

SAFETY ENGINEER'S GUIDE TO TOOL TETHERING



Building quality tool and gear tethers since 1995





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



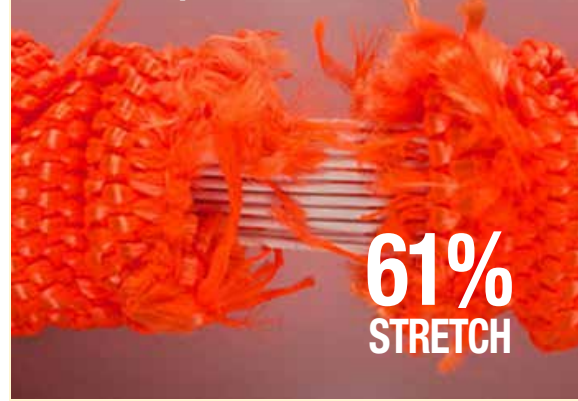
Ergonomically Designed Gear Keeper Tether

* 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

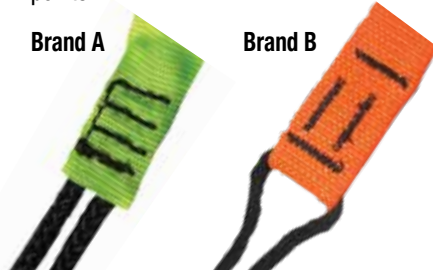
- More stretch for best extension and greater range of use.
- Minimum resistance reduces extension fatigue.
- Woven integrated elastic for shortest retraction length, minimizes entanglement issues when climbing or working in close quarters.

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.



5 Gear Keeper Tether Cord

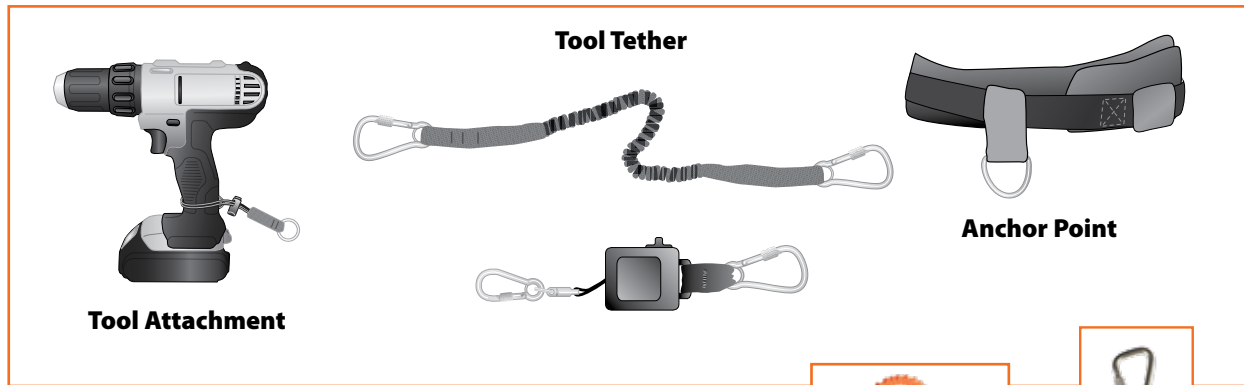
- Fixed End Lanyard uses a nylon braid with reinforced core which provides superior strength and durability at a reduced size for ease of use.
- A tight weave means less chance of snagging during use.
- Gear Keeper’s tether cord is easier to thread through a tool’s attachment point and easier to fabricate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

