





 **Fire  
Rescue**

 **Industrial  
Safety**

 **Rope  
Rescue**

 **Tactical**

# Work 2017



## Sterling Work 2017

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New 7/16" WorkPro and Marathon™ Lanyard.

Quality components are the backbone of any kit or system, and Sterling has been making the best for over 20 years. However, simply having good pieces is not enough. They need to be thoughtfully integrated to ensure they function efficiently. By choosing a Sterling kit or system, you can be certain that the components will perform flawlessly together, saving time and effort regardless of the job at hand.

## Fire Escape Kits and Systems

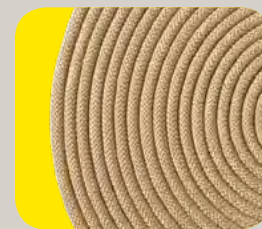
### The go-to choice for personal escape systems

Sterling pioneered the development of escape systems that allow rapid egress and self-rescue. Our escape kits and systems are built on a foundation of our proven ropes. In 2004, Sterling built the first 100% Technora® fire escape rope for FDNY. We now offer many options and configurations to suit the needs of various departments with different call areas. Here you'll find a list of our recommended setups, but if you need something customized to suit a unique set of requirements, contact our sales team.

We offer several versions of our Escape Systems and Kits, each based around one of our escape ropes (at right). Systems or kits can be configured to suit the department or firefighter's requirements.

### 1. Choose a Rope

The heart of any escape system is the rope. Sterling's ropes offer the perfect balance of strength, heat resistance, and compatibility with all the components of the escape system. **Full escape rope specs on p. 24.**



#### NEW FireTech2™

100% Technora rope offers the highest strength, longest burn-through time and best abrasion resistance.

NFPA 1983: Fire Escape



#### EscapeTech™

Kits with EscapeTech provide the best payout and best packability in a heat-resistant rope.

NFPA 1983: Fire Escape



#### SafeTech™

Systems with SafeTech ropes offer the best all-around combination of strength, durability and heat resistance.

NFPA 1983: Fire Escape

#### Certified escape systems to NFPA 1983

FCX FireTech2 Escape System with Lightning or Crosby Hook  
 FCX SafeTech Escape System with Lightning or Crosby Hook (pending)  
 F4 FireTech2 Escape System with Lightning or Crosby Hook  
 F4 SafeTech Escape System with Lightning or Crosby Hook

---> **Build a kit to match your specific needs by choosing a rope, descent control device, anchor, attachments and storage options.**

*A system is a collection of components, certified end-to-end to the NFPA 1983 Standard for Escape Systems.*

*A kit is a collection of individually-certified components combined to perform together.*

### 2. Choose a Descent Control Device

Safe, controlled descent is critical to escape systems. It's also important that the descent control device is auto locking, easy to use with either hand, and has good modulation characteristics. **Full specs on p. 39.**



#### NEW FCX™ Device

MBS: 3,035 lbs  
 Weight: 7.8 oz

The FCX is our newest and most advanced descent control device. It uses a unique cam feature that allows smooth modulation so the user can easily control the speed of descent with one hand, while a click-to-neutral feature allows for easy horizontal movement. Side rails prevent glove and sill interference and a spring-loaded handle stays out of the way until needed, which prevents snagging and tangling. NFPA 1983: Escape Descent Device

#### F4™ Device

MBS: 3,035 lbs  
 Weight: 6.0 oz

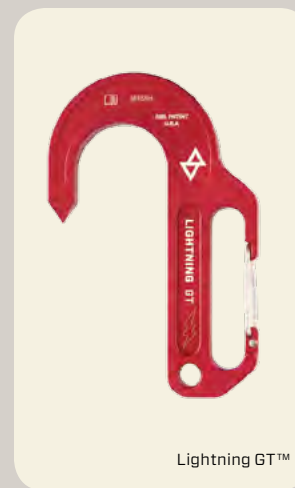
Designed to allow easy horizontal movement, a smooth sill transition and a controlled vertical descent. The auto-locking feature allows for a hands-free exit from the structure, while the slim profile integrates easily with turnout gear and keeps the F4 out of the way during regular operations. Versatile for right- or left-handed users. NFPA 1983: Escape Descent Device

### 3. Select an Anchor

Hooks have become a popular choice for anchors because they can be placed remotely or secured at a window sill in situations where a remote anchor is not feasible. We offer two versions of our lightweight, machined aluminum Lightning™ hooks and the classic steel Crosby™ hook. **Full specs on p. 39.**



Lightning



Lightning GT™

#### Lightning Hook/Lightning GT Hook

MBS: 3,035 lbs  
 Weight: 8.0 oz (Lightning); 7.7 oz (Lightning GT)

The lightweight aluminum Lightning hooks offer the functional design of either a hitching slot or innovative wire gate for secure and rapid remote anchoring. These features help to take the guesswork out of the most fundamental step of creating a fail-safe anchor. NFPA 1983: Escape Anchor

**All components, including sewn eye terminations, are individually certified to NFPA 1983.**



#### Crosby Hook

MBS: 5,000 lbs  
 Weight: 14.1 oz

The original portable anchor hook designed for the FDNY PSS. This forged alloy steel hook facilitates anchoring at the window or point of egress. NFPA 1983: Escape Anchor

### 4. Choose Attachments

The escape kit requires a secure connection to the firefighter's body. Escape harnesses or belts must be lightweight, not create an additional snag hazard and be easy to integrate into turnout gear. **Full specs on p. 39.**



#### Bolt Escape Belt™

Our low-profile Kevlar® escape belt integrates easily and securely with any turnout gear. It features adjustable D-rings to keep the attached escape system out of the way and also functions as a ladder belt. NFPA 1983: Heat Resistant Escape Belt



#### SafeD™ Carabiner

MBS: 5,845 lbs (major axis)  
 Asymmetrical D-shaped with removable captive eye pin

These rugged aluminum carabiners are the critical junction between the harness and the descent device. Pin prevents unauthorized disassembly and keeps the carabiner oriented to prevent cross-loading. NPFA 1983: Technical



#### Tech Extension Lanyard™

An extension tether between the carabiner and the descent device to allow the system to be stowed and prevent accidental deployment. Available in 7" and 9". Certified as part of escape systems when girth-hitched or sewn to descent device.

### 5. Select a Storage Option

Sterling's three storage configurations allow kits to connect to a harness and be carried in ready-to-use mode. Each of these options store 50' of rope, an anchor hook and descent device. **Full specs on p. 39.**



#### Pocket Bag

Integrates with existing hook and loop closure of any existing turnout pocket. High-abrasion and wear areas are lined with ultra-durable fabric to prevent damage to turnout gear from hooks and descenders. Also functions as a hip-mounted bag.



#### F4-50™ Bag

Made from flame-resistant material, this bag is designed for low-profile storage at the hip with secure attachment to the belt or harness. Able to be stowed right- or left-handed.



#### Mercury™ Lumbar Bag

Constructed with tearaway flap and extended handle for ease in deployment. Accommodates all hook types. Available in right- and left-handed designs.



New FCX™ FireTech2™ Fire Escape System with Lightning™ Hook.

Sterling is dedicated to producing the best possible product, and that means researching and testing our products thoroughly. Some testing is required for certification, but that's only the beginning. We submit our ropes to a battery of tests, which simulate field conditions in a controlled environment, so we can have the highest level of confidence that they will perform when needed. The testing will vary depending on the questions we want to answer and the expected usage of the rope.



Firebox setup. Photo by Mike Forbes at ropecraft.org.

## Escape Systems Environmental Testing

**Fire escape systems present unique challenges when it comes to testing.**

### Fire Test Setup Configurations

In addition to in-house testing, field testing and 3rd party certified testing labs, we need specialized procedures and equipment to produce real fireground conditions. By the time these tools are deployed in the field, we need to be assured they will perform as required under harsh conditions.

We developed specialized testing procedures designed to simulate real fire conditions: high heat, rollover and flashover. We subjected our anchor hooks and escape ropes to these conditions for a set period of time or until failure.

#### Hook Types Tested

- **Lightning GT™** (machined aluminum)
- **Crosby®** (forged steel)

#### Rope Types Tested

- 7.5 mm **FireTech2™** (100% Technora®)
- 8.0 mm **PER** (100% Nylon)

#### System Tension

- All tests were set up with a 300-lb load on each rope

#### Test Temperature Goal

- 1200°F for the test “room” environment, though the temperature varied by actual location.

#### Anchor Location

- In accordance with personal escape system guidelines, we tested systems with two anchor locations:
- **Remote Anchor:** Simulated placement inside the room of the burning building, akin to wrapping system around a pipe or some other in-room anchor point.
- **Window Sill:** Attaching the hook directly to the window sill, relying on the tip of the hook to dig into the sill in order to secure the position.

#### Fuel Load

- Tests were run with three different dry wood fuel loads: small, medium and large.
- While these three loads were designed to burn at approximately the same maximum temperature, the larger the fuel load, the faster the max temperature was achieved and the longer it was sustained.
- Large load is the worst case fire scenario.

### Fire Test Results

Test	Hook	Rope	Anchor Location	Fuel Load	Max Temp at Anchor Point (°F)	Total Test Time (minutes)	Time at Failure (minutes)
1a	Crosby®	FireTech2™	Remote Anchor	Small	435°F	16:00	no failures
1b	Lightning GT™	FireTech2	Remote Anchor	Small	435°F	16:00	no failures
2a	Crosby	FireTech2	Remote Anchor	Small	405°F	12:15	no failures
2b	Lightning GT	FireTech2	Remote Anchor	Small	405°F	12:15	no failures
3a	Crosby	FireTech2	Window Sill	Small	535°F	16:00	no failures
3b	Lightning GT	FireTech2	Window Sill	Small	535°F	16:00	no failures
4a	Crosby	FireTech2	Window Sill	Small	525°F	16:30	no failures
4b	Lightning GT	FireTech2	Window Sill	Small	525°F	16:30	no failures
5a	Crosby	FireTech2	Remote Anchor	Medium	425°F	20:00	15:51
5b	Lightning GT	FireTech2	Remote Anchor	Medium	425°F	20:00	no failures
6a	Crosby	FireTech2	Remote Anchor	Medium	435°F	20:00	no failures
6b	Lightning GT	FireTech2	Remote Anchor	Medium	435°F	20:00	14:10
7a	Crosby	FireTech2	Window Sill	Medium	650°F	20:00	no failures
7b	Lightning GT	FireTech2	Window Sill	Medium	650°F	20:00	hook dislodged from sill @ 14:10
8a	Crosby	8 mm PER	Remote Anchor	Medium	635°F	16:00	9:10
8b	Lightning GT	8 mm PER	Window Sill	Medium	650°F	16:00	12:30
9a	Crosby	FireTech2	Remote Anchor	Large	465°F	15:30	12:30
9b	Lightning GT	FireTech2	Remote Anchor	Large	465°F	15:30	10:00

Firebox in use. Photo by Mike Forbes at ropecraft.org.



### Takeaways from this testing procedure

- No failures occurred prior to nine minutes during any test.
- Remote anchors failed sooner than sill anchors: they are exposed to more heat and direct flame impingement than at the sill.
- No Technora® ropes failed when the hook was anchored at the sill.
- Aluminum hooks can begin to twist in the remote anchor configuration; however, no hook failures occurred in this position.

Full hardware specs on p. 43

## Powerful and versatile complete rescue systems

A unique, multifunctional system, the AZTEK is a simple and versatile tool for mechanical advantage rigging. The system has numerous uses, including as an adjustable high directional for a belay line, pick-offs and aerial rescue, and for litter scoop rigging and attendant tether, among others. The opposite end of the rope functions as an individual edge restraint system utilizing the included travel restraint and screwlink. The AZTEK Omni Block pulleys keep loads oriented correctly when tensioned. The system is easily transported or swapped between users thanks to its accessible pouch-style carry case.

