Force: 12 oz / 340 gm

This Application needs a case with a built-in strong anchor point  
We tested Groleoa



### Tape Measure or Tool Tether

- RT4-5622 Threaded Stud Mount
- \$27.00 / 10 pk-\$25.00 each
- Load Limit: 20 oz / .56 kg  
Extended Length: 30" / 117 cm  
Retraction Force: 6 oz / 170 gm



**Great for Hand Tools**



**Warning :** Stud Mounts must be installed in clothing with structure, NOT in mesh material.



# Loop, Cinch & Secure Tool Attachment Method

Very Secure • Reliable • Easy to Use • Cost Effective • Flexible

LOOP CINCH SECURE

*Easy choices that fabricate to almost any tool*



A

It is not unusual for a tool to not have an appropriate or rated tether attachment point.

There are two methods for attaching tethers to tools:

- A. Directly attach a **lanyard-type tether** to the tool
- B. Fabricate a **load ring** to a tool and then attach a **carabiner-style tether** to the load ring attachment point (see Tool Attachment Accessories Page 11)



B

For structural integrity the **load ring** is looped and cinched directly to the tool. Adding **FRSS Tape** secures the cinched tool attachment and provides extra friction against slippage. A tightly cinched tool attachment using this method will have minimal to no slippage in a tool drop—as opposed to simply taping the tool attachment to the tool as its only structural attachment.

**Loop**



**Cinch**



**Secure**



LOOP CINCH SECURE



**Warning:** We do not recommend the use of **FRSS tape** as THE ONLY structural component of a tool attachment. Although, depending on tool weight this might work, the structural integrity of a looped tool attachment is more secure.

We recommend four methods of fabricating safe and secure tool attachments using the Accessories on the following page >



A. Tool Attachment Installation with Tool Geometry (See page 12)



B. Tool Attachment Installation with Minimal or No Tool Geometry (See page 12)



C. Loop Lanyard Installation (See page 13)



D. Swivel Tool Attachment Installation (See page 13)



# Anchor Attachment Accessories

ANSI/ISEA 121-2018

## Loop & Cinch around Web Belt



**Slip-On Web Belt**



**Load Ring Strap / Stainless Steel**

- TA2-2001  
Load Limit: 15 lb / 6.8 kg  
Max Tether Length: 6 ft / 182 cm  
\$6.50 / 10 pk-\$5.60 each



**Belt Loop Load Ring / Stainless Steel**

- TA2-2002  
Load Limit: 15 lb / 6.8 kg  
Max Tether Length: 6 ft / 182 cm  
\$6.00 / 10 pk-\$5.00 each

## Tool Attachment Accessories

ANSI/ISEA 121-2018

**Load Ratings When Used With Tool Tethers  
Up To 72"/183 cm Extension Length...  
ie. for use with tethers up to 6'**

**Important:** Care must be taken in determining the weight of the tool and its geometry. Since the weight and types of tools, types of lanyards and tool geometry are variables, the integrity of creating an attachment point becomes user-dependent. With a looped tether, the strength of the attachment is based on the lanyard wrapped around the tool. In this case, the purpose of taping is simply to keep the attachment point from sliding off the tool as opposed to being an integral structural part of the attachment.



**Load Ring Strap / Stainless Steel**

- TA1-1001-3PK  
3 pk-\$14.00 / 10 pk-\$45.00  
Load Limit: 5 lb / 2.2 kg  
Max Tether Length: 6 ft / 182 cm



**Load Ring Swivel / Zinc Plated**

- TA1-1002-3PK  
3 pk-\$18.50 / 10 pk-\$59.00  
Load Limit: 5 lb / 2.2 kg  
Max Tether Length: 6 ft / 182 cm



**Load Ring Strap / Stainless Steel**

- TA1-2001-3PK  
3 pk-\$14.50 / 10 pk-\$46.50  
Load Limit: 10 lb / 4.5 kg  
Max Tether Length: 6 ft / 182 cm



**Load Ring Lanyard / Stainless Steel**

- TA1-2003-3PK  
3 pk-\$16.50 / 10 pk-\$50.00  
Load Limit: 10 lb / 4.5 kg  
Max Tether Length: 6 ft / 182 cm



**Load Ring Strap / Stainless Steel**

- TA1-3001  
\$6.50 / 10 pk-\$5.60 each  
Load Limit: 15 lb / 6.8 kg  
Max Tether Length: 6 ft / 182 cm



**Load Ring Swivel / Zinc Plated**

- TA1-3002  
\$9.00 / 10 pk-\$7.50 each  
Load Limit: 15 lb / 6.8 kg  
Max Tether Length: 6 ft / 182 cm



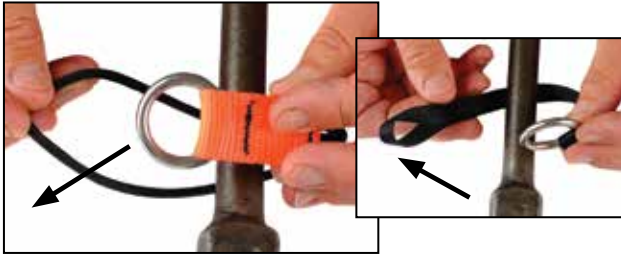
**Fiberglass Reinforced Self Fusing Silicon Tape / 10' (FRSS)**