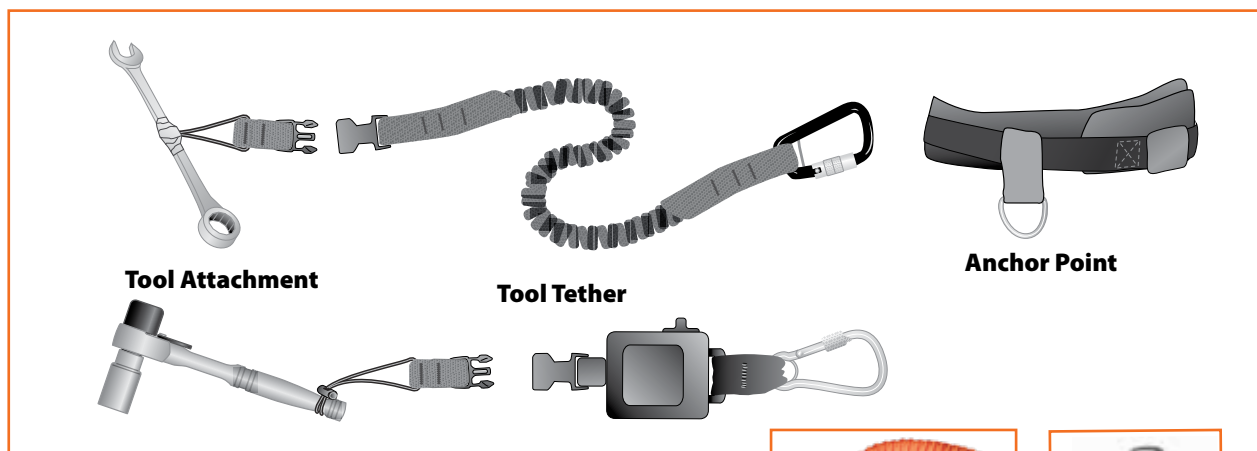


See Page 4



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

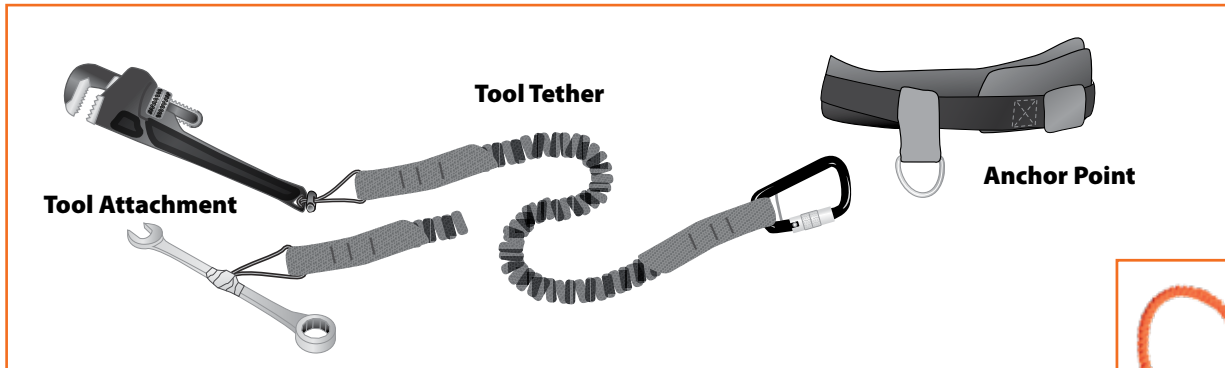


See Page 4



See Page 7

Fixed End Lanyard



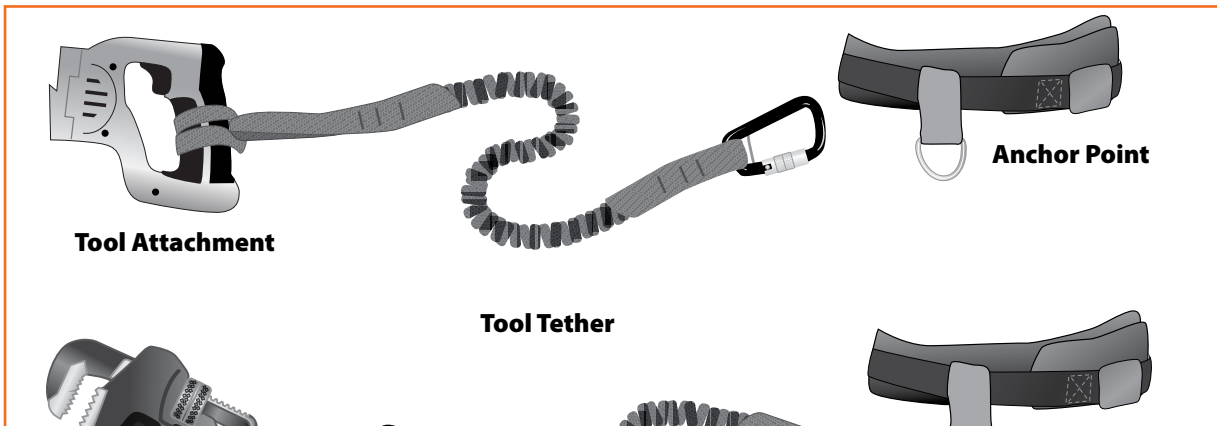
- Mounting Carabiner hooks to anchor point.
- Tool attachment (using lanyard end) **does NOT allow easy tool change-out.**