**Weight:** 3.8 lbs  
**MBS:** 8,093 lbs (NFPA - General version)

### Kit Includes:

- (2) AZTEK Omni Block swivel pulleys
- 50' of 8 mm Edge Restraint with sewn eye
- (2) 6 mm sewn ratchet prusiks
- (1) SafeD™ carabiner for connecting Edge Restraint to anchor
- 8 mm steel screwlink
- 6 mm Travel Restraint
- AZTEK carrying bag

### Sterling offers three connector options:

**AZTEK Elite:** 2 aluminum SafeD carabiners lighten the system for mountain rescue applications with an end-to-end strength of 6,295 lbs.

**AZTEK Elite NFPA-G:** 2 Sterling Steel autolock carabiners offer high strength and G-rated certification and end-to-end strength over 8,000 lbs.

**AZTEK Elite Tactical:** 2 black aluminum Hawk autolock carabiners match up with the black pulleys and sewn cord for military and SWAT operators.

System Certification NFPA 1983: General Use Auxiliary System (w/o carabiners)



(Upper) AZTEK with SuperStatic2™ and SafeD carabiners as part of a rescue litter system.  
 (Lower) AZTEK with WorkPro™ as part of a piggyback haul setup.

## Shown below: AZTEK NFPA-G



# PDQ™ System/Raise and Rescue Kit

Full hardware specs on p. 43

## Lightweight tower evacuation system

The PDQ is Sterling's lightweight evacuation system for use in all work-at-height environments. The PDQ descent-control device and the 6 mm XTEC™ heat-resistant Technora® rope form the core of this system whose total weight is under 10 lbs. Rated for a user-load of 310 lbs, the fully-assembled kit comes ready for deployment and its slim profile means it can be stored compactly and carried by each technician until needed.

**Weight:** 8.85 lbs  
**MBS:** 3,147 lbs

### System Includes:

- PDQ Device
- XTEC rope with sewn eye termination. Available in 100 M (328'), 120 M (394'), and custom lengths.
- (2) ASD w/ pin carabiners
- Waterproof storage bag with shoulder strap



Certified to ANSI Z359.4

*"We initially saw the need for a lightweight rescue and evacuation system that could be carried by individuals while working on wind turbines, where rescue is always a complicated maneuver. The PDQ gives our technicians the ability to react quickly with a lightweight easy-to-use system should an emergency arise."*

– Davide Sartoni, MISTRAS Ropeworks



(Clockwise from top) Tower worker descending with PDQ System. PDQ set up as progress capture in pick off raising system. PDQ device in autolock mode.



The addition of the Raise and Rescue Kit converts the PDQ to a mechanical advantage system that can be used for simple and efficient victim raising and multidirectional transfers.

## Kits and Systems

**ASD w/ pin**  
Aluminum D-shaped carabiner with a 3,600-lb gate and a threaded captive eye pin.  
**MBS: 6,744 lbs (major axis)**  
**NFPA 1983: Technical**  
**ANSI Z359**

**Optional Raise and Rescue Kit**

- (2) wire anchor slings
- 24" 11/16" Nylon Sling
- (4) Osprey™ oval autolock carabiners
- (2) Micro Pulleys

**Osprey AL Carabiner**  
Autolocking oval aluminum carabiners.  
**EN 12275**  
**MBS: 5,171 lbs**

**A waterproof, roll-top, low-profile storage bag** with shoulder strap.

**PDQ Descent Device**  
Autolocking, precision-machined aluminum device features an asymmetric cam with anti-panic capabilities.  
**ANSI Z359.4**

**XTEC™ Rope**  
This 6 mm cord is 100% Technora® in the sheath and core and is heat resistant over 900°F.

**Micro Pulleys**  
Compact, machined aluminum pulleys that work with ropes up to 7/16".  
**MBS: 5,395 lbs**  
**EN 12278**

## Search Kits

### Tools for high-hazard search situations

Search kits are an integral tool for fire departments performing large area search. The kits are available with either heat-resistant 9 mm RIT Response™ rope that is easy to find with gloved hands and packable, or with 7.5 mm SearchLite™ rope that features reflective tracers and a nylon/Technora® core. A large snaphook on one end allows for connection to substantial objects, while the small snaphook secures the rope to the bag.



#### Weights

RIT Response Kit: 10.6 lbs  
SearchLite Kit: 7.4 lbs

#### Kits include:

- 220' of rope (RIT Response or SearchLite). When distance knots are tied, this allows for a 200' working line.
- Locking, Double Action Aluminum Snaphook
- Swivel Snap
- Sterling Search Bag with quick release buckles, reflective trim, and side pockets.



SearchLite Kit



RIT Response Kit

## Pocket Hauler Kit

### Mechanical advantage in a compact package

Don't be fooled by the Pocket Hauler's compact appearance. With our low-stretch 8 mm Edge Restraint cord, this kit is ideal for light-duty rigging, tensioning lines, adjusting directionals, positioning, piggyback hauling systems or as a rescue system, and can be set up as a 4:1 or 5:1.

Weight: 3.4 lbs  
MBS: 4,946

#### Kit Includes:

- (2) SR Mini-Double pulleys
- 50' of 8 mm cord with sewn eye
- (2) Hawk™ autolock carabiners
- 6 mm sewn ratchet prusik
- 8 mm Screwlink
- Carrying bag



**Mini Pulleys**  
Machined aluminum pulleys are prusik-minding and provide efficient mechanical advantage.

MBS: 4,946 lbs  
EN 12278

## Pico™ Rescue Kit

Kits and Systems

### Ultra compact lifting tool

Built around our Pico Pulleys and TRC™ Cord, this little kit packs a big punch. As a 4:1 mechanical advantage system, it's ideal for tensioning directionals, pickoffs, and military applications.

#### Kit Includes:

- 15.5 M (50') 6 mm TRC Cord with sewn eye
- (2) Pico Double Pulleys
- (2) Osprey™ oval screwlock carabiners
- 5 mm TRC Prusik
- Pico bag

Weight: 2.0 lbs  
MBS: 3,597 lbs



**Pico™ Double Pulley**  
Ultralight (only 3.3 oz each) pulleys with a balanced side plate for either single or double use. Features sealed ball bearings and prusik-minding capabilities.


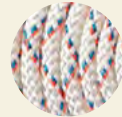
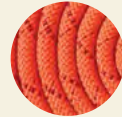
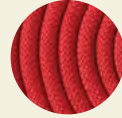


MBS: 6,744 lbs (major axis, in double configuration)

Low-elongation or static, ropes are a core element of any work-at-height system. We have been making the highest quality and innovative static ropes for decades.

The Sterling name has become synonymous with durability and reliability across multiple industries at all job sites. For us, making a new rope starts with understanding how exactly it will be used in a work-access or rescue scenario, what function it needs to perform, and how it will need to handle and integrate with other tools and hardware.

Armed with extensive feedback from expert technicians in the field, we can engineer a static rope that meets a very specific set of requirements. We currently produce **six lines of static ropes**, each designed, built and rigorously field tested to Sterling standards.

## Sterling Static Rope Overview

Rope Family	Materials	Diameter	Key Characteristics
<b>WorkPro™</b> 	Polyester/Nylon	7/16"	The smooth handling and perfectly-balanced elongation of a nylon core combined with the ruggedness of a polyester sheath.
<b>VerGo™</b> 	100% Polyester	1/2"	Specifically designed for hauling operations on tower jobs and features maximum strength with low stretch.
<b>HTP™</b> 	100% Polyester	9 mm, 3/8", 7/16", 1/2", 5/8"	Ultra-low stretch, resistance to the elements, great strength and durability in abusive conditions.
<b>SuperStatic2™</b> 	100% Nylon	3/8", 7/16", 1/2", 5/8"	Innovative sheath construction provides a smoother braid, reducing overall rope stiffness for ease of handling and gear compatibility, while maintaining strength and great durability.
<b>SafetyPro™</b> 	100% Nylon	9 mm, 10 mm, 10.5 mm, 11 mm	Carefully engineered kernmantle construction makes for a static work line with a small but important amount of stretch. Favored for rope access and rescue professionals.
<b>Tech Series</b> 	Technora®, Spectra® and Nylon	8 mm, 3/8", 7/16", 1/2"	Use of the aramid fiber Technora grants unparalleled heat and abrasion resistance for the most challenging and hazardous work environments.



### Innovation Firsts:

48-carrier static sheath construction

100% polyester static rope (HTP)

Introduction of AZTEK™ Elite system

Sewn and bound-loop prusiks

Aramid sheath PER rope

Aramid HollowBlock™ prusiks

100% Technora fire escape rope

Sewn Technora lanyards

Aluminum anchor hook with wire gate

New 7/16" WorkPro™, SafeD™ and Eagle™ Carabiners in SR Rig Plate.





Full specs on p. 38

**Our newest static rope:  
the ultimate work horse**

Our newest static rope benefits from our extensive experience working with mixed material ropes. The WorkPro uses a newly designed pre-steamed nylon core surrounded by a 32-carrier polyester sheath. This combination of fibers makes for a balanced elongation in the core and sheath so they share the load evenly—making the rope stronger than other 11 mm ropes of similar construction.



**7/16" WorkPro**

MBS: 8,092 lbs  
Elongation at 300 lbs: 3.0%  
150, 200, 300, 600, 660'  
5 colors

Features the abrasion resistance of HTP with a soft hand and energy absorption of a nylon rope. Designed for use by arborists, rope access technicians and the military.

NFPA 1983: Technical  
EN 1891: Type A

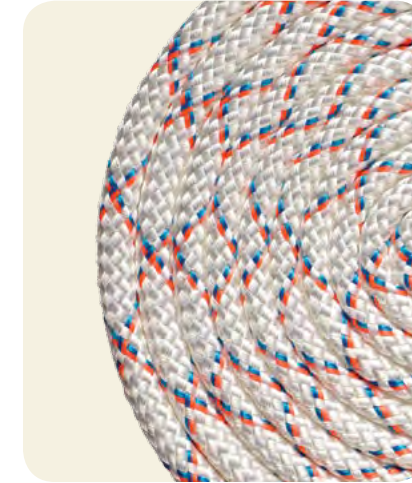
7/16" WorkPro integrates well with hardware.



Full specs on p. 38

**1/2" polyester load line  
for the tower industry**

Constructed with a braided core and an optimized braid in the sheath to maximize strength, durability and smooth handling. The VerGo is the ideal winch rope when transporting or hauling gear up and down a tower.



**1/2" VerGo**

ABS: 10,200 lbs  
Elongation at 300 lbs: 1.4%  
300, 600, 1,200'

A burly 1/2" polyester load line purpose-built for the tower industry.

1/2" VerGo is designed to work flawlessly on winches.

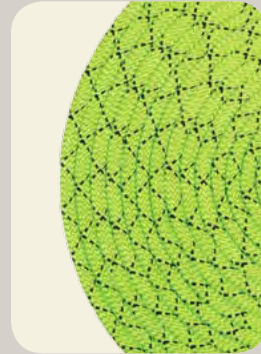


Full specs on p. 38

**Ultra-low stretch, strong and all-conditions durable**

When we first introduced the HTP lineup—the first 100% polyester static ropes on the market—the reaction could best be described as skeptical. There was no precedent for using it in high-impact, industrial rope applications. A few years later, HTP are some of the most sought-after static ropes available, for many rope access, rescue or tactical applications.

