Making safety our priority for life

The power to protect your world.
Falls to a lower level are one of the top four leading causes of death at work in the U.S.* Nobody understands the need for safety more than 3M. For more than 40 years, we’ve been developing personal safety protection products for global use across multiple industries. Our innovation, ambition and drive toward excellence have made us an industry leader in safety. When it comes to fall protection, 3M products have been researched, designed and developed to provide safe and secure solutions for those who work at height. When you put yourself at height, put yourself in the hands of 3M.

The demands of your job put you at risk — every day.

Even the most careful and focused worker is subject to the kind of danger that could change a life forever. At 3M, the demand of our job is to help make sure your safety precautions meet the highest standards. That’s why we’ve made it simple to equip your workers with the best in fall protection. Our fall protection products have been thoroughly researched, designed, developed and tested. We not only help provide you with safe and secure solutions for your workers, we give you the confidence to get the job done.

Yet fall protection isn’t just about having the best equipment — it’s also about using the equipment properly. Along with our full line of 3M™ Fall Protection products designed for seamless integration, we offer training classes and other tools to help ensure proper equipment and implementation.

Providing the most dependable fall protection support for you and your workers isn’t just a goal, it’s a 3M mission.

TRAINING AND SUPPORT

In accordance with the requirements of OSHA, employers are responsible for ensuring all employees are properly trained to safely use the appropriate fall protection system and its components. At 3M, we offer training classes and tools to help promote safety on every work site. For registration and course information requests, email 3MFallProtectionTraining@mmm.com.

On-Site Demonstrations

Using our fall protection demonstration drop trailers, the 3M team comes directly to you, ready to emphasize the importance of using compliant fall arrest equipment to ensure top-line education and results. The goal is to make it easy for you to help enhance safety awareness for large numbers of workers — and to feel confident that crucial information has been absorbed.
Effective fall protection is more than one product — it’s a team of products working together.

FALL PROTECTION IS AS EASY AS A, B, C & D
The first four letters of the alphabet help us understand the components of fall protection. A is for anchorage, B is for body support, C is the connector that joins the two. D stands for the descent and rescue plan that must be on-site for each job.

B BODY SUPPORT provides a personal connection point and distributes fall force across the entire body.

Full Body Harnesses are used to distribute fall arrest forces across the shoulders, upper thighs, chest, and pelvis. They feature a center back fall arrest attachment (dorsal D-ring) for clipping to the fall arrest connector and may have other D-rings for use in worker positioning, travel restraint, retrieval or ladder climbing. They are the only form of bodywear acceptable for fall arrest and should be selected based on the job task as well as the work environment.

Body Belts circle the waist and are used for worker positioning and travel restraint. While they are used in conjunction with a full body harness, they must NEVER be used for personal fall arrest.

D DESCENT AND RESCUE DEVICES retrieve an injured worker and lower him/her to the ground.

Users must have a rescue plan that either provides the prompt rescue of employees in the event of a fall or ensures that employees are able to rescue themselves.

A ANCHORAGE CONNECTORS offer secure attachment to your location.

Anchorage connectors, as defined by OSHA, are secure points of attachment for lifelines, lanyards or deceleration devices and are designed to hold fast under the forces generated during a fall. Anchorage connectors vary by industry, job, type of installation and structure.

- An anchorage connector may be a beam anchor, hook anchor, cross-arm strap, D-bolt, tripod, davit or other secure device that serves as a point of attachment.
- Anchorage connectors must be independent and capable of supporting 5,000 lbs. per worker attached, or they may be designed, installed and used under the supervision of a qualified person as part of a complete personal fall arrest system that maintains a safety factor of at least two times maximum arresting force. They must also be located high enough for a worker to avoid contact with a lower level should a fall occur.

C CONNECTORS provide the lifeline between body harness and anchorage connector.

Connectors attach the worker’s harness to the anchorage connector. Types will vary depending on whether the worker needs connecting for either of the following:

- **Personal Fall Arrest**
  This connector is often a lanyard equipped with an energy-absorbing element to reduce the force transmitted to the user’s body in the event of a fall.

- **Positioning and Travel Restriction**
  This connector is usually a simple lanyard intended to reduce the potential for entering a fall hazard zone or for free falling from a distance of less than 2 feet.
Harness the power of confidence to get the job done.

When it comes to fall protection equipment, a full body harness is one of the most important choices you can make. 3M™ Fall Protection Harnesses offer high-end durability, maximum movement and easy-to-wear comfort, all while providing a system component designed and tested to meet the rigorous requirements of OSHA regulations and ANSI Z359 standards. Select products also certified to CSA Z359 standards. With a harness for nearly every task, 3M is committed to delivering you carefully-crafted, innovatively-designed gear to help keep you productive and safe.

CONSIDERATIONS FOR CHOOSING A FULL BODY HARNESS:

- WHAT TYPE OF WORK WILL YOU BE DOING?

<table>
<thead>
<tr>
<th>Harness Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fall Arrest</td>
<td>The back D-ring is for fall arrest. Included on all harnesses.</td>
</tr>
<tr>
<td>Ladder Climbing</td>
<td>A front attachment point is the distinguishing factor of these harnesses, enabling connection to permanent ladder systems.</td>
</tr>
<tr>
<td>Work Positioning &amp; Travel Restraint</td>
<td>Positioning D-rings located on the hips are used with positioning lanyards and allow workers to use both hands.</td>
</tr>
<tr>
<td>Retrieval</td>
<td>An attachment point located on each shoulder strap is used in retrieval operations such as a confined space.</td>
</tr>
</tbody>
</table>

- WHAT TYPE OF HARDWARE CONNECTIONS DO YOU PREFER?

A variety of hardware options are available, including quick connect or pass thru buckles for chest, and quick connect, pass thru, or grommet for legs.

- HARNESS FAMILY OVERVIEW

Benefits vs. Price
Our family of 3M™ Fall Protection Harnesses offers a variety of features and benefits to fit your needs as well as your price range. To help you choose the right harness, use this chart to align your budget with desired features and benefits.
FULL BODY HARNESSES | HARNESS LINE OVERVIEW

To meet your specific environmental requirements and safety needs, 3M offers a variety of harnesses — each with its own unique properties and benefits. Choose from our Elavation™, Ameba, Feather, SafeLight and Specialty harnesses designed and tested to help keep you productive and protected, no matter the situation.

ELAVATION™
The premium fall arrest harness
- Advanced design allows for ease of adjustment and a more comfortable fit
- Premium padding is breathable and durable
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicators clearly show when product has been involved in a fall and needs to be removed from service
- Rubber protective shield for label pack
- All sizes rated to 400 lbs.

AMEBA
The upper mid-range fall arrest harness
- Webbing designed to flex with wearer for nonbinding comfort
- Soft mesh back pad for more comfortable wear
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Laminate helps protect label
- Universal, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.

FEATHER
The lower mid-range classic fall arrest harness
- Features an X-plate D-ring assembly designed to help reduce tangling for easier donning
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Laminate helps protect label
- Universal, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.

SAFELIGHT
The entry-level fall arrest harness
- Provides performance at exceptional value
- Lightweight design may help to improve worker comfort
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Laminate helps protect label
- Universal, XS, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.

Special Purpose Harnesses (featured on pages 36–41)

SATURN | designed for high-heat applications
APACHE | constructed for workers with a 311 lbs.–400 lbs. working weight
VEST HARNESS | harness with integrated bright color safety vest with 3M™ Scotchlite™ reflective material
WIND ENERGY HARNESS | designed for climbing applications
ENERGY HARNESS | 3M™ Elavation™ harness with padded seat sling
TOWER CLIMBING HARNESS | lightweight, flexible design for tower and other extensive climbing applications
SPECIALTY HARNESS | manufactured with PVC sleeves to cover all metal hardware
COATED HARNESS | polyurethane coating helps to protect webbing in extreme environments such as tar, oil and paint applications
OMEGA HARNESS | designed with webbing for those in contact with steel, concrete or abrasive surfaces
PERSONAL RESCUE DEVICE HARNESS | Latchways Personal Rescue Device™ PRD™ with 3M™ Elavation™ Harness

Choosing the size of your harness
Consider total working weight including clothing, tools, etc., and need for a tool belt:

- Up to 310 lbs. — XS, Universal, S-M and L-XL
- Up to 400 lbs. — XXL, Elavation™ Series or Apache
- With tool belt — select size based on waist measurement:
  - S-M = 34 inches–47 inches
  - L-XL = 44 inches–57 inches
  - XXL = 49 inches–62 inches

HEIGHT
WEIGHT (LBS.)
XS
UNIVERSAL
S-M
L-XL
XXL
88
132
176
220
265
310
353
400

SATURN | designed for high-heat applications
APACHE | constructed for workers with a 311 lbs.–400 lbs. working weight
VEST HARNESS | harness with integrated bright color safety vest with 3M™ Scotchlite™ reflective material
When your life is at risk, reward yourself with security.