See Page 4

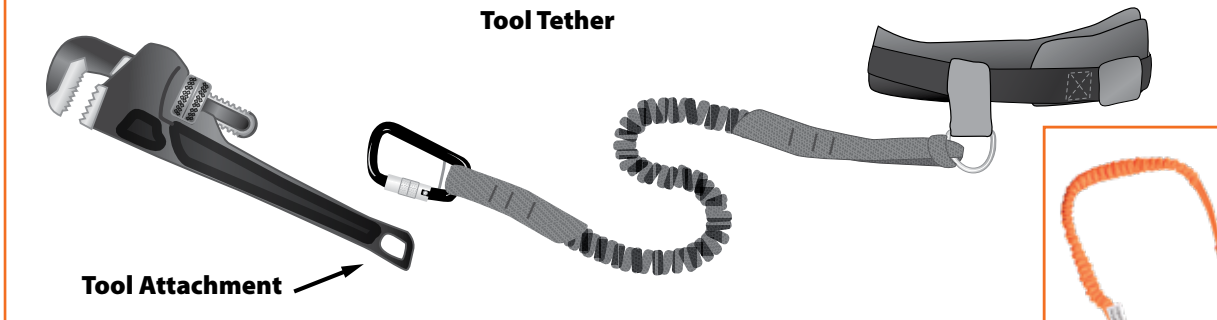


Loop Style Lanyard

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™

Typically attached to a person
Provides arms-reach extension

ANSI/ISEA 121-2018



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.

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

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

AC0-0204-3PK
6" Side Release Accessory Lanyard
Used with TL1-3042, TL1-3022



- **TL1-3021**
Stainless Steel Locking Carabiner



- **TL1-3022**
Stainless Steel Locking Carabiner

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



- **TL1-3024**
Stainless Steel Locking Carabiner

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



- **TL1-3025**
Stainless Steel Locking Carabiner



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

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



Carabiner/Loop

- **TL1-3135**
Zinc Locking Carabiner
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



2 Carabiner

- TL1-4021
Stainless Steel Locking Carabiner

Load Limit: 25 lb / 11.3 kg
Retracted Length: 42" / 107 cm
Extended Length: 109" / 277 cm



9 Foot Tethers

Fixed Web Loop

- TL1-4025
Stainless Steel Locking Carabiner

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

Load Limit: 25 lb / 11.3 kg
Retracted Length: 35" / 89 cm
Extended Length: 72" / 183 cm

- TL1-4125
Stainless Steel Locking Carabiner

Load Limit: 25 lb / 11.3 kg
Retracted Length: 35" / 89 cm
Extended Length: 72" / 183 cm



Wrist Lanyards

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



Retractable Wrist Lanyard

- TL1-2006
- 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



Standard Wrist Lanyard

- 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" / 25 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
- 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



Deluxe Wrist-Side Release Lanyard w/ Barrel Lock

- TL1-2009
- 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



Deluxe Wrist-Velcro SS Snap Lanyard

- TL1-2008
- 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

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.

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.



RT3



RT4



RT2



RT5



Retractable Tool Tethers

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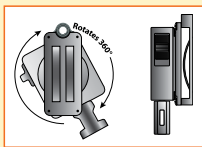
Industrial-strength retracting devices maintain load ratings with flexible wear resistant Spectra/Nylon line

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



Retractable - 1 lb. Load Limit



Stainless Steel Carabiner

- RT4-5602

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
Load Limit: 16 oz / .45 kg

Retractable - 2 lb. Load Limit



Stainless Steel Carabiner

- RT3-5602

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

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

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
Load Limit: 32 oz / .9 kg

Retractable Tethers

3.5 lb. Load Limit

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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

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





Application-Specific Tethers™

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- Our low-profile system is less cumbersome than coils or cables! You're tethered and compliant without the hassle.
- Mounted in a pocket, on a D-ring or a belt, your valuable small gear is easily accessible without entanglement.