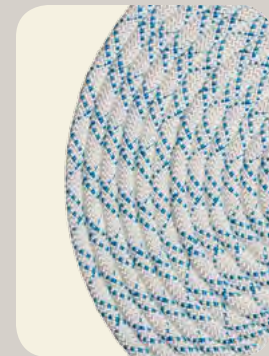
This popularity is because of the HTP's many advantageous qualities thanks not only to its polyester material, but also to the construction methodology we devised to extract the most from this material: an exacting core construction for strength and unique sheath for handling. The result is solid resistance to water, chemicals, UV and abrasion and great overall handling and gear compatibility.



**9 mm HTP**

MBS: 4,496 lbs  
Elongation at 300 lbs: 1.6%  
150, 200, 300, 600, 660'  
4 colors

High strength and low elongation in lightweight package.

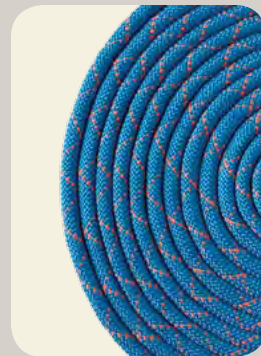


**3/8" HTP**

MBS: 5,979 lbs  
Elongation at 300 lbs: 1.4%  
150, 200, 300, 600, 660'  
9 colors

Good for search and rescue taglines, mountain rescue, and lightweight tensioned systems.

NFPA 1983: Technical

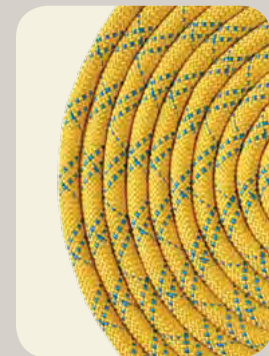


**7/16" HTP**

MBS: 6,856 lbs  
Elongation at 300 lbs: 2.5%  
150, 200, 300, 600, 660'  
10 colors

A multiuse rescue and rappel rope perfect for rope rescue, rope access and efficient ascending/descending.

NFPA 1983: Technical

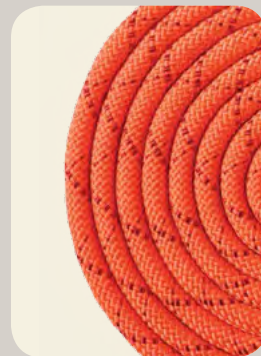


**1/2" HTP**

MBS: 9,081 lbs  
Elongation at 300 lbs: 0.9%  
150, 165, 200, 300, 600, 660'  
7 colors

The top choice for mainlines, haul systems and highline use.

NFPA 1983: General



**5/8" HTP**

MBS: 12,993 lbs  
Elongation at 300 lbs: 1.4%  
150, 165, 200, 300, 600, 660'  
4 colors

Engineered for serious strength and a perfect choice for industrial work and other big jobs. It is also compatible with many industrial fall protection devices.

NFPA 1983: General

5/8" HTP blue in hauling use.



## Ultra-smooth handling and gear integration

The SuperStatic2 line has been our go-to, all-round static rope for years. In this latest version, the core is engineered specifically to make the SuperStatic2 a more flexible and better-handling rope. It also made the ropes more round and consistently shaped from end to end. The SuperStatic2 ropes integrate smoothly and operate reliably with gear and hardware.

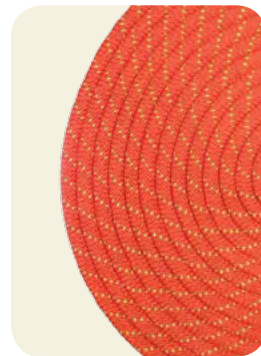


### 3/8" SuperStatic2

MBS: 5,170 lbs  
Elongation at 300 lbs: 3.6%  
150, 200, 300, 600, 660'  
5 colors

Lightweight technical rescue and rappel rope, compatible with most ascending and rappelling devices.

NFPA 1983: Technical

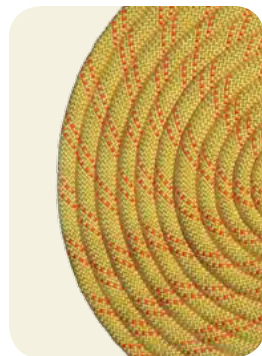


### 7/16" SuperStatic2

MBS: 6,519 lbs  
Elongation at 300 lbs: 3.9%  
150, 200, 300, 600, 660'  
6 colors

A do-it-all static rope that can withstand heavy abuse.

NFPA 1983: Technical



### 1/2" SuperStatic2

MBS: 9,284 lbs  
Elongation at 300 lbs: 2.0%  
150, 200, 300, 600, 660'  
6 colors

The most versatile general use rescue rope and the experienced professional's choice for main and belay lines.

NFPA 1983: General



### 5/8" SuperStatic2

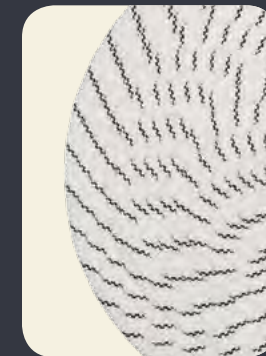
MBS: 12,364 lbs  
Elongation at 300 lbs: 2.0%  
150, 200, 300, 600, 660'  
4 colors

A heavy-duty rope engineered for serious lifting. It is a perfect choice as a haul line for tower construction work and other big jobs.

NFPA 1983: General

## An ideal balance of strength, elongation and handling

The SafetyPro static ropes are specifically designed to meet the needs of rope access personnel. These 100% nylon static ropes hit the sweet spot for durability, elongation and knot-tying ability: essential characteristics for work-at-height. The SafetyPro series is among the most popular tools for professional rope access technicians, tower, wind turbine, and industrial workers.



### 9 mm SafetyPro

MBS: 4,271 lbs  
Elongation (50-150 kg): 3.4%  
50, 61, 92, 183, 200 M  
4 colors

A lightweight construction that is ideal for rappel and tag lines, anchor systems or light rescue loads.

EN 1891: Type B

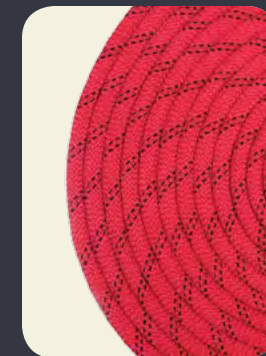


### 10 mm SafetyPro

MBS: 5,575 lbs  
Elongation (50-150 kg): 3.2%  
50, 61, 92, 183, 200 M  
4 colors

Originally designed for military and tactical applications, the balanced construction makes this the perfect rope for lightweight work at height.

EN 1891: Type A



### 10.5 mm SafetyPro

MBS: 6,114 lbs  
Elongation (50-150 kg): 3.5%  
50, 61, 92, 183, 200 M  
4 colors

Designed as a technical work and rescue line with excellent abrasion resistance, it is a proven option for rappel and backup lines.

EN 1891: Type A



### 11 mm SafetyPro

MBS: 7,306 lbs  
Elongation (50-150 kg): 3.0%  
50, 61, 92, 183, 200 M  
5 colors

A technical work and rescue line manufactured to meet the requirements of the most demanding rope access professionals.

EN 1891: Type A

# Tech Series Ropes

Full specs on p. 40

## Specialty ropes for hazardous environments

After a quarter century of building the highest quality ropes and life safety products, Sterling static ropes have developed a reputation for quality, reliability and ease-of-use. But above all, our ropes are known for durability. Despite the inherent ruggedness of all of our static ropes, some work environments are so hazardous and so challenging, that they require something special.

Enter our Tech Series: a line of static ropes that incorporate Technora®, an aramid fiber that is highly resistant to heat and cutting. We were the first to use Technora for life safety applications like fire ropes. It's a material that we've become experts at engineering into ropes and one that allows Sterling Tech ropes to go where other ropes simply can't.

## H3 Tech Ropes

With both core and sheath made of 100% Technora, the H3 models are the ultimate in heat-resistant rope technology.



### H3 Tech11™

Diameter: 7/16"  
MBS: 9,576 lbs  
Elongation at 300 lbs: 1.1%  
200, 600'  
2 colors

For high heat rope access and rescue scenarios, there's nothing more rugged or more capable.

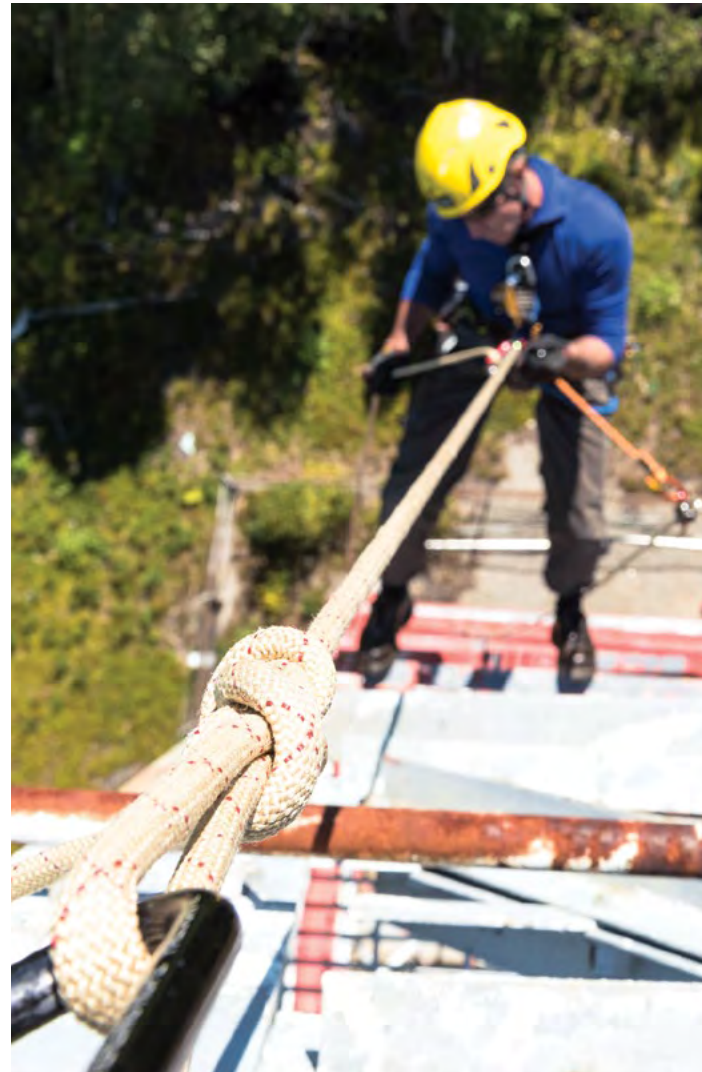


### H3 Tech125™

Diameter: 1/2"  
MBS: 10,116 lbs  
Elongation at 300 lbs: 1.0%  
200, 600'

A 100% Technora rope that is extremely durable, has great handling and is easy to use with descent control devices. For use in roof rescue and other fire operations that need heat and cut resistance.

NFPA 1983: General



H3 Tech11 used in a high-abrasion work access environment.

# Tech Ropes

Full specs on p. 40

Four models, each with unique constructions surrounded by a Technora® sheath for a balance of strength, elongation and increased heat and abrasion resistance.



### Tactical Response™

Diameter: 3/8"  
MBS: 6,744 lbs  
Elongation at 300 lbs: 3.9%  
150, 200, 300, 600, 660'

Low weight and high strength in a compact diameter that's readily compatible with climbing and rescue hardware. Ideal for mountain rescue and tactical scenarios.