ELAVATION™ PREMIUM FULL BODY HARNESS

The advanced design features in our Elavation™ harness help make fitting, adjusting, and wearing this fall arrest harness easier and more comfortable. From quick connect buckles to grommet leg straps or additional D-rings, we offer a variety of hardware configurations to suit your needs. Comfort padding is breathable and durable to help promote airflow while wicking away moisture. Potential entanglement hazards are minimized thanks to integrated web keepers and lanyard keepers that hold excess material out of the way. With long-lasting strength and premium features, Elavation harnesses rise above.

ADVANCED DESIGN AND COMFORT
Innovative design makes fitting, adjusting, and wearing the harness easier and more comfortable.

DURABLE MATERIALS
Long-lasting materials designed to meet the everyday challenges of your work environment.

MULTIPLE CONFIGURATIONS
A full range of harness configurations ensure the right harness choice for the application or industry in which you work — construction, wind energy, oil and gas, and more.

ELAVATION™ HARNESS FEATURES

- DORSAL CONNECTION
  Dorsal D-ring for fast, secure connections. Optional D-ring extension is available for even easier access to the back D-ring.

- BREATHABLE PADDING
  Breathable and durable fabric allows airflow and wicks away moisture for extended comfort.

- INTEGRATED LANYARD KEEPER
  Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

- WEB KEEPERS
  Help keep excess webbing in place and reduce entanglement hazards.

- FORMFIT WEBBING
  Designed to mold to the wearer’s body, giving comfortable support.

- IMPACT INDICATORS
  Located below the back D-ring, makes inspection quick and simple.

- LABEL PACK COVER
  Helps protect labels from the environment.

- TORSO ADJUSTERS
  For improved fit and comfort, red pull tabs provide easier adjustment when wearing gloves.

- PADDED TOOLBELT
  Comfortable support for positioning applications.

- CONNECTORS
  The following connector options are available on Elavation harnesses:
    - GROMMET
    - QUICK CONNECT
    - PADDED LEG STRAPS
      Padded leg and pelvic support.

* AVAILABLE ON ALL ELAVATION™ HARNESSES
  See page 35 for more info.
Choose the harness configuration with features that best fit your application or industry needs.

**Sample Elavation Harness Configurations**

### GENERAL FALL ARREST

#### 7510Q

**Elavation™**

Premium Fall Protection Harness

- Quick Connect Buckle Chest Connection
- Quick Connect Buckle Leg Connection

| - General Fall Arrest |
| - S-M | L-XL | XXL |
| - 400 lbs. capacity |

### WORK POSITIONING & FALL RESTRAINT

#### 7511Q

**Elavation™**

Premium Fall Protection Harness

- Quick Connect Buckle Chest Connection
- Quick Connect Buckle Leg Connection.
- Back and Side D-rings. Protective covers for label pack, lanyard keepers, and web keepers.

| - Work Positioning & Travel Restraint |
| - General Fall Arrest |
| - S-M | L-XL | XXL |
| - 400 lbs. capacity |

### LADDER CLIMBING

#### 7552FQ

**Elavation™**

Premium Fall Protection Harness

- Quick Connect Buckle Chest Connection
- Grommet Leg Connection and Front, Back and Side D-rings with padded positioning belt with toolbelt holder. Protective covers for label pack, lanyard keepers and web keepers.

| - Ladder Climbing |
| - Work Positioning & Travel Restraint |
| - General Fall Arrest |
| - S-M | L-XL | XXL |
| - 400 lbs. capacity |

### RETRIEVAL

#### 7514FQ

**Elavation™**

Premium Fall Protection Harness

- Quick Connect Buckle Chest Connection
- Quick Connect Buckle Leg Connection and Front, Back, Side and Shoulder D-rings. Protective covers for label pack, lanyard keepers and web keepers.

| - Retrieval |
| - Ladder Climbing |
| - Work Positioning & Travel Restraint |
| - General Fall Arrest |
| - S-M | L-XL | XXL |
| - 400 lbs. capacity |

**Elavation™ HARNESS ORDERING GUIDE**

Build your harness by creating a product code in 5 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

**EXAMPLE:**

```
75 1 1F E Q
```

1. **Choose a Harness Family**
   
   Every harness family has a code. This code is the first entry in your product code.
   
   75 = Elavation™ Harnesses

2. **Choose Hardware for the Leg Connection**
   
   Choose preferred hardware. This code is the second entry in your product code.
   
   1 = Quick Connect Leg Connection Hardware
   5 = Grommet Leg Connection Hardware

3. **Choose a D-ring Configuration**
   
   The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

<table>
<thead>
<tr>
<th>D-ring Code</th>
<th>Back</th>
<th>Front</th>
<th>Side</th>
<th>Shoulder</th>
<th>Padded Positioning Belt</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
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<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. **Choose a D-ring Extender**
   
   If you want to add a D-ring extender, add an “E” to the product code for “Extender.”

5. **If the harness comes with the chest connection**
   
   Add a “Q” at the end of the product code.

**Your product code:** 7511FQE

**Your harness description:** Elavation™ harnesses with Quick Connect leg connection hardware, back, front and side D-rings, a D-ring extender and Quick Connect chest buckles.

**Your product code:** 7511FQ

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.

**Your product code:** 7511Q

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.

**Your product code:** 7552FQ

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.

**Your product code:** 7514FQ

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.

**Your product code:** 7552FQ

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.

**Your product code:** 7514FQ

**Your harness description:** Elavation™ Premium Fall Protection Harness Quick Connect Buckle Chest Connection and Quick Connect Buckle Leg Connection. Protective covers for label pack, lanyard keepers, and web keepers.
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7510Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Back D-ring</td>
</tr>
<tr>
<td>7511EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Back D-ring with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7511FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>7512Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side and Back D-rings and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>7512EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7512FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Side, Front and Back D-rings and padded positioning belt with extended belt D-ring and toolbelt holder</td>
</tr>
<tr>
<td>7513Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings</td>
</tr>
<tr>
<td>7513EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7513FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings</td>
</tr>
<tr>
<td>7514Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7514EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7515Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring</td>
</tr>
<tr>
<td>7515EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7515FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>7515FEQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7516Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>7516EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7516FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>7516FEQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7517Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Front D-rings</td>
</tr>
<tr>
<td>7517EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Front D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7517FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>7517FEQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>7518Q</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>7518EQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>7518FQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>7518FEQ</td>
<td>S-M, L-XL, XXL</td>
<td>Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder</td>
</tr>
</tbody>
</table>

**CORE ITEM**

Our best selling equipment — in stock and in demand.
The Ameba harness features a webbing uniquely designed to flex and bend with the wearer for non-binding comfort. Unlike harnesses that feature elastic blend webbing, the Ameba harness maintains its shape and integrity over time. Its soft mesh backpad helps wick moisture away from the body for a cooler, more comfortable experience. Potential entanglement hazards are minimized thanks to integrated web keepers and lanyard keepers designed to hold excess material out of the way. This is an exceptional mid-range harness for a greater range of mobility.

**AMEBA HARNESS FEATURES**

- **DORSAL CONNECTION**
  Dorsal D-ring for fast, secure connections. Optional D-ring extension is available for even easier access to the back D-ring.

- **BREATHTABLE PADDING**
  Breathable mesh backpad allows airflow and wicks away moisture for extended comfort.