Retractable Tape Measure Tethers

Mounts on a belt

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



Mounts to a D-ring

- **RT4-5611 Stainless Steel Carabiner**
Load Limit: 20 oz / .56 kg.
Extended Length: 48" / 130 cm
Retraction Force: 6 oz / 170 gm



Mounts inside a pocket

- **RT4-5622 Threaded Stud Mount**
Load Limit: 20 oz / .56 kg
Extended Length: 30" / 76 cm
Retraction Force: 6 oz / 170 gm



Small Radios

Mounts inside a pocket

- **RT4-5322 Threaded Stud Mount**
Load Limit: 13 oz / .36 kg
Extended Length: 32" / 81 cm
Retraction Force: 9 oz / 255 gm



Mounts on a belt

- **RT4-5352 Belt Clip Mount**
Load Limit: 13 oz / .36 kg
Extended Length: 32" / 81 cm
Retraction Force: 9 oz / 255 gm



Large Radios

Mounts inside a pocket

- **RT3-5610 Threaded Stud Mount**
Load Limit: 24 oz / .68 kg
Extended Length: 30" / 76 cm
Retraction Force: 12 oz / 340 gm



Mounts on a belt

- **RT3-5650 Belt Clip Mount**
Load Limit: 24 oz / .68 kg
Extended Length: 36" / 91 cm
Retraction Force: 18 oz / 510 gm



Retractable Radio Tethers



Retractable Smart Phone Tethers

Mounts on a belt

- **RT4-5450 Rotating Belt Clip**
Load Limit: 8 oz / 227 gm
Extended Length: 36" / 91 cm
Retraction Force: 3 oz / 85 gm



Mounts inside a pocket

- **RT5-5420 Threaded Stud Mount**
Load Limit: 8 oz / 227 gm
Extended Length: 26" / 66 cm
Retraction Force: 2.5 oz / 70 gm



Hard Hat Tethers

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.



Mounts to D-ring

- **RT5-5601 Velcro Strap Mount**
Load Limit: 18 oz / .51 kg
Extended Line Length: 12" / 30 cm
Retraction Force: 2.5 oz / 70 gm

Mounts to Vest or Coveralls

- **RT5-5602 Threaded Stud Mount**

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



Vest Integration 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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Patented & Patent-Pending

Retractable Hard Hat Tether

- RT5-5602 Threaded Stud Mount

Load Limit: 18 oz / .51 kg
 Extended Line Length: 12" / 30 cm
 Retraction Force: 2.5 oz / 70 gm



Pencil/Pen Tether

- RT5-5605 Threaded Stud Mount

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

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

Load Limit: 13 oz / .36 kg
 Extended Length: 32" / 81 cm
 Retraction Force: 9 oz / 255 gm



Security in Your Pockets

This Application needs a case with a built-in strong anchor point
 We tested **Groleoa** (pictured here)

Tablet / Large Radio Tether

- RT3-5610 Threaded Stud Mount

Load Limit: 24 oz / .68 kg
 Extended Length: 30" / 76 cm
 Retraction Force: 12 oz / 340 gm



Tape Measure or Tool Tether

- RT4-5622 Threaded Stud Mount

Load Limit: 20 oz / .56 kg
 Extended Length: 30" / 76 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

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Loop & Cinch Around Web Belt



Load Ring Strap / Stainless Steel

- TA2-2001
Load Limit: 15 lb / 6.8 kg
Max Tether Length: 6 ft / 182 cm



Q/C-II Strap For: RT4-5604 Accy.

- TA2-2001
Load Limit: 15 lb / 6.8 kg
Max Tether Length: 6 ft / 182 cm



S/R (Retractor) Strap For: RT3-56xx Accy.

- TA2-2001
Load Limit: 15 lb / 6.8 kg
Max Tether Length: 6 ft / 182 cm



S/R (Coil Tether) Strap For: TL1-30x2 Accy.