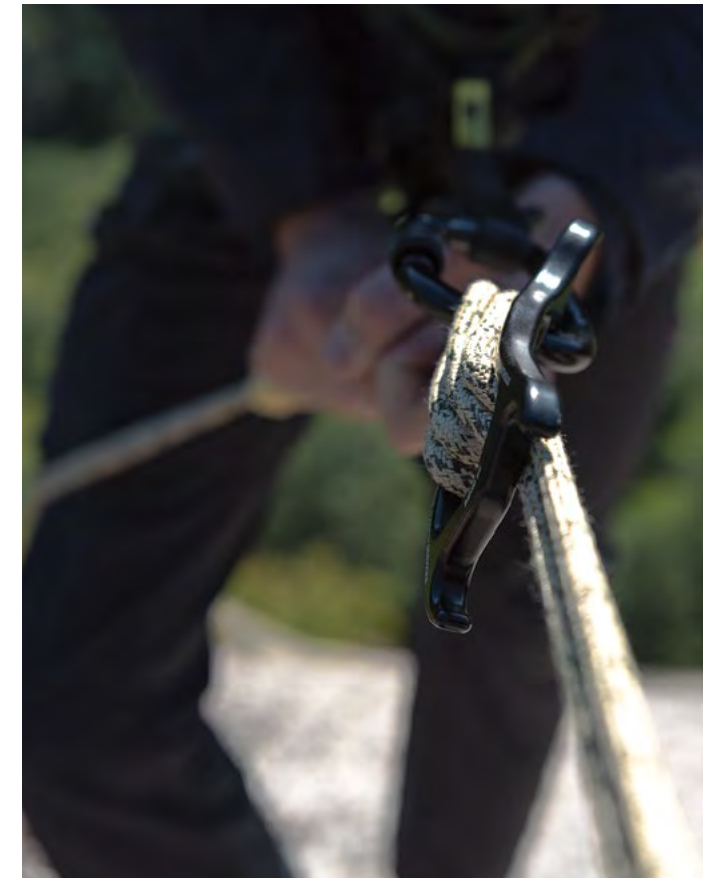
NFPA 1983: Technical  
EN 1891: Type B



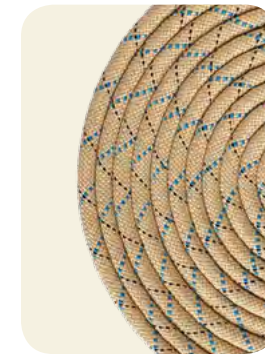
### NEW OpLux™

Diameter: 8 mm  
MBS: 5,440 lbs  
Elongation at 300 lbs: 3.3%  
100, 150, 200, 300, 660'

High-strength, cut-resistant Spectra® fibers in the core combined with a unique blended Technora sheath give the OpLux unmatched power in the most compact package.



OpLux used with ATS™ Device for tactical operations.



### Tech11™

Diameter: 7/16"  
MBS: 9,014 lbs  
Elongation at 300 lbs: 4.1%  
200, 660'  
2 colors

The only NFPA - General rated 11 mm rope. Tech 11 is a go-to for hazardous rope access situations, such as refineries or chemical plants, as well as general rescue use.

NFPA 1983: General



### Tech125™

Diameter: 1/2"  
MBS: 10,183 lbs  
Elongation at 300 lbs: 2.1%  
200, 660'

Extremely durable and incredibly strong. Designed with a heat-resistant sheath in a 1/2" size for use with standard rescue equipment.

## Putting the Tech Series through its paces

Sterling was first to use Technora fibers in high performing life safety rope. Our extensive use of Technora throughout our product line has given us unequalled expertise with this fiber. Our Tech Series ropes use Technora in innovative sheath constructions to provide maximum resistance to abrasion, cutting, chemicals and high heat. They are engineered to be ultra strong and durable, while also handling well.



Photo by Rope Access Technology.

## Heat Resistance

Environments with hot hazards, such as steam tracing pipes, can potentially be damaging to the lifelines used for access and rescue. No consensus standard exists for ropes in contact with such high heat hazards, so Sterling designed and built a specialized testing apparatus which would allow us to test ropes in contact with steel pipes at temperatures of over 700°F. Shown here is a sample of some of the results of this testing.\*

Ropes were wrapped 180° around a pipe heated to 700°F with a steady load of 2 kN applied and held to 10 minutes or until failure.

Rope Name	Materials (Sheath/Core)	Time (seconds)	Max Load (kN)	Residual ABS	Control ABS	% Strength Retained
HTP™	Polyester/Polyester	37	0.31	0	0	0
Tech11™	Technora/Nylon	600	2.0	13.14	44.94	29.24
H3 Tech11™	Technora/Technora	600	2.0	37.83	44.5	85

\*This testing is by no means definitive or conclusive. A thorough Job Hazard Analysis should be conducted before working in any environment where hot hazards exist. For further information, please contact us.



Photo by Reed Thorne.

## Arc Flash Testing

One of the most serious, and potentially hazardous phenomena in many work environments, arc flashes are sudden discharges of electrical energy. The H3 Tech11 and H3 Tech125 were developed specifically to survive arc flash occurrences.

**\*Note: Sterling products are NOT designed to protect workers against arc flash damage. Rather, we can only assure that our products themselves survive such events and, in doing so, retain strength required to meet lanyard and lifeline strength requirements.**



## Abrasion Resistance

For years we have known that the use of Technora® offered benefits in terms of strength and heat resistance. It was also known that the use of Technora fiber offered an increased resistance to cuts and abrasion damage, but we were not able to quantify that benefit. To answer that question, our engineering department devised the following test:

- A mass of 315 lbs was attached to the test rope.
- This rope was run over a 150 degree bend, which was fitted with a steel file at the bend.
- The other end was attached to our hydraulic tensile tester.
- The load was raised up, dragging the rope 40 cm (160 degree bend) across the file, then lowered back to the ground. This process was repeated, with the file being cleaned every cycle, until the core of the rope became visible.

We ran this test on a variety of ropes, but the benefits of the Technora fiber in the sheath were best shown on the following tests:

- Our **9 mm HTP™** (polyester sheath) went through 9 cycles before the core was exposed. A similar diameter rope, our **9 mm C-IV™**, which has a Technora sheath, sustained 14 cycles on average.
- Similarly, our **7/16" HTP** (polyester sheath) rope lasted an average of 15 cycles.
- The **Tech11™**, with a Technora sheath, went for more than 27 cycles before the core finally showed through. In high-abrasion environments, such as steel structures, this durability keeps the equipment in service longer, and the users safer.

## Abrasion Resistance Results

Rope Name	Number of Cycles Before Core Exposure
9 mm HTP	9
9 mm C-IV	14
7/16" HTP	15
Tech11	27



Tech11 Positioning Lanyard: Technora sheath provides additional abrasion resistance on sharp edges.

# Fire Escape Ropes

Full specs on p. 40

## Purpose-built for crucial moments

Unlike the rest of our products, we developed our Fire Escape Ropes with the hope that they never get used. But, if they are needed, it's our job to make sure they work flawlessly without question. Most of our Fire Escape Ropes use high performing aramid yarns, such as Technora® in unique, small diameter constructions to achieve resistance to abrasion, chemicals and extreme heat. We have also assured that they can be stored compactly and handled easily if the need should arise.

We hope you never have to use these products. But if you do, know that a split-second decision to deploy your rescue rope is backed up by countless hours of R&D, testing and US-made quality construction.

**FireTech™ was the fire rope chosen by FDNY and is considered the standard for all fire escape ropes.**



### EscapeTech™

Diameter: 7.5 mm  
MBS: 3,911 lbs  
Core/Sheath: Nylon/Technora  
40, 50, 200, 600'

The most compact certified escape rope available. The nylon core construction allows for easy packing into a bag or pocket and easy payout.

NFPA 1983: Fire Escape



### NEW FireTech2™

Diameter: 7.5 mm  
MBS: 5,732 lbs  
Core/Sheath: Technora/Technora  
40, 50, 150, 200, 300, 600'

An improved construction on the popular FireTech makes the FireTech2 slightly lighter weight and gives it a softer hand. Compatible with F4™ and new FCX™ descent devices.

NFPA 1983: Fire Escape

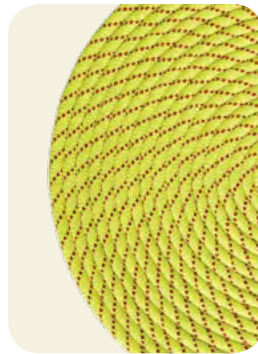


### SafeTech™

Diameter: 8.0 mm  
MBS: 4,383 lbs  
Core/Sheath: Nylon/Technora  
40, 50, 300, 600'

A Technora sheath is resistant to high heat, chemicals and abrasion, while the core provides strength, gear compatibility and better elongation to reduce anchor loads.

NFPA 1983: Fire Escape



### 8 mm PER

Diameter: 8.0 mm  
MBS: 3,484 lbs  
Core/Sheath: Nylon/Nylon  
40, 50, 150, 200, 300, 600'  
4 colors (including one reflective option)

A compact, lightweight and 100% nylon rope is a great economical option for escape operations. Also available in 8 mm PER SafetyGlo™ that features a reflective tracer in the sheath.

NFPA 1983: Escape

**NFPA 1983 Requirements for Escape Ropes:** Minimum tensile strength of 13.5 kN. Elongation of at least 1% at 10% of the MBS. Diameter no smaller than 7.5 mm and no larger than 9.5 mm. Sewn eyes shall have a minimum breaking strength of at least 85% of the strength of the rope, OR shall have an MBS of not less than 13.5 kN. Fiber cannot melt at less than 400°F.

**NFPA 1983:2012 Requirements for Fire Escape Ropes:** The ropes must hold 300 lbs for 5 minutes at 725°F and must hold for 30 seconds at 1112°F.



NEW FCX™ with FireTech2™ as part of an escape system.

# Search Ropes

Full specs on p. 41

## Designed for search; built to last

We know that different and challenging situations arise during fire operations. That's why Sterling was the first to use high heat resistant fibers such as Technora® and Twaron®, as well as to incorporate reflective yarns into the sheath. Our experience creating ropes with these specialty materials results in search lines that have optimal handling, high strength and great resistance to heat and abrasion.



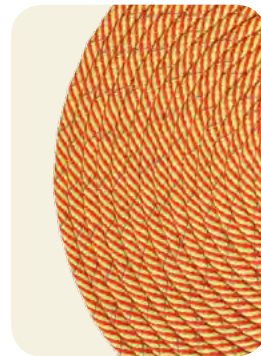
RIT Response



### RIT 900™

Diameter: 6.8 mm  
MBS: 4,136 lbs  
Core/Sheath: None/Twaron  
40, 50, 150, 200, 300, 600, 660'

Hollow braid construction packs easily into a pocket or bag, can withstand up to 932°F and also resists abrasion and chemical damage.



### SearchLite™

Diameter: 7.5 mm  
MBS: 3,012 lbs  
Core/Sheath: Nylon and Technora/Nylon  
50, 200, 220, 600'

Developed for FDNY and used for search operations, SearchLite's innovative construction uses reflective fibers to increase visibility. Technora and nylon blended core enhances strength while reducing the chance of failure due to melting.



### RIT Response™

Diameter: 9.0 mm  
MBS: 6,968 lbs  
Core/Sheath: Polyester/Twaron  
150, 200'

The flexibility of this heat-resistant rope facilitates packing and deployment, while the diameter allows it to be located and handled with gloved hands in low visibility conditions.

# Water Rescue Ropes

Full specs on p. 41

## Unique materials excel in wet environments

Swift water, ice and flooded environments present difficult challenges for rescue personnel. Our ropes perform in these harsh conditions with strength and optimal flotation. We manufacture our throwlines and water rescue ropes with the same precision and quality that we do with all of our life safety ropes. We developed these ropes using only the best quality and highest tenacity polypropylene, nylon and Spectra® fibers.