- **WEB KEEPSERS**
  Help keep excess webbing in place and reduce entanglement hazards.

- **WEBBING**
  Designed to flex with wearer for nonbinding comfort.

- **INTEGRATED LANYARD KEEPER**
  Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

- **WEB KEEPERS**
  Help keep excess webbing in place and reduce entanglement hazards.

- **PADDED TOOLBELT**
  Comfortable support for positioning applications.

- **CONNECTORS**
  The following connector options are available on Ameba harnesses:

  - **IMPACT INDICATORS**
    Promote safety and makes inspection quick and simple.

  - **TORSO ADJUSTERS**
    For improved fit and comfort.

  - **GROMMET**
    (for leg only)

  - **PASS THRU**
    (for chest or leg)

  - **QUICK CONNECT**
    (for chest or leg)

**ADVANCED DESIGN AND COMFORT**
Non-elastic webbing conforms to the wearer, yet maintains its shape for ultimate comfort throughout the day.

**DURABLE MATERIALS**
Engineered and built using quality materials designed to endure the many effects of day-to-day use.

**MULTIPLE CONFIGURATIONS**
Features full range of harness configurations to ensure the right choice of appropriate harness for the application or industry — construction, wind energy, oil and gas, and more.

*Available on all Ameba harnesses.*

See page 35 for more info.

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The protection you need, the comfort you want
Choose your harness configuration with features that best fit your application or industry needs.

Sample Ameba Harness Configurations

**GENERAL FALL ARREST**

1450 Ameba Upper Mid-range Fall Protection Harness

Comfort Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring. Lanyard keepers and web keepers.

- General Fall Arrest
- Universal Size: 310 lbs. capacity
- XXL: 400 lbs. capacity

**WORK POSITIONING & TRAVEL RESTRAINT**

1452 Ameba Upper Mid-range Fall Protection Harness

Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings with Backpack and Toolbelt. Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M: 310 lbs. capacity
- L-XL: 310 lbs. capacity
- XXL: 400 lbs. capacity

**LADDER CLIMBING**

1452FE Ameba Upper Mid-range Fall Protection Harness


- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M: 310 lbs. capacity
- L-XL: 310 lbs. capacity
- XXL: 400 lbs. capacity

**RETRIEVAL**

1453F Ameba Upper Mid-range Fall Protection Harness

Comfort Harness with Pass Thru Chest Connection, Grommet Leg Connection and Front, Back and Shoulder D-rings. Lanyard keepers and web keepers.

- Retrieval
- Ladder Climbing
- General Fall Arrest
- Universal Size: 310 lbs. capacity
- XXL: 400 lbs. capacity

Your product code: 1413FEQ

Your harness description: Ameba harnesses with Quick Connect leg connection hardware, back, front and shoulder D-rings, a D-ring extender and Quick Connect chest buckles.

**EXAMPLE:**

1. Choose a Harness Family

Every harness family has a code. This code is the first entry in your product code.

14 = Ameba Harnesses

2. Choose Hardware for Leg and Chest Connections

Choose preferred hardware. This code is the second entry in your product code.

1 = Pass Thru Leg and Chest Connection Hardware
5 = Grommet Leg Connection, Pass Thru Chest Hardware

3. Choose a D-ring Configuration

The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

<table>
<thead>
<tr>
<th>D-ring Options</th>
<th>Back</th>
<th>Front</th>
<th>Side</th>
<th>Shoulder</th>
<th>Padded Positioning Belt</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1F</td>
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<tr>
<td>2F</td>
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<tr>
<td>3F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you want to add a D-ring extender, add an “E” to the product code for “Extender.”

4. Add a “Q” at the end of your product code to upgrade chest and leg hardware as follows:

If 1 was chosen in step 2: Pass Thru Leg and Pass Thru Chest will change to Quick Connect leg and Quick Connect chest.

If 5 was chosen in step 2: Grommet leg and Pass Thru chest will change to Grommet leg and Quick Connect chest.
FULL BODY HARNESS

Product No. | Size | Description
--- | --- | ---
1410E | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-rings with 11 in. D-ring extension
1410Q | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Back D-ring
1410EQ | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Front and Back D-rings with 11 in. D-ring extension

FULL BODY HARNESS

Product No. | Size | Description
--- | --- | ---
1411 | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings
1411E | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
1411F | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings
1411Q | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Side and Back D-rings with 11 in. D-ring extension
1411EQ | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension

FULL BODY HARNESS

Product No. | Size | Description
--- | --- | ---
1412 | S-M, L-XL, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
1412E | S-M, L-XL, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
1412F | S-M, L-XL, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
1412Q | S-M, L-XL, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
1412EQ | S-M, L-XL, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder

FULL BODY HARNESS

Product No. | Size | Description
--- | --- | ---
1413 | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings
1413E | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
1413F | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
1413EQ | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension

FULL BODY HARNESS

Product No. | Size | Description
--- | --- | ---
1414 | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side and Front and Back D-rings
1414E | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side and Front and Back D-rings with 11 in. D-ring extension
1414F | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings
1414EQ | Universal, XXL | Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings with 11 in. D-ring extension

CORE ITEM

Our best selling equipment — in stock and in demand.

Any Amera harness size XXL is rated to 400 lbs.
The harness that’s a true workhorse

The Feather harness is our original harness and remains a popular choice today thanks to its X-plate D-ring assembly, designed to help reduce tangles and lie flat on the user’s back. From pass thru chest connection to grommet or pass thru leg straps to additional D-rings, a variety of hardware configurations are available. Integrated web keepers and lanyard keepers hold excess material out of the way to help reduce potential entanglement hazards. The Feather is a perfect lower mid-range harness choice that’s a true original.

FEATHER FALL ARREST HARNESS
Lightweight, durable harness features full range of harness configurations for most applications — from general fall arrest and positioning to ladder climbing and retrieval.

FEATHER HARNESS FEATURES

- DORSAL CONNECTION
  The X-plate D-ring assembly helps reduce tangles and lies flat for easy donning of the harness.

- IMPACT INDICATORS
  Promotes safety and makes inspection quick and simple.

- INTEGRATED LANYARD KEEPER
  Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

- WEBBING
  Durable polyester material is lightweight and long wearing.

- WEB KEEPERS
  Help keep excess webbing in place and reduce entanglement hazards.

- TORSO ADJUSTERS
  For improved fit and comfort.

- CONNECTORS
  Depending on worker preference, these connector options are available:
  - GROMMET
    (for leg only)
  - PASS THRU
    (for chest or leg)
  - QUICK CONNECT
    (for chest or leg)

- WEB KEEPERS
  Help keep excess webbing in place and reduce entanglement hazards.

• AVAILABLE ON ALL FEATHER HARNESSES •
See page 35 for more info.
Choose the harness configuration with features that best fit your application or industry needs.

### GENERAL FALL ARREST

**1050 Feather Lower Mid-Range Fall Protection Harness**

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back D-rings. Lanyard keepers and web keepers.

- General Fall Arrest
- Universal Size: 310 lbs. capacity
- XXL: 400 lbs. capacity

**CORE ITEM** Our best selling equipment — in stock and in demand.

### WORK POSITIONING & TRAVEL RESTRAINT

**1051 Feather Lower Mid-Range Fall Protection Harness**

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings. Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- Universal Size: 310 lbs. capacity
- XXL: 400 lbs. capacity

### LADDER CLIMBING

**1052F Feather Lower Mid-Range Fall Protection Harness**

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back, Front and Side D-rings with Padded Positioning Belt with Toolbelt Holder. Lanyard keepers and web keepers.

- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M: 310 lbs. capacity
- L-XL: 310 lbs. capacity
- XXL: 400 lbs. capacity

### RETRIEVAL

**1053F Feather Lower Mid-Range Fall Protection Harness**

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Front, Back and Shoulder D-rings. Lanyard keepers and web keepers.