- \$19.99
- TA3-1001 Orange
  - TA3-1002 Clear

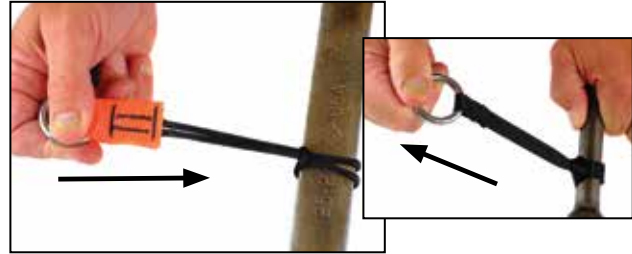
## A. Tool Attachment Installation with Tool Geometry

**LOOP CINCH SECURE**

### 1. Loop Tool Attachment



### 2. Cinch Tool Attachment tight



### 3. Tape Tool Attachment to Secure



Apply **FRSS tape** to cinched tool attachment in a criss-cross manner, extending the tape above and below the tool attachment. Recommend minimum of three wraps of FRSS tape.

Completed taping will prevent the tool attachment from slipping off the tool. The structural connection is the cinched tool attachment itself, not the tape. Test for structural integrity and insure tool attachment does not slip.

### Important:

Inspect tool attachment connection before each use. If tape wears or tool attachment loop becomes loose, re-install!



Tool attachment can be left dangling loose.



**Optional:** Continue taping loose part of tool attachment as desired to minimize dangle.

**Note:** Tape is NOT a structural part of the connection!

**Warning:** We do not recommend the use of **FRSS tape** as THE ONLY structural component of a tool attachment. Although, depending on tool weight this might work, the structural integrity of a looped tool attachment is more secure.



## B. Tool Attachment Installation with Minimal or No Tool Geometry

### 1. Install as per Section A above



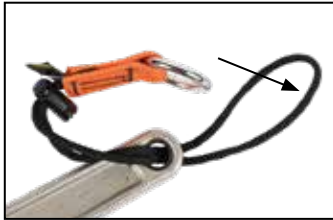
### 2. Apply minimum 3 wraps of FRSS Tape as shown to create a Stop Block



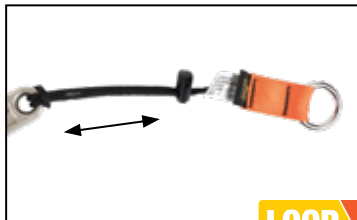
**Note:** Use of a **Stop Block** is not ideal but for tools with minimal or no geometry, it is functional.  
**Warning:** If **Stop Block** or tool attachment slips, reinstall tool attachment and stop block.

## C. Loop Lanyard Installation Attaching to a Tool Hole or Directly to a Tool

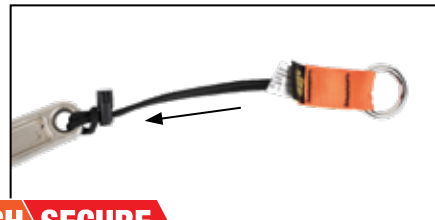
### 1. Feed through open Loop



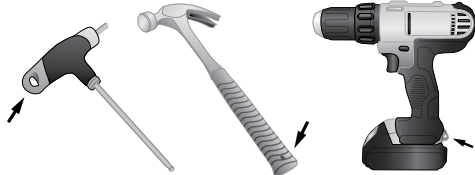
### 2. Cinch Lanyard tight



### 3. Tighten Barrel Lock to Secure

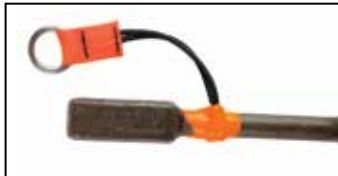


**LOOP CINCH SECURE**



**Note:** When installing to a tool's integrated attachment point verify with the tool's manufacturer whether the attachment point is rated as a **tether point**.

### 1. For Attaching Directly to a Tool, see Section A



### Warning



Looping around tool and cinching tight with a barrel lock is **NOT** recommended as barrel lock may become dislodged and lanyard could slip off tool. For this type of installation, remove barrel lock and tape cinched cord to tool as shown in **Section A**.

## D. Swivel Tool Attachment Installation

**LOOP CINCH SECURE**

### 1. Loop Tool Attachment



### 2. Cinch Tool Attachment tight



**Note:** Tool attachment should be looped around tool, not around grip, because grip could slide off tool!

### 3. Tape Tool Attachment to Secure



Apply **FRSS tape** to cinched tool attachment in a criss-cross manner, extending the tape above and below the tool attachment. Recommend minimum of three wraps of tape. Test for structural integrity and insure tool attachment does not slip.



Tool attachment must also be taped and secured close to the swivel in order for swivel to work properly.



For screw driver attachment, it is **NOT** necessary to tape the cinched loop. Simply tape close to the Swivel



**Warning :** Inspect tool attachment connection before each use. If tape wears or tool attachment becomes loose, re-install!



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