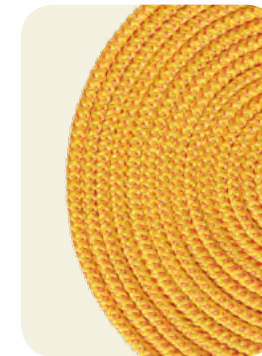
7/16" WaterLine



### UltraLine™

Diameters: 1/4" and 3/8"  
Core/Sheath: Spectra/Polypropylene  
75, 150, 200, 300, 600, 660'

Integrates a high strength, braided Spectra core with a polypropylene sheath for superior strength over standard float ropes. Maintains trouble-free handling characteristics and buoyancy.

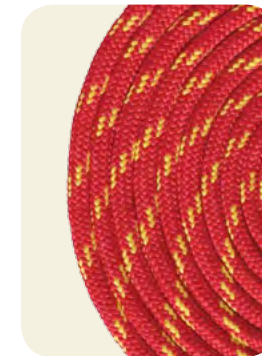


### GrabLine™

Diameter: 3/8"  
Core/Sheath: Nylon/Polypropylene  
75, 200, 300, 600, 660'

A "tread-like" sheath pattern gives both rescuer and victim extra gripping power while also providing buoyancy. The nylon core adds strength and keeps the rope flexible for throw bag storage and deployment.

NFPA 1983: Throwline



### WaterLine™

Diameters: 5/16", 3/8", 7/16", 1/2"  
Core/Sheath: Nylon/Polypropylene (5/16", 3/8"); Braided Polypropylene/Polypropylene (7/16", 1/2")  
75, 150, 200, 300, 600, 660'  
4 colors

A highly buoyant rope provides rescue personnel with a range of options to meet their specific needs. Ideal for swift water, flood, and ice rescue applications.

NFPA 1983: 3/8" Throwline

# Webbing

Light, flexible and incredibly strong, our webbing is available in several types and boasts the strength needed for all manner of work and rescue applications. We've invested greatly in our in-house sewing facility, which allows us to produce certified precision sewn webbing products that are strong and versatile.

## Sewn Webbing



### NEW Pickoff Strap

End-to-End MBS: 4,496 lbs  
Basket MBS: 8,992 lbs  
Length Range: 10-59"

Adjustable pickoff strap allows slack to be removed from system before transferring a load. Provides a durable anchor in two configurations: basket and straight line.



### Dyneema® Slings

MBS: 5,170 lbs  
Diameters: 10 mm, 12 mm  
10, 24, 30, 48"

Dyneema slings offer significant performance advantages over traditional runners. They are lightweight, have high cut resistance, are extremely strong, and naturally repel moisture.

EN 566



### Chain Reactor

MBS: 3,147 lbs  
Standard: 41" length  
Colors: Red, Neon Green, Blue or Black  
Long: 61.5" length (four additional loops)  
Colors: Red or Neon Green

Made from our 11/16" nylon webbing, these full-strength interlocked loops are safer alternatives to traditional daisy chains. The Pro version has a doubled tethered connection, while the Long version has four additional loops.



### Rabbit Runners

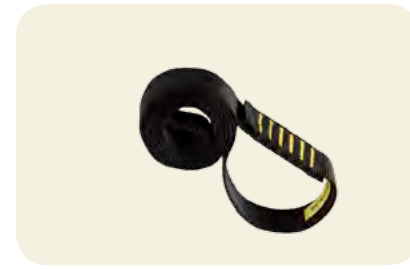
MBS: 3,147 lbs  
4, 6, 8'

Webbing with sewn eyes on each end for specialty rigging applications such as extending anchors. Rated for life-safety applications.

#### Dyneema Sling Colors:



Full specs on p. 42



### Nylon Slings

11/16" Tubular: 24, 30, 40"  
1" Tubular: 12, 24, 30, 36, 48"  
1" Flat/9800: 48, 72, 96, 120"  
Colors: various

Our nylon slings are offered in three different styles and diameters using precisely programmed tack-stitching to guarantee high quality and strength for a myriad of uses.



### BARC™

MBS: 6,182 lbs  
Red/Blue (103"), Yellow/Blue (60")

A multiuse, adjustable rigging chain made from our 1" 9800 nylon sewn webbing. When set up as an anchor, the BARC's versatility accommodates almost any job site scenario and can create multiple rigging points for lifting.

# Bulk Webbing

### 11/16" Tubular

MBS: 3,000 lbs  
300' spool  
24, 30, 48"

Premium nylon tubular webbing features high tensile strength in a narrower web. Great for use in slings.



### 1" Tubular Mil-Spec

MBS: 4,000 lbs  
30' web wheel and 300' spool

The standard in 1" tubular nylon webbing is favored for its versatility and use in slings, anchor systems, and hasty harnesses. Sterling's webbing offers exceptional abrasion resistance and excellent knotability.

Web Wheel Colors: Blue, Red, Yellow, Black

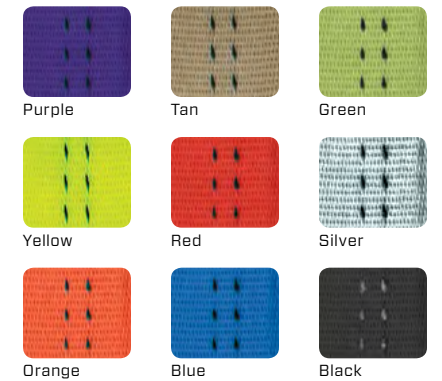


### 1" TechTape™ Tubular

MBS: 4,000 lbs  
30' web wheel and 300' spool

TechTape is our premium 1" nylon webbing and features a smooth dense weave for high strength, excellent handling and superior knotability.

Web Wheel Colors: Blue, Red, Yellow, Black



### 1" Type 18 Flat / 1" 9800 Flat

MBS: 6,000 / 9,800 lbs  
Type 18 300' spool, 9800 150' spool

Both the Type 18 and 9800 webbing are ultra high tensile webbing with maximum durability. Type 18 has a 6,000 lb MBS, and the 9800 has a 9,800 lb break strength.





Full specs on p. 42

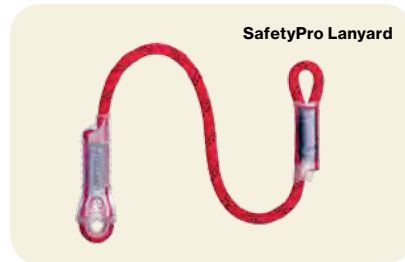
## Sewn Cords



### Tech11™ Lanyard

MBS: 5,418 lbs  
10' and 12' lengths

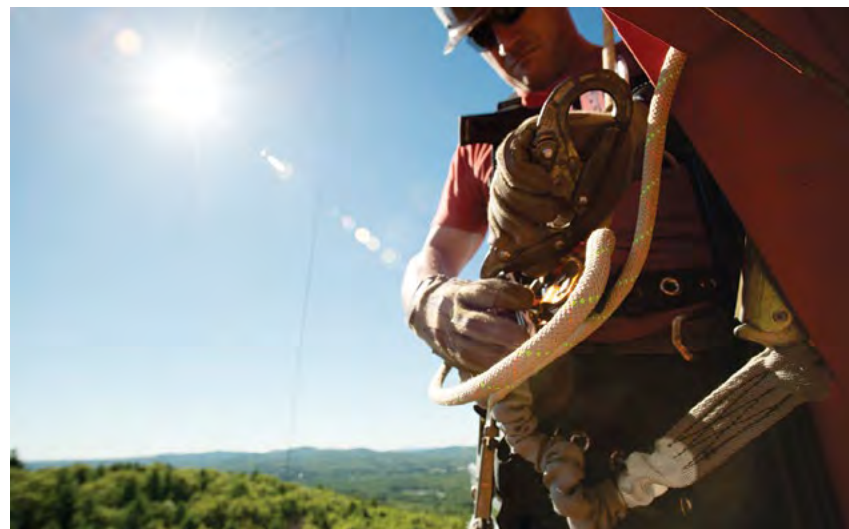
Rugged positioning lanyard that provides high abrasion and heat resistance. Features a Technora® sheath for durability and arc flash protection and a nylon core for smooth handling. Available with multiple connector options.



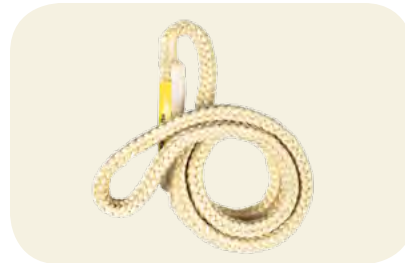
### Lanyards

0.6, 0.8, 1 M lengths  
3 versions available

Available in static and dynamic options, our Marathon, SafetyPro and Y-Knot lanyards allow for safe connections to rope access and positioning equipment.



Tech11 Lanyard for positioning on tower work.



### HollowBlock™

MBS: 3,147 lbs  
13.5 and 19" lengths

Used as a friction hitch or auto block and able to grab onto rope efficiently when used as a rappel backup on ropes 7 mm or larger. Our 6.8 mm HollowBlock's gripping ability comes from its hollow braid cord construction composed of strong, durable aramid fibers.



### 8 mm Bound Loop Prusik

MBS: 4,496 lbs  
16" and 22" lengths  
6 colors (see 8 mm cord on opposing page)

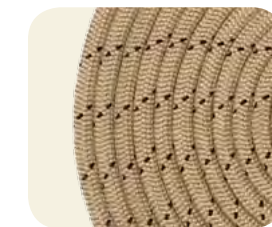
Provides progress capture, tandem prusik belay and optimal rope grab for rope rescue. Does away with bulky, time-consuming knots and is stronger with its sewn loop construction.

## Accessory and Prusik Cords

Our smaller, multi-use cords have come to be well-respected and sought-after in their own right. Accessory cords are designed and produced with the same construction methods and high quality yarns as our ropes. Many cords come in a variety of pre-cut lengths or spools for additional convenience. Our 6 mm - 9 mm cords are built with the right amount of softness, yet are durable for anchor building, prusik use and other life safety applications. The 8 mm has been specifically designed for optimum performance as a prusik, tie-down, or in sewn configurations.

1.5 mm	2 mm	2.75 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	9 mm	550 Paracord
Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Black/Yellow	Blue	Blue	Green	Blue	Blue	Blue	Blue	Blue	Blue	Blue
Blue	Red	Orange	Purple	Woodland Camo	Woodland Camo	Blue	Blue	Teal	Blue	Blue
Red	Olive Drab	Purple	Yellow	Orange	Orange	Desert Camo	Desert Camo	Red	Red	Olive Drab
	Yellow	Yellow	Olive Drab	Green	Red	Green	Woodland Camo	Purple	Yellow	Orange
				Yellow		Orange	Orange	Orange		
						Red	Yellow	Orange		
						Yellow		Orange		

## High Tenacity Cords



High Tenacity Cords used in PDQ™ and Pico™ systems: see pages 8 and 11.

Some situations require high strength from a small diameter cord. Sterling developed our High Tenacity Cord line to answer these requirements. We make five distinct High Tenacity Cord models: TRC™, XTEC™, V-TX™, TVAC™ and PowerCord™. Each features a unique construction utilizing a different set of materials; each tuned for a given set of conditions and recommended uses.