- Retrieval
- Ladder Climbing
- General Fall Arrest
- Universal Size: 310 lbs. capacity
- XXL: 400 lbs. capacity

1. **Choose a Harness Family**
   - Every family of harness has a code. This code is the first entry in your product code.
   - 10 = Feather Harnesses

2. **Choose Hardware for Leg and Chest Connections**
   - Choose the preferred hardware. This code is the second entry in your product code.
   - 1 = Pass Thru Leg and Chest Connection Hardware
   - 5 = Grommet Leg Connection, Pass Thru Chest Hardware

3. **Choose a D-ring Configuration**
   - The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

4. **Add a D-ring extender**
   - If you want to add a D-ring extender, add an “E” to the product code for “Extender.”

5. **Upgrade chest and leg hardware**
   - Add a “Q” at the end of your product code to upgrade chest and leg hardware as follows:
     - If 1 was chosen in step 2: Pass Thru Leg and Pass Thru Chest will change to Quick Connect Leg and Quick Connect Chest.
     - If 5 was chosen in step 2: Grommet Leg and Pass Thru Chest will change to Grommet Leg and Quick Connect Chest.

---

**Sample Feather Harness Configurations**

**FEATHER HARNESS ORDERING GUIDE**

Build your harness by creating a product code in 5 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

---

**D-RING OPTIONS**

- Padded Back
- Front
- Side
- Shoulder
- Positioning Belt
- Retrieval
- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- Universal Size
- 310 lbs. capacity
- XXL: 400 lbs. capacity

If you want to add a D-ring extender, add an “E” to the product code for “Extender.”

---

**FEATHER HARNESS ORDERING GUIDE**

Build your harness by creating a product code in 5 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

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**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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**FEATHER HARNESS ORDERING GUIDE**

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**Your product code:**

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Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

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Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

**EXAMPLE:**

**Your product code:**

1012EQ

**Your harness description:**

Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.
<table>
<thead>
<tr>
<th>Product No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1010</td>
<td>Universal, XXL Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>1010E</td>
<td>Universal, XXL Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1010F</td>
<td>Universal, XXL Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>1010FE</td>
<td>Universal, XXL Quick Connect Chest Connection, Grommet Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>1010EQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>1010FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings</td>
</tr>
<tr>
<td>1011</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>1011E</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1011F</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings</td>
</tr>
<tr>
<td>1011FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings</td>
</tr>
<tr>
<td>1011EQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Side and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1011FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1012</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder. Comes with 9 in. shoulder pads.</td>
</tr>
<tr>
<td>1012F</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder. Comes with 9 in. shoulder pads.</td>
</tr>
<tr>
<td>1012FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder. Comes with 9 in. shoulder pads.</td>
</tr>
<tr>
<td>1012EQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder. Comes with 9 in. shoulder pads.</td>
</tr>
<tr>
<td>1012FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder. Comes with 9 in. shoulder pads.</td>
</tr>
<tr>
<td>1013</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings</td>
</tr>
<tr>
<td>1013E</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1013F</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings</td>
</tr>
<tr>
<td>1013FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings</td>
</tr>
<tr>
<td>1014</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side and Front and Back D-rings</td>
</tr>
<tr>
<td>1014E</td>
<td>Universal, XXL Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1014F</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings</td>
</tr>
<tr>
<td>1014FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings</td>
</tr>
<tr>
<td>1014EQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
<tr>
<td>1014FQ</td>
<td>Universal, XXL Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side and Front and Back D-rings with 11 in. D-ring extension</td>
</tr>
</tbody>
</table>

**Note:** Our best selling equipment — in stock and in demand.

**CORE ITEM**

Any Feather harness size XXL is rated to 400 lbs.

**3M** Fall Protection Catalog | 3M.com/FallProtection
Reliable fall protection
that’s strong, lightweight and a great value

SAFELIGHT | ENTRY-LEVEL FULL BODY HARNESS

A lightweight and economical fall arrest harness, the SafeLight delivers quality construction designed for general fall arrest applications. It comes standard with a pass thru chest connection and options for grommet or pass thru leg straps and additional D-rings. The SafeLight harness is an excellent entry-level harness choice that is affordable and easy to use.

ECONOMIC FALL ARREST HARNESS
Affordable, lightweight, quality harness for general fall arrest and roofing applications.

SAFELIGHT HARNESS FEATURES

- **DORSAL CONNECTION**: Integrated dorsal D-ring for secure general fall protection purposes.
- **WEBBING**: Durable polyester material is lightweight and long-wearing.
- **INTEGRATED LANYARD KEEPER**: Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.
- **WEB KEEPERS**: Help keep excess webbing in place and reduce entanglement hazards.
- **CONNECTORS**: Depending on worker preference, these connector options are available:
  - GROMMET (for leg only)
  - PASS THRU (for chest or leg)

• AVAILABLE ON ALL SAFELIGHT HARNESSES •
See page 35 for more info.
SAFELIGHT HARNESS ORDERING GUIDE

Build your harness by creating a product code in 3 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration. The combination of these codes creates a product code for ordering your harness with desired options.

EXAMPLE:

1. Choose a Harness Family
Every harness family has a code. This code is the first entry in your product code.
109 = SafeLight Harnesses
*SafeLight code can also begin with 106 and 108. See next page for product options.

2. Choose Hardware for Leg and Chest Connections
Choose the preferred hardware. This code is the second entry in your product code.
1 = Pass Thru Leg and Pass Thru Chest Connection Hardware
5 = Grommet Leg Connection and Pass Thru Chest Connection Hardware

3. Choose a D-ring Configuration
The chart below shows D-ring options. Choose the code for the configuration needed. This determines the next entry in your product code.

Your product code: 10950
Your harness description: SafeLight harness with Grommet leg connection hardware, Pass Thru chest connection and back D-ring.

Choose a Harness Family
Every harness family has a code. This code is the first entry in your product code.
109 = SafeLight Harnesses
*SafeLight code can also begin with 106 and 108. See next page for product options.

Choose Hardware for Leg and Chest Connections
Choose the preferred hardware. This code is the second entry in your product code.
1 = Pass Thru Leg and Pass Thru Chest Connection Hardware
5 = Grommet Leg Connection and Pass Thru Chest Connection Hardware

Choose a D-ring Configuration
The chart below shows D-ring options. Choose the code for the configuration needed. This determines the next entry in your product code.

Your product code: 10950
Your harness description: SafeLight harness with Grommet leg connection hardware, Pass Thru chest connection and back D-ring.

Choose a Harness Family
Every harness family has a code. This code is the first entry in your product code.
109 = SafeLight Harnesses
*SafeLight code can also begin with 106 and 108. See next page for product options.

Choose Hardware for Leg and Chest Connections
Choose the preferred hardware. This code is the second entry in your product code.
1 = Pass Thru Leg and Pass Thru Chest Connection Hardware
5 = Grommet Leg Connection and Pass Thru Chest Connection Hardware

Choose a D-ring Configuration
The chart below shows D-ring options. Choose the code for the configuration needed. This determines the next entry in your product code.

Your product code: 10950
Your harness description: SafeLight harness with Grommet leg connection hardware, Pass Thru chest connection and back D-ring.

Choose a Harness Family
Every harness family has a code. This code is the first entry in your product code.
109 = SafeLight Harnesses
*SafeLight code can also begin with 106 and 108. See next page for product options.

Choose Hardware for Leg and Chest Connections
Choose the preferred hardware. This code is the second entry in your product code.
1 = Pass Thru Leg and Pass Thru Chest Connection Hardware
5 = Grommet Leg Connection and Pass Thru Chest Connection Hardware

Choose a D-ring Configuration
The chart below shows D-ring options. Choose the code for the configuration needed. This determines the next entry in your product code.

Your product code: 10950
Your harness description: SafeLight harness with Grommet leg connection hardware, Pass Thru chest connection and back D-ring.
Customize your harness with your company logo.

3M offers the option to add a custom logo to select harness families. Follow the guidelines to ensure 3M can help customize your order. Look for “Custom Logo” on all eligible harness family pages.

Custom Logo Specifications
- Print area: 1-1/2 inches x 5 inches
- Color: Two maximum
- Location: Logo will appear on back strap unless the harness comes with a padded positioning belt. Then, the logo will appear on the back of the padded belt.
- Artwork format: .eps or .ai files

All logo artwork received must comply with 3M Harness Logo Program requirements.

Order Instructions
To order a harness with logo, simply add “-Logo” to the end of any eligible harness product code. Minimum 15-piece opening order for harnesses with logo. Minimum five pieces for reorders.