- TA2-2001
Load Limit: 15 lb / 6.8 kg
Max Tether Length: 6 ft / 182 cm



Slip-On Web Belt



Belt Loop Load Ring / Stainless Steel

- TA2-2002
Load Limit: 15 lb / 6.8 kg
Max Tether Length: 6 ft / 182 cm



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
Load Limit: 5 lb / 2.2 kg
Max Tether Length: 6 ft / 182 cm



Load Ring Swivel / Zinc Plated

- TA1-1002-3PK
Load Limit: 5 lb / 2.2 kg
Max Tether Length: 6 ft / 182 cm



Load Ring Strap / Stainless Steel

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



Load Ring Lanyard / Stainless Steel

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



Load Ring Strap / Stainless Steel

- TA1-3001
Load Limit: 15 lb / 6.8 kg Max
Tether Length: 6 ft / 182 cm



Load Ring Swivel / Zinc Plated

- TA1-3002
Load Limit: 15 lb / 6.8 kg Max
Tether Length: 6 ft / 182 cm



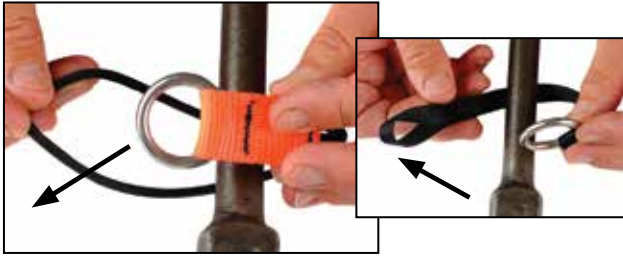
Fiberglass Reinforced Self Fusing Silicon Tape / 10' (FRSS)

- TA3-1001 Orange
- TA3-1002 Clear

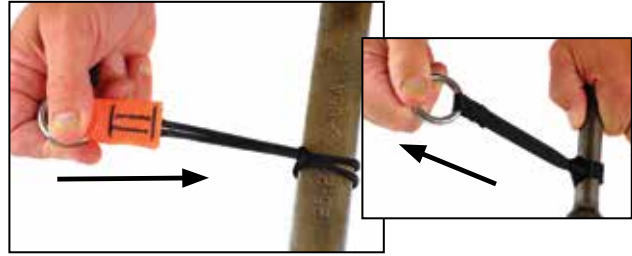
A. Tool Attachment Installation with Tool Geometry

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



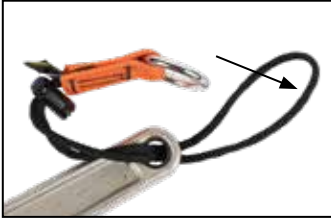
Stop Block



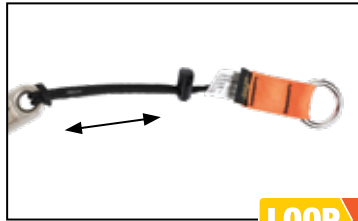
Note: Use of a **Stop Block** is not ideal but for tools with minimal or no geometry, it is functional.
Warning: If **Stop Block** or tool attachment slips, reinstall tool attachment and stop block.

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

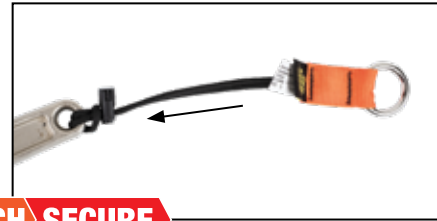
1. Feed through open Loop



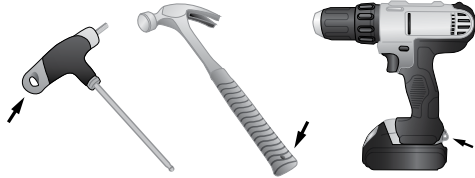
2. Cinch Lanyard tight



3. Tighten Barrel Lock to Secure

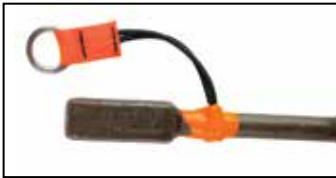


LOOP CINCH SECURE



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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