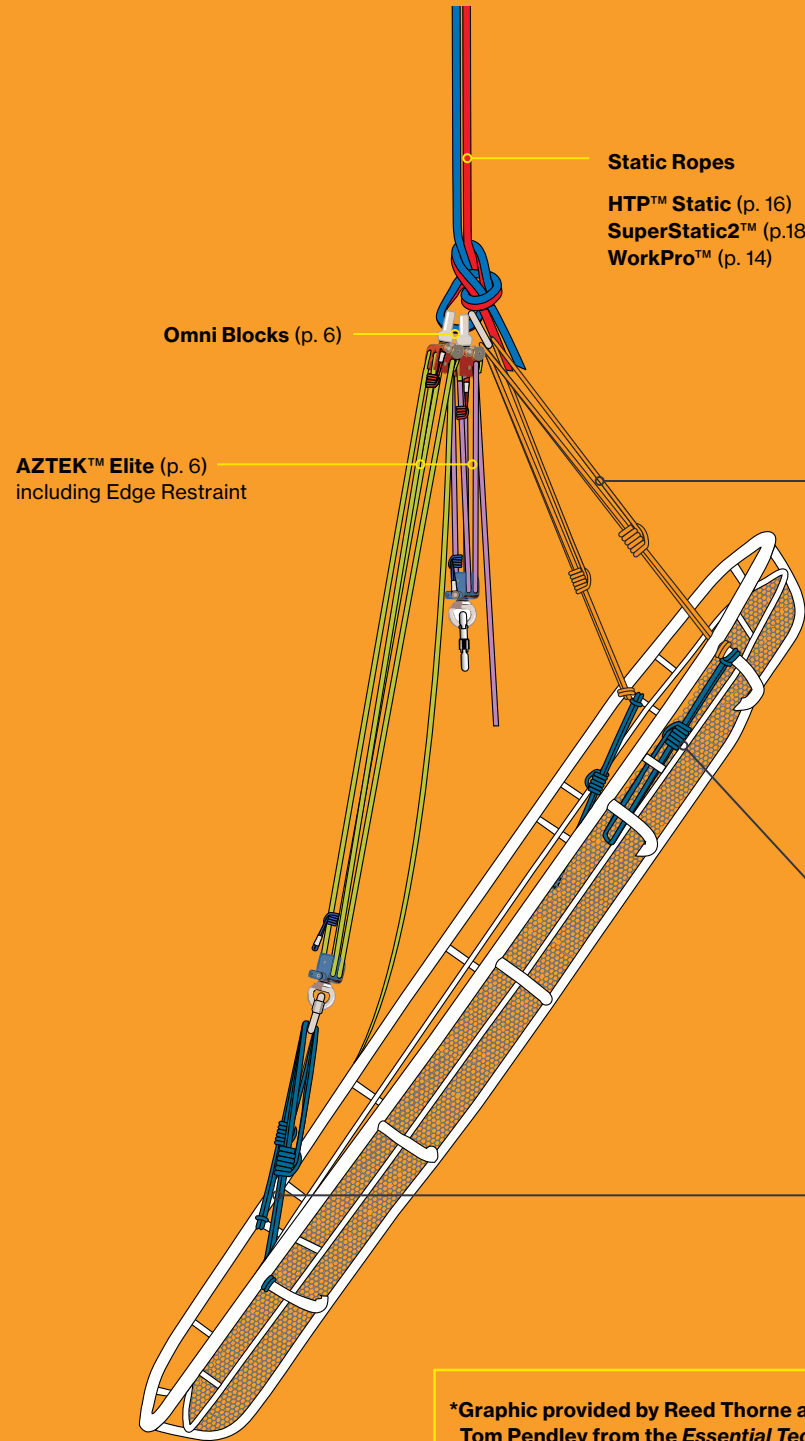
## GloCords™

A reflective tracer is braided into the sheath, making these cords vibrant when light hits.

2.75 mm	3 mm	4 mm	5 mm
Black	Black	Black	Black
Blue	Blue	Green	Black
Orange	Red		Orange
Yellow			

# Rescue Litter Rigging

## AZ Tri-Bridle Setup\*



\*Graphic provided by Reed Thorne and Tom Pendley from the *Essential Technical Rescue Field Operations Guide*. To learn more visit [ropesthatrescue.com](http://ropesthatrescue.com)



### 7 mm Head-End Litter Spider

MBS: 3,822 lbs

The Head-End Litter Spider is used in sets of two and attach from the head-end of the litter to the haul point. These cords are set-up as purcells to allow for adjustment on steep angle evacuations. 7 mm x 68" sewn in a bound loop.



### 7 mm Bearer Tie-In

MBS: 3,822 lbs

The Bearer Tie-In, also known as, Foot-End Spider is used in sets of two. They attach from the foot-end of the litter to the foot-end set-of-fours or haul point. These cords are set up as purcells to allow for adjustment on steep angle evacuations. Additional bearer tie-ins help attach the litter attendants for low-angle maneuvers. 7 mm x 34" sewn in a bound loop.

# Bags and Accessories



### NEW SafeGuard™

Length: 18"

The SafeGuard is designed for rope protection—a critical separator between rope and jagged edge that allows ropes to move freely while avoiding abrasion damage. Unique stacked layers of fabric prevent cutting on sharp edges. Removable plastic insert allows for smooth emergency lowering or can be removed for wrapping small diameter anchors.



### Rope Bags

Made of durable nylon, these rope bags come equipped with top handles, a bottom that's grommeted for drainage, a clear front pocket and adjustable shoulder straps on the medium and large sizes.

Size (Color): Small (Yellow), Medium (Orange), Large (Red)

Full specs on p. 39



### Rope Bag with Tarp

The Sterling rope bag is designed to hold a 60 M of 11.5 mm diameter rope and features a padded shoulder strap, pull tabs on each end for when you stuff it into a pack, and releasable buckles with adjustable tightening straps to keep your rope tight. Inside the bag there is a rope tarp that is held in place by Velcro and a small internal pocket to hold your keys, cell phone, etc.



### Rope Tarp Plus

Keep your rope clean with the Rope Tarp Plus. Constructed from a durable ripstop nylon, an oversized pocket allows you to slide in a flaked rope as well as shoes and a harness to easily transport your essentials to the work site.



### Sterling Baseball Cap



### Rope Wash

Proper care extends a rope's life expectancy and cleaning is a major component of care. Our biodegradable technical wash is available in a pre-packaged, 0.83 fl. oz. shot and provides enough to clean one rope.

Available as box of 20



### Sterling Brandanas

# Technical Specs

## Static Rope

### HTP™

9 mm HTP 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200 M



White Blue Neon Green



Black

<b>Diameter (mm)</b> 9.0	<b>MBS Rating (lbs)</b> 4,496	<b>Elongation at 300 lbs (%)</b> 1.6
<b>Weight (lbs/100')</b> 4.3	<b>MBS Rating (kN)</b> 20.0	<b>SWL (10:1) (lbs)</b> 449

7/16" HTP 150, 165, 200, 300, 600, 660' | 46, 50, 61, 92, 183, 200 M



Bicolor Blue Bicolor Neon Green Blue

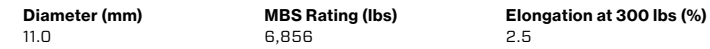


Neon Green Olive Drab Orange



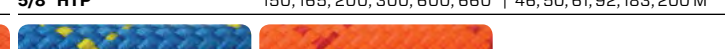
Red White Black Yellow

<b>Diameter (mm)</b> 10.0	<b>MBS Rating (lbs)</b> 5,979	<b>Elongation at 300 lbs (%)</b> 1.4
<b>Weight (lbs/100')</b> 5.3	<b>MBS Rating (kN)</b> 26.6	<b>SWL (10:1) (lbs)</b> 597



Black

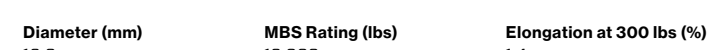
1/2" HTP 150, 165, 200, 300, 600, 660' | 46, 50, 61, 92, 183, 200, 366 M



Blue Red Orange



Neon Green Yellow White



White Black

<b>Diameter (mm)</b> 12.5	<b>MBS Rating (lbs)</b> 9,081	<b>Elongation at 300 lbs (%)</b> 0.9
<b>Weight (lbs/100')</b> 8.0	<b>MBS Rating (kN)</b> 40.4	<b>SWL (10:1) (lbs)</b> 908

Sterling HTP ropes are certified to NFPA 1983

3/8", 7/16" Technical  
1/2", 5/8" General

### VerGo™

NEW VerGo 300, 600, 1,200' | 92, 183, 366 M



White

<b>Diameter (mm)</b> 12.5	<b>ABS Rating (lbs)</b> 10,200	<b>Elongation at 300 lbs (%)</b> 1.4
<b>Weight (lbs/100')</b> 8.4	<b>ABS Rating (kN)</b> 45.4	<b>SWL (10:1) (lbs)</b> 950

### WorkPro™

NEW 7/16" WorkPro 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200' M



Red Blue Green

<b>Diameter (mm)</b> 11.0	<b>MBS Rating (lbs)</b> 8,092	<b>Elongation at 300 lbs (%)</b> 3.0
<b>Weight (lbs/100')</b> 5.6	<b>MBS Rating (kN)</b> 36.0	<b>Sheath Slippage (%)</b> 0.9

WorkPro Certified to EN 1891 Type A and NFPA 1983 - Technical

### SuperStatic2™

3/8" SuperStatic2 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200 M



Blue Red Olive Drab



White Black

<b>Diameter (mm)</b> 9.5	<b>MBS Rating (lbs)</b> 5,170	<b>Elongation at 300 lbs (%)</b> 3.6
<b>Weight (lbs/100')</b> 4.2	<b>MBS Rating (kN)</b> 23.0	<b>SWL (10:1) (lbs)</b> 517

7/16" SuperStatic2 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200 M



Blue Red Orange



White Yellow Black

<b>Diameter (mm)</b> 11.0	<b>MBS Rating (lbs)</b> 6,519	<b>Elongation at 300 lbs (%)</b> 3.9
<b>Weight (lbs/100')</b> 5.5	<b>MBS Rating (kN)</b> 29.0	<b>SWL (10:1) (lbs.)</b> 651

1/2" SuperStatic2 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200 M



Blue Red Orange



White Yellow Black

<b>Diameter (mm)</b> 12.5	<b>MBS Rating (lbs)</b> 9,284	<b>Elongation at 300 lbs (%)</b> 2.0
<b>Weight (lbs/100')</b> 6.8	<b>MBS Rating (kN)</b> 41.3	<b>SWL (10:1) (lbs)</b> 928

5/8" SuperStatic2 150, 200, 300, 600, 660' | 46, 61, 92, 183, 200 M



Blue Red



White Black

<b>Diameter (mm)</b> 16.0	<b>MBS Rating (lbs)</b> 12,364	<b>Elongation at 300 lbs (%)</b> 2.0
<b>Weight (lbs/100')</b> 10.7	<b>MBS Rating (kN)</b> 55.0	<b>SWL (10:1) (lbs)</b> 1,236

Sterling SuperStatic2 ropes are certified to NFPA 1983

3/8", 7/16" Technical  
1/2", 5/8" General

### SafetyPro™

9 mm SafetyPro 165, 200, 300, 600, 660' | 50, 61, 92, 183, 200 M



Blue Black



Red White

<b>Elongation at 300 lbs (%)</b> 1.9	<b>Sheath Slippage (%)</b> 0.0	<b>MBS Rating (lbs)</b> 4,271
<b>Weight (lbs/100')</b> 3.4	<b>Impact Force (kN @ FF .3)</b> 4.2	<b>MBS Rating (kN)</b> 19.0

10 mm SafetyPro 150, 200, 300, 600, 660' | 50, 61, 92, 183, 200 M



Blue Red Black



White

<b>Elongation at 300 lbs (%)</b> 4.5	<b>Sheath Slippage (%)</b> 0.3	<b>MBS Rating (lbs)</b> 5,575
<b>Weight (lbs/100')</b> 4.2	<b>Impact Force (kN @ FF .3)</b> 5.5	<b>MBS Rating (kN)</b> 24.8

10.5 mm SafetyPro 150, 200, 300, 600, 660' | 50, 61, 92, 183, 200 M



Blue Red Black



White

<b>Elongation at 300 lbs (%)</b> 2.8	<b>Sheath Slippage (%)</b> 0.8	<b>MBS Rating (lbs)</b> 6,114
<b>Weight (lbs/100')</b> 4.7	<b>Impact Force (kN @ FF .3)</b> 5.5	<b>MBS Rating (kN)</b> 27.2