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10650</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection, Front and Back D-rings and frontal rescue loops with carabiner</td>
</tr>
<tr>
<td>10651</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and frontal rescue loops with carabiner</td>
</tr>
<tr>
<td>10810</td>
<td>Universal</td>
<td>Three-Point Adjustment Harness, Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring</td>
</tr>
<tr>
<td>10810/208152</td>
<td>Universal</td>
<td>Three-Point Adjustment Harness, Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring with permanently attached SafeLight 6 ft. Energy Absorbing Lanyard</td>
</tr>
<tr>
<td>10910</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring</td>
</tr>
<tr>
<td>10910F</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-rings</td>
</tr>
<tr>
<td>10910/209152</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-rings with permanently attached SafeLight 6 ft. Energy Absorbing Lanyard</td>
</tr>
<tr>
<td>10911</td>
<td>XS, Universal</td>
<td>Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>10911F</td>
<td>XS, Universal</td>
<td>Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings</td>
</tr>
<tr>
<td>10950</td>
<td>XS, Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring</td>
</tr>
<tr>
<td>10951</td>
<td>XS, Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings</td>
</tr>
<tr>
<td>10952</td>
<td>S-M, L-XL, XXL</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>10952F</td>
<td>S-M, L-XL, XXL</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings and padded positioning belt with toolbelt holder</td>
</tr>
<tr>
<td>10953F</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings</td>
</tr>
<tr>
<td>10954F</td>
<td>Universal</td>
<td>Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings</td>
</tr>
</tbody>
</table>

Any SafeLight harness size XXL is rated to 400 lbs.

Core Item Our best selling equipment — in stock and in demand.

3M.com/FallProtection | 35
Saturn Harness

The Saturn harness is specifically designed for high-heat applications to provide char resistance. With its innovative fiber web, the Saturn resists char spatter up to 700°F. Benefits include a lightweight fit designed to improve worker comfort and integrated web keepers and lanyard keepers that hold excess material out of the way to reduce potential entanglement hazards. For quality and protection, the Saturn is a star.

SATURN FALL PROTECTION HARNESSES WITH LANYARD STORAGE AND WEB KEEPERS | Resists char spatter up to 700°F

Product No. | Size | Description
--- | --- | ---
1020 | XS, Universal, XXL, XXXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring
1020F | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-ring
1020Q | Universal, XXL | Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Back D-ring
1020FG | Universal, XXL | Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front and Back D-rings
1021 | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings
1021F | Universal, XXL | Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings
1021FG | Universal, XXL | Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Side and Back D-rings
1021FGQ | Universal, XXL | Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Side, Front, Back and D-rings
1030 | XS, Universal, XXL, XXXL | Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring
1030F | Universal, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-ring
1030Q | Universal, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring
1030FGQ | Universal, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings
1031 | Universal, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings
1031F | Universal, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
1031FGQ | Universal, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings
1031FQ | Universal, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
1321 | S-M, L-XL, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings with padded positioning belt with toolbelt holder
1321F | S-M, L-XL, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with padded positioning belt with toolbelt holder
1321GQ | S-M, L-XL, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings with padded positioning belt with toolbelt holder
1321FG | S-M, L-XL, XXL | Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with padded positioning belt with toolbelt holder
1323 | Universal, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Shoulder and Back D-rings
1323F | S-M, L-XL, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Shoulder and Back D-rings with padded positioning belt with toolbelt holder
1324 | Universal, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Shoulder and Back D-rings with padded positioning belt with toolbelt holder
1324F | S-M, L-XL, XXL | Pass Thru Chest Connection, Grommet Leg Connection and Shoulder and Back D-rings with padded positioning belt with toolbelt holder

CORE ITEM Our best selling equipment — in stock and in demand.
### Apache Harness

The Apache Harness is engineered and manufactured for workers who have a 311 lbs.–400 lbs. total working weight. Given these specifications, the harness must be used with a 400 lbs. rated connecting device. Integrated web keepers and lanyard keepers hold excess material out of the way to help reduce potential entanglement hazards. Rugged, durable and strong, the Apache accommodates:

- **Available on Apache Harness**
- See page 33 for more info.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Description</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1040</td>
<td>XXL, XXXL</td>
<td>Pass Thru Chest Connection, Pass Thru Leg and Back D-ring</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>1041</td>
<td>XXL, XXXL</td>
<td>Pass Thru Chest Connection, Pass Thru Leg, Back and Side D-rings and padded positioning belt with toolbelt holder</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>1710</td>
<td>XXL, XXXL</td>
<td>Pass Thru Chest Connection, Grrommet Leg and Back D-ring with Toolbelt</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>1711</td>
<td>XXL, XXXL</td>
<td>Pass Thru Chest Connection, Grrommet Leg and Back and Side D-rings</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

### Vest Harness

The Fall Arrest Harness with bright colored vest including 3M Scotchlite™ Reflective Material with Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings. Lanyard keepers and web keepers: Meets ANSI/ISEA 107-2004 Class I.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1808</td>
<td>S-M, L-XL</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>1808</td>
<td>XL</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

### Wind Energy Harness

Wind Energy Harness, with Quick Connect Buckle Chest Connection, Grommet Leg Connection, Back and Side D-Rings and a fixed Front D-Ring for approved connection point with vertical lifeline systems. Comes with padded positioning belt and toolbelt holder. Lanyard keepers and web keepers:

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Description</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1490</td>
<td>S-M</td>
<td>Quick Connect Chest, Grommet Leg and Back and Front D-rings</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>1490</td>
<td>L-XL</td>
<td>Quick Connect Chest, Grommet Leg and Back and Front D-rings</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>1490</td>
<td>XL</td>
<td>Quick Connect Chest, Grommet Leg and Back and Front D-rings</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>1492</td>
<td>S, M, L, XL</td>
<td>Quick Connect Chest, Grommet Leg and Back, and padded positioning belt with toolbelt holder</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>1493</td>
<td>XL</td>
<td>Quick Connect Chest, Grommet Leg and Back, and padded positioning belt with toolbelt holder</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

### Tower Climbing Harness

Tower Climbing Fall Protection Harness with Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Back, Front, Side and Seat D-rings, and padded positioning belt with toolbelt holder and seat sling for climbing application. Lanyard keepers and web keepers:

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1515</td>
<td>S, M, L-XL</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>1515</td>
<td>XL</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

### Wind Energy Harness

Wind Energy Harness with Quick Connect Buckle Chest Connection, Grommet Leg Connection, Back and Side D-Rings and a fixed Front D-Ring for approved connection point with vertical lifeline systems. Comes with padded positioning belt and toolbelt holder. Lanyard keepers and web keepers:

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM7510</td>
<td>S, M, L-XL, XXL</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

### Elavation™ Energy Harness

Elavation™ Fall Protection Energy Harness with Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Back and Seat D-rings with padded seat sling. Lanyard keepers and web keepers:

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM7510</td>
<td>S, M, L-XL, XXL</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

---

**SPECIALTY | FULL BODY HARNESS**

Our best selling equipment — in stock and in demand.
SPECIALTY | FULL BODY HARNESS |

**U1620**
Specialty Harness
Specialty Harness with Soft Loop Back D-Ring and PVC sleeve, Lanyard keepers and web keepers.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1620</td>
<td>Universal</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

**10955**
Coated Web Harness
Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring. Polyurethane coated web for dirty jobs such as tar roofing, oil-field work and painting. Lanyard keepers and web keepers.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>10955</td>
<td>Universal</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>10955</td>
<td>XXL</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

**PRD-7510Q**
Personal Rescue Device Harness
Latchways Personal Rescue Device™ PRD™ with 3M™ Elevation™ Harness 7510Q has Quick Connect Buckle Chest and Leg Connection, Back D-ring. For more information on the Personal Rescue Device Harness, see page 126 in the Escape and Rescue section of this catalog.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRD-7510Q</td>
<td>S-M</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>PRD-7510Q</td>
<td>L-XL</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>PRD-7510Q</td>
<td>XXL</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

**M1311**
Omega Fall Protection Harness
Pass Thru Chest Connection, Grommet Leg Connection, Side and Back D-rings, and padded positioning belt with toolbelt holder.

<table>
<thead>
<tr>
<th>Prod. No.</th>
<th>Size</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1311</td>
<td>S, M, L, XL</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>M1311</td>
<td>XXL</td>
<td>450 lbs.</td>
</tr>
</tbody>
</table>

**R-100**
Suspension Trauma Strap
Suspension Trauma Strap helps to relieve discomfort normally associated with prolonged suspension. 70 inch overall length.

**CORE ITEM** Our best selling equipment — in stock and in demand.
Safety and security that defies gravity, not logic.

SELF-RETRACTING LANYARDS

When working in dangerous environments, 3M™ Fall Protection self-retracting lanyards deliver the freedom of movement with the assurance of superior safety. Designed with durability and functionality in mind, our innovative lifelines are dependable. They are available in a wide range of lengths in both webbing and cable lifelines — so whatever the job, there is a product for you. Extensively tested to meet or exceed applicable ANSI and CSA standards and OSHA regulatory requirements, 3M is committed to give you the confidence to get the job done.

WHAT TO CONSIDER WHEN CHOOSING A SELF-RETRACTING LANYARD.

Your comfort, budget and specific work environment needs are of utmost importance.

1. WORK ENVIRONMENT

When choosing an SRL, it’s important to know the conditions of your work environment. From harsh marine and mining to oil and gas to general purpose, getting the best use out of an SRL depends on understanding where — and how — it will be utilized.

Which lanyard material is required?

WEB | General-purpose environments — ideal for indoor or less harsh environments
CABLE | Extremely harsh environments — offers extra durability and is ideal for abrasive or high-heat situations

Why should I choose a single- or dual-leg lanyard?

SINGLE-LEG | for single anchor point connection to work within a specific range of movement
DUAL-LEG | offers continued protection for a broader range of movement when transferring between anchor points

2. COST vs. LENGTH AND MATERIAL

Choose from a wide range of our competitively priced web or cable lanyards in lengths from 7 feet to 130 feet.

3. HARDWARE CHOICES

Housing hardware

| CARABINER | connects to anchorage connector
| DUAL-LEG ADAPTER | connects directly to back D-ring, allowing two SRLs for 100% tie-off

Lifeline hardware

| SWIVEL SNAP HOOK |
| SNAP HOOK |
| REBAR SNAP HOOK |

4. CHOOSING A SELF-RETRACTING LANYARD vs. AN ENERGY-ABSORBING LANYARD

Self-retracting lanyards offer greater mobility and maneuverability, which may help increase productivity. They also help shorten fall distance and minimize trip hazards — significantly reducing the potential for injury. Unlike a typical 6 foot energy-absorbing lanyard, SRLs range in length from 7 feet to 130 feet to increase the working zone. In the event of a fall, the self-retracting lanyard braking mechanism activates as soon as the user reaches an approximate acceleration speed of 4-1/2 feet/6-1/2 ft/sec. (generally 13 inches–18 inches), with a maximum arresting distance of 42 inches as required by OSHA 1910.66 and 1926.502 regulations. Self-retracting lanyards retain tension on the lifeline at all times, staying out of the worker’s way while providing maximum safety.

MORE THAN 17-1/2 FEET OF CLEARANCE

An energy-absorbing lanyard or self-retracting lanyard can be used.

LESS THAN 17-1/2 FEET OF CLEARANCE

The use of a self-retracting lanyard is recommended.
**OVERVIEW**

3M™ Sealed ReLoad™, ReLoad™, M Series, RLD Series and MS Series retractable lanyard families represent a broad range of connecting devices. Designed for durable performance, they are ideal for indoor or outdoor use, in light and heavy industrial environments.

**Premium and Mid-range Self-Retracting Lanyards**

**SEALED RELOAD™**
- Designed for durable performance in harsh work environments
- Web models also ideal for environments that may be sensitive to contact with traditional steel cable.
- Available with stainless steel cable ranging from 30 feet up to 130 feet.
- Ingress protection rating: IP69K.

**RELOAD™**
- Designed for durable performance in general-purpose and harsh work environments. Web models also ideal for environments that may be sensitive to contact with traditional steel cable.
- Available with stainless steel or galvanized steel cable ranging from 23 feet up to 50 feet and with web ranging from 7 feet up to 23 feet.
- Stainless steel or galvanized cable lifeline with indicating snaphook and impact-modified nylon housing. Web lifeline with aluminum or impact-modified nylon housing.

**RLD SERIES**
- Economically suited for most work environments.
- Available with galvanized steel cable ranging from 10 feet to 50 feet.
- Polymer housing helps to provide a lighter-weight option.

**MS SERIES**
- For use in general-purpose work environments and in environments that may be sensitive to contact with traditional steel cable lanyards.
- Strong-performing web retractable available in 7 feet up to 50 feet.
- Dyneema® webbing for increased durability.

**M SERIES**
- Ideal for use in general-purpose work environments.
- Available with 15 feet of galvanized steel cable.
- Aluminum housing and galvanized steel cable lifeline provides increased durability.

**SRL ACCESSORY: DL-7 DUAL-LEG ADAPTER**
- Lightweight adapter connects two self-retracting lanyards directly to back D-ring of harness, allowing for 100% tie-off.
SEALED RELOAD™ | PREMIUM SELF-RETRACTING LANYARD

With years of fall protection experience, 3M has developed the Sealed ReLoad™ self-retracting lanyard (SRL) — a completely field serviceable sealed SRL. The Sealed ReLoad™ SRL range offers a dependable means of fall protection and has been specifically designed for use in harsh environments such as steel mills, oil rigs, wind turbines and other applications, enabling an unhindered, hands-free fall protection solution. Utilizing modern engineering and innovative design, it’s one of the most advanced, reliable and cost-effective SRLs available on the market today.

SREC-30-SS

Sealed ReLoad™ Self-Retracting Lanyard

This premium fall protection self-retracting lanyard is a 30 foot stainless steel 316 cable lifeline with aluminum housing and indicating stainless steel swivel snap hook. Designed for durable performance in harsh work environments.

PRODUCT NUMBER | DESCRIPTION | LENGTH | WEIGHT OF UNIT | STANDARD
--- | --- | --- | --- | ---
SREC-30-SS | Sealed ReLoad SRL features aluminum housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating. | 30 ft. | 21.4 lbs. | ANSI Z359.14-2012, CSA Z259.2.2-98
SREC-50-SS | Sealed ReLoad SRL features aluminum housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating. | 50 ft. | 27.7 lbs. | ANSI Z359.14-2012, CSA Z259.2.2-98
SREC-85-SS | Sealed ReLoad SRL features aluminum, stainless steel housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating. | 85 ft. | 47.3 lbs. | ANSI Z359.14-2012, CSA Z259.2.2-98
SREC-130-SS | Sealed ReLoad SRL features aluminum, stainless steel housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating. | 130 ft. | 62 lbs. | ANSI Z359.14-2012, CSA Z259.2.2-98

Smart. Safe. Strong.

Fit for a purpose.

CARTELL SRLICA ™

COMPLETELY FIELD SERVICEABLE*

The 3M™ Sealed ReLoad™ SRL allows for common repairs to be performed on site by a trained technician. Should a fall occur, the modular design makes it easy for individual components to be removed and replaced in the field within minutes — allowing quick and easy servicing of not only the cable, but also the absorber. The Sealed ReLoad™ SRL reduces costs incurred during product maintenance, including labor, shipping and product downtime. 3M can provide training that will enable personnel to inspect and maintain Sealed ReLoad™ SRL units on site. Contact your 3M Representative for more information. A selection of replacement component parts is shown below.

- REPLACEMENT ABSORBER KIT
- REPLACEMENT STAINLESS STEEL CABLE KIT
- REPLACEMENT LABELS
- ATTACHMENT POINT

* Must be repaired by a certified repair person.

ACCELERATED CORROSION TESTING

Accelerated corrosion testing has been performed that simulates real life corrosion in a controlled environment for 2000 hours. This is a recognized representative period of 10 years ‘real life’ use of the Sealed ReLoad™ SRL.