11 mm SafetyPro 150, 200, 300, 600, 660' | 50, 61, 92, 183, 200 M



Blue Red Black











White Yellow

<b>Elongation at 300 lbs (%)</b> 3.3	<b>Sheath Slippage (%)</b> 0.6	<b>MBS Rating (lbs)</b> 7,306
<b>Weight (lbs/100')</b> 5.1	<b>Impact Force (kN @ FF .3)</b> 5.8	<b>MBS Rating (kN)</b> 32.5

Sterling SafetyPro ropes are certified to EN 1891

9 mm Type B  
10, 10.5, 11 mm Type A

## Tech Series

H3 Tech11™			H3 Tech125™		
200, 600'   61, 183 M			200, 600'   61, 183 M		
					
Black Tracer	Red Tracer		Natural Technora®		
<b>Diameter (mm)</b> 11.0	<b>MBS Rating (lbs)</b> 9,576	<b>Elongation at 300 lbs (%)</b> 1.1	<b>Diameter (mm)</b> 12.5	<b>MBS Rating (lbs)</b> 10,116	<b>Elongation at 300 lbs (%)</b> 1.0
<b>Weight (lbs/100')</b> 6.0	<b>MBS Rating (kN)</b> 42.6	<b>SWL (10:1) (lbs)</b> 957	<b>Weight (lbs/100')</b> 7.6	<b>MBS Rating (kN)</b> 45.0	<b>SWL (10:1) (lbs.)</b> 1011
Tech11™			Tech125™		
150, 200, 300, 600, 660'   46, 61, 92, 183, 200 M			150, 200, 300, 600, 660'   46, 61, 92, 183, 200 M		
					
Black/Blue	Neon Green/Orange		Black / Red Tracer		
<b>Diameter (mm)</b> 11.0	<b>MBS Rating (lbs)</b> 9,014	<b>Elongation at 300 lbs (%)</b> 4.1	<b>Diameter (mm)</b> 12.5	<b>MBS Rating (lbs)</b> 10,183	<b>Elongation at 300 lbs (%)</b> 2.1
<b>Weight (lbs/100')</b> 5.9	<b>MBS Rating (kN)</b> 40.1	<b>SWL (10:1) (lbs.)</b> 901	<b>Weight (lbs/100')</b> 7.0	<b>MBS Rating (kN)</b> 45.3	<b>SWL (10:1) (lbs)</b> 1,018
Tactical Response™			NEW OpLux™		
150, 200, 300, 600, 660'   46, 61, 92, 183, 200 M			100, 150, 200, 300, 660'   30, 46, 61, 92, 200 M		
					
Natural Technora			Natural Technora / Black		
<b>Diameter (mm)</b> 9.5	<b>MBS Rating (lbs)</b> 6,744	<b>Elongation at 300 lbs (%)</b> 3.9	<b>Diameter (mm)</b> 8.0	<b>MBS Rating (lbs)</b> 5,440	<b>Elongation at 300 lbs (%)</b> 3.3
<b>Weight (lbs/100')</b> 4.2	<b>MBS Rating (kN)</b> 30.0	<b>SWL (10:1) (lbs)</b> 674	<b>Weight (lbs/100')</b> 2.8	<b>MBS Rating (kN)</b> 24.2	<b>SWL (10:1) (lbs)</b> 544

Sterling H3 Tech125, Tech11 and Tactical Response ropes are certified to **NFPA 1983**

Tactical Response  
Tech11  
H3 Tech125

**Technical, EN 1891: Type B**  
**General**  
**General**

## Fire Escape Ropes




FireTech2™			SafeTech™		
40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 M			40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 M		
					
Natural Technora			Red Tracer		
<b>Diameter (mm)</b> 7.5	<b>MBS Rating (lbs)</b> 5,889	<b>Elongation at 300 lbs (%)</b> 1.5	<b>Diameter (mm)</b> 8.0	<b>MBS Rating (lbs)</b> 4,383	<b>Elongation at 300 lbs (%)</b> 6.8
<b>Weight (lbs/100')</b> 4.2	<b>MBS Rating (kN)</b> 26.2	<b>SWL (10:1) (lbs)</b> 588	<b>Weight (lbs/100')</b> 2.8	<b>MBS Rating (kN)</b> 19.5	<b>SWL (10:1) (lbs)</b> 438
EscapeTech™			8 mm PER		
40, 50, 200, 600'   12, 15.5, 61, 183 M			40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 M		
					
Black / Red Tracer			Orange	SafetyGlo™ Yellow	Black
<b>Diameter (mm)</b> 7.5	<b>MBS Rating (lbs)</b> 3,911	<b>Elongation at 300 lbs (%)</b> 4.4			
<b>Weight (lbs/100')</b> 2.8	<b>MBS Rating (kN)</b> 17.4	<b>SWL (10:1) (lbs)</b> 391	Yellow		
			<b>Diameter (mm)</b> 8.0	<b>MBS Rating (lbs)</b> 3,484	<b>Elongation at 300 lbs (%)</b> 5.3
			<b>Weight (lbs/100')</b> 2.9	<b>MBS Rating (kN)</b> 15.5	<b>SWL (10:1) (lbs)</b> 348

Sterling Escape ropes are certified to **NFPA 1983**

FireTech2 (pending)  
EscapeTech  
SafeTech  
8 mm PER

**Fire Escape**  
**Fire Escape**  
**Fire Escape**  
**Escape**

## Search Ropes

RIT 900™			SearchLite™		
39, 50, 150, 200, 300, 600, 660'   12, 15.5, 46, 61, 92, 183, 200 M			50, 200, 220'   15.5, 61, 67 M		
					
Natural Twaron®			Yellow		
<b>Diameter (mm)</b> 6.8	<b>MBS Rating (lbs)</b> 4,136	<b>Elongation at 300 lbs (%)</b> 2.6	<b>Diameter (mm)</b> 7.5	<b>MBS Rating (lbs)</b> 3,012	<b>Elongation at 300 lbs (%)</b> 2.4
<b>Weight (lbs/100')</b> 1.8	<b>MBS Rating (kN)</b> 18.4	<b>SWL (10:1) (lbs.)</b> 413	<b>Weight (lbs/100')</b> 2.2	<b>MBS Rating (kN)</b> 13.4	<b>SWL (10:1) (lbs)</b> 301
RIT Response™					
150, 200'   46, 61 M					
					
Black / Orange Tracer					
<b>Diameter (mm)</b> 9.0	<b>MBS Rating (lbs)</b> 6,968	<b>Elongation at 300 lbs (%)</b> 1.9			
<b>Weight (lbs/100')</b> 4.2	<b>MBS Rating (kN)</b> 31.0	<b>SWL (10:1) (lbs)</b> 696			

## Water Rescue Ropes

WaterLine™			GrabLine™		
75, 150, 200, 300, 600, 660'   23, 46, 61, 92, 183, 200 M			75, 300, 600, 660'   23, 92, 183, 200 M		
					
3/8" (Red + Yellow Tracer)	3/8" (Yellow + Red Tracer)	5/16" (Yellow + Blue Tracer)	Yellow + Orange		
					
7/16" (Red + Yellow Tracer)	1/2" (Yellow + Red Tracer)	1/2" (Red/Yellow)	3/8" Grabline Specs		
5/16" Waterline Specs			UltraLine™		
<b>Diameter (mm)</b> 8.0	<b>MBS Rating (lbs)</b> 1,596	<b>Elongation at 300 lbs (%)</b> 7.0	75, 150, 200, 300, 600, 660'   23, 46, 61, 92, 183, 200 M		
<b>Weight (lbs/100')</b> 2.1	<b>MBS Rating (kN)</b> 7.1	<b>SWL (10:1) (lbs)</b> 159			
3/8" Waterline Specs			1/4" UltraLine Specs		
<b>Diameter (mm)</b> 9.5	<b>MBS Rating (lbs)</b> 3,416	<b>Elongation at 300 lbs (%)</b> 4.2			
<b>Weight (lbs/100')</b> 3.3	<b>MBS Rating (kN)</b> 15.2	<b>SWL (10:1) (lbs)</b> 341	1/4" (Yellow + Blue Tracer)	3/8" (Yellow + Red Tracer)	
7/16" Waterline Specs			1/4" UltraLine Specs		
<b>Diameter (mm)</b> 11.0	<b>MBS Rating (lbs)</b> 4,406	<b>Elongation at 300 lbs (%)</b> 2.6	<b>Diameter (mm)</b> 6.5		
<b>Weight (lbs/100')</b> 4.3	<b>MBS Rating (kN)</b> 19.6	<b>SWL (10:1) (lbs)</b> 440	<b>Weight (lbs/100')</b> 1.3		
1/2" Waterline Specs			<b>MBS Rating (lbs)</b> 2,495		
<b>Diameter (mm)</b> 12.5	<b>MBS Rating (lbs)</b> 5,754	<b>Elongation at 300 lbs (%)</b> 1.8	<b>Elongation at 300 lbs (%)</b> 1.4		
<b>Weight (lbs/100')</b> 5.2	<b>MBS Rating (kN)</b> 25.6	<b>SWL (10:1) (lbs)</b> 575	<b>Weight (lbs/100')</b> 11.1		
			<b>MBS Rating (kN)</b> 11.1		
			<b>SWL (10:1) (lbs)</b> 249		
			3/8" UltraLine Specs		
			<b>Diameter (mm)</b> 9.5		
			<b>MBS Rating (lbs)</b> 5,237		
			<b>Elongation at 300 lbs (%)</b> 1.2		
			<b>Weight (lbs/100')</b> 2.6		
			<b>MBS Rating (kN)</b> 23.3		
			<b>SWL (10:1) (lbs)</b> 523		

Sterling WaterLine and GrabLine ropes are certified to **NFPA 1983**

3/8" WaterLine  
3/8" GrabLine

**Throwline**  
**Throwline**

### High Tenacity Cord

Name/Diameter	MBS (lbs)	(kN)	CE EN 564	Fibers (core/sheath)
5.4 mm V-TX Cord™	3,372	15.0	No	Dyneema®/ Polyester
5.9 mm PowerCord™	4,428	19.7	Yes	Technora®/ Nylon
6 mm XTEC™	4,721	21.0	No	Technora/Technora
6 mm TRC™	3,484	15.5	No	Nylon/ Technora
6.8 mm TVAC™	3,619	16.1	No	Nylon/ Technora

### Sewn Cord

Name/Diameter	MBS (lbs)	(kN)
6 mm Purcell	2,810	12.5
HollowBlock™	3,147	14.0
6 mm AutoBlock	2,810	12.5
7 mm Sewn Cordelette	3,822	17.0
8 mm Bound Loop Prusik	5,418	24.1
7 mm Bearer Tie-In	3,822	17.0
7 mm Head-End Litter Spider	3,822	17.0

### Accessory/Prusik Cord (includes GloCords)

Name/Diameter	MBS (lbs)	(kN)	CE EN 564
1.5 mm	118	0.5	No
2 mm	225	1.0	No
2.75 mm	270	1.2	No
550 Cord	550*	2.4	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,169	5.2	Yes
6 mm	1,843	8.2	Yes
7 mm	2,787	12.4	Yes
8 mm	3,506	15.6	Yes
9 mm	3,102	13.8	No

\*Average, not minimum

### Sewn Slings

Name	MBS (lbs)	(kN)	Lengths Available (in)	CE EN 566
10 mm Dyneema® sling	5,170	23	24, 48	Yes
12 mm Dyneema sling	5,170	23	10, 24, 30, 48	Yes
11/16" Nylon sling	5,170	23	12, 24, 30, 48	Yes
1" Tubular nylon sling	5,170	23	12, 24, 36, 48	Yes
1" Flat nylon sling	11,240	50	48, 72, 96, 120	No