MEETS OR EXCEEDS GLOBAL INDUSTRY STANDARDS AND OSHA REGULATORY REQUIREMENTS

- ANSI Z359.14-2012
- OSHA 1910.66
- OSHA 1926.502
- CSA Z259.2.2-98
- IP 69K

100% FULL CONTACT LOCKING MECHANISM

The Full Contact™ pawl locking mechanism provides 100% reliable locking pawls that won’t freeze, hang up or corrode.

PROTECTIVE SEAL

Critical components are sealed from the external environment by a series of rubber gaskets, providing improved resistance to corrosion. The protective seal provides an IP rating of IP 69K, which is the highest rating on the ingress protection scale.

FRICTIONLESS BRAKING MECHANISM

This braking mechanism has no moving parts and will not go out of adjustment or require recalibration for the lifespan of the product.
RELOAD™ PREMIUM SELF-RETACTING LANYARD

3M has combined innovative engineering, superior materials and futuristic design with quick and easy recertification to provide the most advanced range of self-retracting lanyards (SRLs) on the market. The ReLoad™ SRL has been developed with a number of unique features to provide a smarter, safer and stronger alternative to traditional SRLs.

RELOAD™ SELF-RETRACTING LANYARD FEATURES

100% RELIABLE LOCKING MECHANISM
• Constantly moving, the 100% reliable Full Contact™ locking mechanism “clicks” to reassure the user it’s functioning correctly
• Cannot freeze, hang up or corrode
• No set lubrication to attract dirt and debris
• Stainless steel components unaffected by water, contaminants, temperature and time

IMPACT-RESISTANT CASING
The ReLoad™ self-retracting lanyard range is encased in an impact-modified nylon housing, which is designed to help to protect the chassis inside. This acts purely as armor — no-critical components form part of the casing, meaning that even in the event of severe damage, it can be easily replaced.

PATENTED FRICTIONLESS BRAKING SYSTEM
• A frictionless braking system with no moving parts to go out of adjustment
• Individual components can be removed and replaced in minutes due to modular design. Repairs to be performed on site by a trained technician
• Components need only visual inspection, not mechanical testing

COMPLETELY FIELD SERVICEABLE
Whenever the ReLoad™ SRL is in service, full inspection can be undertaken quickly and easily, enabling complete field serviceability, performed on site by a trained technician — a totally unique range in the market. The entire range has been developed in a modular fashion to enable simple key component replacement, so parts can be replaced in a matter of minutes and the unit doesn’t require costly “return to factory” servicing (service charge, labor and downtime). Replacement components available through your 3M Representative include (but are not limited to):
• Cable Assembly
• Energy Absorber
• Labels
• Cases

MEETS GLOBAL INDUSTRY STANDARDS
• ANSI Z359.14
• OSHA 1910.66
• OSHA 1926.502
• CSA Z259.2-98
• Premium Self-Retracting Lanyard
• Vectran™ web lifeline with aluminum housing and snap hook. Designed for general-purpose use and in environments that may be sensitive to contact with traditional steel cable lanyards.

RELOAD™ SELF-RETRACTING LANYARD FEATURES

100% RELIABLE LOCKING MECHANISM
• Constantly moving, the 100% reliable Full Contact™ locking mechanism “clicks” to reassure the user it’s functioning correctly
• Cannot freeze, hang up or corrode
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• Stainless steel components unaffected by water, contaminants, temperature and time

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PATENTED FRICTIONLESS BRAKING SYSTEM
• A frictionless braking system with no moving parts to go out of adjustment
• Individual components can be removed and replaced in minutes due to modular design. Repairs to be performed on site by a trained technician
• Components need only visual inspection, not mechanical testing

COMPLETELY FIELD SERVICEABLE
Whenever the ReLoad™ SRL is in service, full inspection can be undertaken quickly and easily, enabling complete field serviceability, performed on site by a trained technician — a totally unique range in the market. The entire range has been developed in a modular fashion to enable simple key component replacement, so parts can be replaced in a matter of minutes and the unit doesn’t require costly “return to factory” servicing (service charge, labor and downtime). Replacement components available through your 3M Representative include (but are not limited to):
• Cable Assembly
• Energy Absorber
• Labels
• Cases

MEETS GLOBAL INDUSTRY STANDARDS
• ANSI Z359.14
• OSHA 1910.66
• OSHA 1926.502
• CSA Z259.2-98
• Premium Self-Retracting Lanyard
• Vectran™ web lifeline with aluminum housing and snap hook. Designed for general-purpose use and in environments that may be sensitive to contact with traditional steel cable lanyards.
**M SERIES** | MID-RANGE CABLE SELF-RETRACTING LANYARDS

The M Series of self-retracting lanyards offers an economical option suitable for most general-purpose work environments. Available with a galvanized steel cable lifeline and aluminum housing, providing increased durability.

### M-15 Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 15 foot galvanized cable lifeline with aluminum housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>LIFELINE MATERIAL</th>
<th>HOUSING TYPE</th>
<th>WEIGHT OF UNIT</th>
<th>HOUSING HARDWARE</th>
<th>LIFELINE HARDWARE</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-15</td>
<td>15 ft.</td>
<td>GALVANIZED CABLE</td>
<td>ALUMINUM</td>
<td>6.3 lbs.</td>
<td>Swivel-Top Carabiner</td>
<td>■</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2-08

**RLD SERIES** | MID-RANGE CABLE SELF-RETRACTING LANYARDS

The RLD Series of self-retracting lanyards offers an economical option suitable for most work environments. Available with galvanized steel cable ranging in length from 10 feet to 50 feet, with polymer housing.

### RLD-10S Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 10 foot galvanized cable lifeline with polymer housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>LIFELINE MATERIAL</th>
<th>HOUSING TYPE</th>
<th>WEIGHT OF UNIT</th>
<th>HOUSING HARDWARE</th>
<th>LIFELINE HARDWARE</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLD-10S</td>
<td>10 ft.</td>
<td>GALVANIZED CABLE</td>
<td>POLYMER</td>
<td>5.1 lbs.</td>
<td>Swivel-Top Carabiner</td>
<td>■</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2-08

### RLD-30 Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 30 foot galvanized cable lifeline with polymer housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>LIFELINE MATERIAL</th>
<th>HOUSING TYPE</th>
<th>WEIGHT OF UNIT</th>
<th>HOUSING HARDWARE</th>
<th>LIFELINE HARDWARE</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLD-30</td>
<td>30 ft.</td>
<td>GALVANIZED CABLE</td>
<td>POLYMER</td>
<td>8.5 lbs.</td>
<td>Swivel-Top Carabiner</td>
<td>■</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2-08

### CORE ITEM

Our best selling equipment — in stock and in demand.
A popular choice, this 3M self-retracting lanyard is a strong-performing web retractable. The aluminum housing offers durability and helps ensure the product is lightweight for the wearer. Features Dyneema® webbing for increased durability.

MS-11 Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is an 11 foot Dyneema® web lifeline with aluminum housing and a snap hook. Designed for general-purpose use and/or for environments that may be sensitive to contact with traditional steel cable.

Leading-Edge Applications

The use of the personal energy absorber is required in leading-edge applications. A personal energy absorber must be placed inline with a self-retracting lanyard to add energy absorption properties at the body end of the system. Reference the Self-Retracting Lanyard User Instruction Manual for additional information on leading edge applications. See page 65 for additional personal energy absorber options.

3012 Personal Energy Absorber

This fall protection personal energy absorber is 18 inches and includes a snap hook and D-ring.