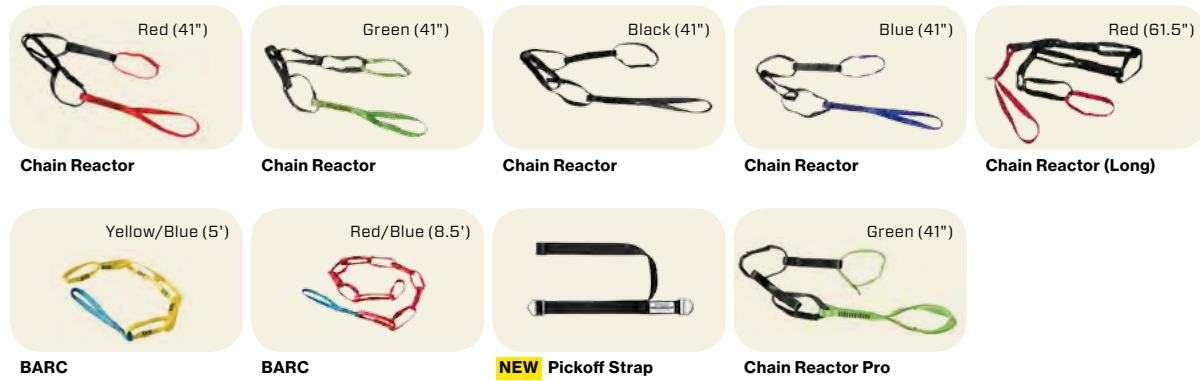
### Sewn Webbing

Name	MBS (lbs)	(kN)
Pickoff Strap	4,496	20.0
Chain Reactor™	3,147	14.0
BARC™	6,182	27.5
1" 9800 Rabbit Runner	8,093	36.0

### Bulk Webbing

Name/Diameter	MBS (lbs)	(kN)
11/16" Tubular	3,000	13.3
1" Mil-Spec Tubular	4,000	17.8
1" Tech Tape Tubular	4,000	17.8
1" Type 18 Flat	6,000	26.7
1" Type 9800 Flat	9,800	43.6

### Webbing



### Carabiners



### Rappel and Rigging



### Sewn Eye

Name/Diameter	MBS (lbs)	(kN)
6 mm XTEC™	3,147	14.0
6 mm TRC™	3,147	14.0
6.8 mm TVAC™	2,922	13.0
7 mm ACC	2,473	11.0
8 mm PER	3,147	14.0
9 mm ACC	2,922	13.0
3/8" SuperStatic2™	5,013	22.3
7/16" SuperStatic2	5,845	26.0
1/2" SuperStatic2	7,913	35.2
5/8" SuperStatic2	10,521	46.8
9 mm HTP™	4,226	18.8
3/8" HTP	5,328	23.7
7/16" HTP	5,845	26.0
1/2" HTP	7,823	34.8
5/8" HTP	11,221	49.9
9 mm SafetyPro™	3,372	15.0
10 mm SafetyPro	5,170	23.0
10.5 mm SafetyPro	5,418	24.1
11 mm SafetyPro	5,418	24.1
RIT 900™	3,035	13.5
RIT Response™	3,147	14.0
FireTech™	3,147	14.0
EscapeTech™	3,147	14.0
SafeTech™	3,147	14.0
Marathon™ Lanyard	3,822	17.0
Tech1™	5,957	26.5
TriTech™	5,418	24.1
Y-Knot™ Lanyard	5,170	23.0

### Hooks

Name	MBS (lbs)	NFPA 1983
Lightning Hook	3,035	Yes
Lightning GT Hook	3,035	Yes
Crosby Hook	4,945	Yes

### Lanyards and Fliplines

Name	MBS (lbs)	(kN)
Tech11 Flipline	5,418	24.1
TriTech Flipline	5,418	24.1
Y-Knot Lanyard	5,170	23.0
SafetyPro Lanyard	5,170	23.0
5 mm TRC Prusik	2,473	11.0
Marathon Lanyard	3,822	17.0

### Rope Bags

Name	Volume (L)	Rope Capacity
Small	17.0	200' (of 3/8" dia.)
Medium	31.0	200' (of 1/2" dia.)
Large	45.0	400' (of 1/2" dia.)
Pico	1.5	50' TRC, two Pico Pulleys, two carabiners

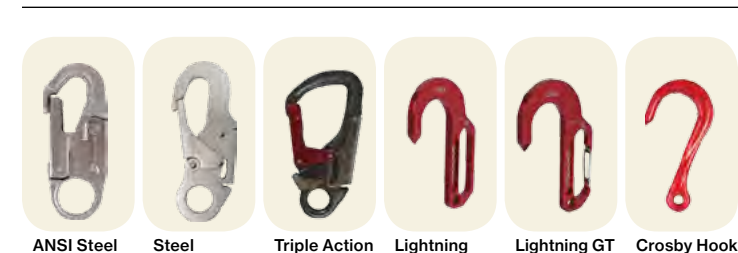
### Pulleys

Name	End-to-End MBS (lbs)	Sheave MBS (lbs)	Max Diameter (in)	NFPA 1983	CE EN 12278	Descent Control and Rigging Name	MBS (lbs)	NFPA 1983
AZTEK™ Omni Block	8,093	2,023	5/16	No	Yes	ATS™ Device	5,171	No
Micro	5,395	2,698	7/16	No	Yes	SR Swivel	8,093	Yes
SR MSP	3,822	1,911	7/16	No	Yes	SR R8™	4,945	No
SR MDP	4,946	1,236	7/16	No	Yes	FCX	3,035	Yes
SR PMP	8,093	4,047	1/2	Yes	No	F4	3,035	Yes
SR PMP2	9,892	2,473	1/2	Yes	No	F3	3,035	No
SR Rescue Pulley	7,194	3,597	1/2	Yes	No	F3-S	3,035	No
Pico™ Double Pulley	--	--	11/32	No	No	Rig Plate	8,093	Yes
Single Configuration	4,496	2,248						
Double Configuration	6,744	1,686						

### Pulleys



### Hooks



### Descent Devices



### Carabiners

Name	Major Axis (lbs)	Minor Axis (lbs)	Open Gate (lbs)	NFPA 1983	CE EN 12275
ASD w/ pin*	6,744	3,597	2,023	Yes	No
Eagle AL	5,620	1,574	1,574	No	Yes
Eagle SL	5,620	1,574	1,574	No	Yes
Falcon AL	5,620	1,574	1,574	No	Yes
Falcon ALT	5,620	1,574	1,574	No	Yes
Falcon SL	5,620	1,574	1,574	No	Yes
Falcon SLT	5,620	1,574	1,574	No	Yes
Hawk AL	6,295	1,574	1,574	No	Yes
Hawk SL	6,295	1,574	1,574	No	Yes
Osprey AL	5,171	1,574	1,349	No	Yes
Osprey SL	5,171	1,574	1,349	No	Yes
SR Steel AL**	10,116	3,597	4,047	Yes	Yes
SR Steel SL	10,116	3,372	4,047	Yes	No
SafeD TL	6,295	2,473	2,023	Yes	No
SafeD AL	6,295	2,473	2,023	Yes	No
SR NLD	6,519	2,248	2,023	No	No

\* ASD w/ pin meets ANSI Z359.12  
\*\* SR Steel AL also meets ANSI Z359.12

## Certifications

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It's important to purchase your life-safety equipment from respected and certified manufacturers. Part of understanding this significance is knowing whether products are certified, what the certifications mean and how they are applied to each product. As an ISO 9001 Company, Sterling is proud to offer products that are 3rd party tested and meet CE, NFPA, and/or ANSI Standards on life safety equipment.

- **EN 1891** certifies personal protective equipment for the prevention of falls from a height; specifically low-stretch kernmantle ropes for climbing/access lines. Manufacturing to the CE standard ensures products meet certain quality criteria for work at height.
- **ANSI Z359** is the American National Standard Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components. The standard addresses the variety of equipment being developed in the rapidly growing field of Fall Protection.
- **NFPA 1983** is the National Fire Protection Association's "Standard for Life-Safety Rope and Equipment for Emergency Service." This standard requires that a manufacturer is certified to ISO 9001 and specifies performance, labeling, user instruction and test method criteria for rope, connectors, descent devices, anchors and systems. Third party testing and certification of our product to this standard ensure that our manufacturing and quality control processes deliver products and systems that work well in technical rope and life-safety applications. Look for certifications at UL's Certification Online Directory at [ul.com/database](http://ul.com/database)
- **QSLM** is not a standard, but rather a qualification program that incorporates best industry practices based on ISO 9001 certification to pre-qualify manufacturers to supply certain items to fulfill military contracts. Sterling is a QSLM vendor to the US Government.

## Trademarks

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### Sterling is a certified ISO 9001 company.

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Sterling Rope is a certified ISO 9001 company and all of our quality control systems are third party audited to the standards we identify. Sterling maintains a rigorous in-house testing program to ensure that all current production meets the standards we publish. All minimum break strength (MBS) numbers listed here are a 3-Sigma MBS test results or are listed at the corresponding standard's minimum requirement. A 3-sigma MBS is based on a statistical analysis of the breaking strengths of a product and is reported at 3 standard deviations below the average breaking strength.

Safe Working Load (SWL) is the designated maximum working load for a piece of equipment or system based off a predetermined safety margin and the equipment's minimum breaking strength. Agencies and/or users should establish their own SWL guidelines for individual components and for rigged systems.

The specifications listed here are believed to be correct at time of printing. We reserve the right to make modifications or corrections. For the most up-to-date technical specifications please contact us or visit [sterlingrope.com](http://sterlingrope.com)

## Warning

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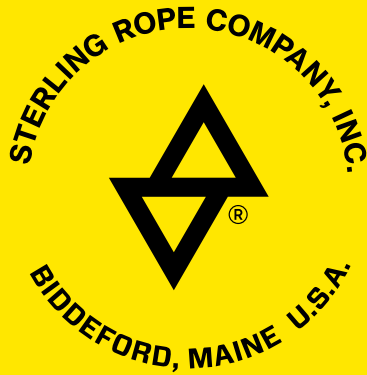
High angle operations, fire rescue and technical rope work are potentially hazardous activities and cannot be made safe. Any person using Sterling equipment in any manner is personally responsible for learning the proper techniques involved, and assumes all risks and accepts full and complete responsibility for any and all damages or injuries of any kind, including death, which may result from misuse of any Sterling equipment.

### Sterling Rope is a proud supporter of the following charitable and professional organizations:

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National Fallen Firefighters Foundation  
Lt. Joseph P. DiBernardo Foundation  
Mountain Rescue Association (MRA)  
Society of Professional Rope Access Technicians (SPRAT)  
American Wind Energy Association (AWEA)  
National Association of Tower Erectors (NATE)  
Industrial Rope Access Trade Association (IRATA)  
Fraternal Order of Leatherheads Society (FOOLS)  
Veterans Expeditions

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#### **Our Commitment to You**

We guarantee our products to be free of defects and stand firmly behind the excellence of our products' design, engineering and fabrication. When used responsibly and properly, in normal and recommended conditions, Sterling products will endure, perform and wear up to world-class standards. However, no rope lasts forever. Climbing, technical work and fire exposes ropes to abrasion, fatigue, sunlight, heat and constant loading. Severe falls, lack of protection over an edge, exposure to chemicals, excessive temperatures or improper use will shorten the lifespan of any rope. These scenarios stress the importance of checking and protecting your rope. Sterling reserves the right to inspect your rope before replacing it or refunding your money. We are committed to supporting you in your climbing or work endeavors and to maximizing your overall experience with each Sterling product through the best possible product quality and customer service.