LANYARDS | MS SERIES SELF-RETRACTING

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>LIFELINE MATERIAL</th>
<th>HOUSING TYPE</th>
<th>WEIGHT OF UNIT</th>
<th>HOUSING HARDWARE</th>
<th>LIFELINE HARDWARE</th>
<th>DUAL-LEG</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-11</td>
<td>11 ft.</td>
<td>WEB</td>
<td>SWIVEL,HOOK</td>
<td>4.4 lbs.</td>
<td>SWIVEL-Top Container</td>
<td>SWIVEL-Top Container</td>
<td>310 lbs.</td>
<td></td>
</tr>
<tr>
<td>MS-11/0241</td>
<td>11 ft.</td>
<td>WEB</td>
<td>SWIVEL,HOOK</td>
<td>5.1 lbs.</td>
<td>SWIVEL-Top Container</td>
<td>SWIVEL-Top Container</td>
<td>310 lbs.</td>
<td></td>
</tr>
<tr>
<td>MS-16</td>
<td>16 ft.</td>
<td>WEB</td>
<td>SWIVEL,HOOK</td>
<td>4.5 lbs.</td>
<td>SWIVEL-Top Container</td>
<td>SWIVEL-Top Container</td>
<td>310 lbs.</td>
<td></td>
</tr>
<tr>
<td>MS-30</td>
<td>30 ft.</td>
<td>WEB</td>
<td>SWIVEL,HOOK</td>
<td>6.5 lbs.</td>
<td>SWIVEL-Top Container</td>
<td>SWIVEL-Top Container</td>
<td>310 lbs.</td>
<td></td>
</tr>
<tr>
<td>MS-50</td>
<td>50 ft.</td>
<td>WEB</td>
<td>SWIVEL,HOOK</td>
<td>12.5 lbs.</td>
<td>SWIVEL-Top Container</td>
<td>SWIVEL-Top Container</td>
<td>310 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2-98.
A stronger connection, to give you greater performance.

**ENERGY-ABSORBING LANYARDS**

When working at height, your confidence in the strength, durability and construction of your fall arrest lanyard are at the forefront of 3M’s mission. We offer a wide range of energy-absorbing lanyards designed to meet a variety of industry applications. These products have been developed and tested to meet many fall protection performance standards as well as your own expectations.

**CONSIDERATIONS FOR CHOOSING AN ENERGY-ABSORBING LANYARD:**

Your comfort, budget, and specific work environment needs are of utmost importance.

1. **WORK ENVIRONMENT**
   When choosing a lanyard, it’s important to consider the conditions of your work environment. From harsh marine and mining to oil and gas to general purpose, getting the best use out of a lanyard depends on understanding where — and how — it will be used.

2. **COST vs. LENGTH AND MATERIAL**
   Choose from a wide range of our competitively-priced options to fit your budget requirements. Available in 3 feet, 4 feet, 5 feet, 4 feet–6 feet or 6 feet adjustable or expandable options, depending on range of movement needed.

3. **CONNECTORS AND HOOKS**
   
   **LANYARD HARDWARE**

4. **HOW DO ENERGY ABSORBERS DIFFER IN LANYARD CHOICES?**
   OSHA 29 CFR 1910.66 Appendix C Section I (d)(1) and 1926.502(d)(16) state that personal arrest systems, when stopping a fall, shall limit maximum arresting force on an employee to 1,800 lbs. (8 kN) when used with a body harness.

   Many 3M lanyards keep forces below 900 lbs. (4 kN), and all 3M lanyards keep forces below 1,800 lbs. (8 kN). External or integrated styles are available, depending on preference.

   **Safety Hook** for connecting to back D-ring of harness or anchorage connector

   **Rebar Hook** for use when climbing and/or on rebar

   **Tie-Back Carabiner**

   **EXTERNAL** | Tearweb is packed in a PVC sleeve and tears out during a fall arrest. External energy absorber attaches to back D-ring of harness.

   **INTEGRATED** | Energy absorber is incorporated throughout the length of the lanyard in a low profile (tubular) design. Available in expandable or non-expandable options.
These expandable lanyards have integrated energy absorption and stretch from 4 feet to 6 feet to help reduce trip hazards. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. Meets the requirements of ANSI Z359.1-2007 standard. 3,600 lbs. gate rated hardware.

4712-6 SafeAbsorb Xtra-Expandable Energy-Absorbing Lanyard
This premium expandable lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with two snap hooks and integrated energy absorption. Designed for general-purpose work environments.

4750 SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard
This premium expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with three snap hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

4750/0241 SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard
This premium expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, two rebar hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

4712-6/0241 SafeAbsorb Xtra-Expandable Energy-Absorbing Lanyard
This premium expandable lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, one rebar hook and integrated energy absorption. Designed for general-purpose work environments.

4750/0241 SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard with D-Ring Extender
This expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, two rebar hooks, a D-ring extender and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

<table>
<thead>
<tr>
<th>LANYARDS</th>
<th>PREMIUM SAFEABSORB XTRA-EXPANDABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT NUMBER</td>
<td>LENGTH</td>
</tr>
<tr>
<td>4712-6</td>
<td>4 ft.–6 ft.</td>
</tr>
<tr>
<td>4712-6/0241</td>
<td>4 ft.–6 ft.</td>
</tr>
<tr>
<td>4750</td>
<td>4 ft.–6 ft.</td>
</tr>
<tr>
<td>4750/0241</td>
<td>4 ft.–6 ft.</td>
</tr>
<tr>
<td>4750/0241E</td>
<td>4 ft.–6 ft.</td>
</tr>
</tbody>
</table>

CORE ITEM Our best selling equipment — in stock and in demand.
The SafeAbsorb lanyards include 6 foot web and cable offerings with external energy absorbers that meet ANSI Z359.13-2009 standards. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. 3,600 lbs. gate rated hardware.

### WEB

**3512**
SafeAbsorb Energy-Absorbing Lanyard
This mid-range 6 foot lanyard comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.

**3512-0241**
SafeAbsorb Energy-Absorbing Lanyard
This mid-range 6 foot lanyard comes with one snap hook, one rebar hook and an external energy absorber. Designed for general-purpose work environments.

**3550**
SafeAbsorb Energy-Absorbing Dual-Leg Lanyard
This mid-range 6 foot dual-leg lanyard comes with three snap hooks and an external energy absorber. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

**3550-0241**
SafeAbsorb Energy-Absorbing Dual-Leg Lanyard
This mid-range 6 foot dual-leg lanyard comes with one snap hook, two rebar hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.

### CABLE

**3612**
SafeAbsorb Energy-Absorbing Cable Lanyard
This mid-range 6 foot cable lanyard comes with two snap hooks and an external energy absorber. Designed for extra durability and is ideal for abrasive, high-heat or harsh environments.

**3612-0241**
SafeAbsorb Energy-Absorbing Cable Lanyard
This mid-range 6 foot cable lanyard comes with one snap hook, one rebar hook and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments.

**3612-D**
SafeAbsorb Energy-Absorbing Dual-Leg Cable Lanyard
This mid-range 6 foot cable dual-leg lanyard comes with three snap hooks and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments. Dual-leg style allows for 100% tie-off.

**3612-D-0241**
SafeAbsorb Energy-Absorbing Dual-Leg Cable Lanyard
This mid-range 6 foot cable dual-leg lanyard comes with one snap hook, two rebar hooks and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments. Dual-leg style allows for 100% tie-off.

Our best selling equipment — in stock and in demand.
### Lanyards | Entry-Level Energy-Absorbing Lanyards

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Length</th>
<th>Energy Absorber</th>
<th>Connectors</th>
<th>Style</th>
<th>Weight Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>209510</td>
<td>3 ft.</td>
<td>External</td>
<td>2</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209511</td>
<td>4 ft.</td>
<td>External</td>
<td>2</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209511-0241</td>
<td>4 ft.</td>
<td>External</td>
<td>1, 1</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209512</td>
<td>6 ft.</td>
<td>External</td>
<td>2</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209512-0241</td>
<td>6 ft.</td>
<td>External</td>
<td>1, 1</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209570</td>
<td>6 ft.</td>
<td>External</td>
<td>3</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209570-0241</td>
<td>6 ft.</td>
<td>External</td>
<td>1, 2</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209570-4</td>
<td>4 ft.</td>
<td>External</td>
<td>3</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>209570-4-0241</td>
<td>4 ft.</td>
<td>External</td>
<td>1, 2</td>
<td>Single-leg</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

**External Energy Absorber**

- **209512** SafeLight Energy-Absorbing Lanyard
  - This entry-level 6-foot lanyard comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.

- **209512-0241** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot dual-leg lanyard comes with two snap hooks and one rebar hook and an external energy absorber. Designed for general-purpose work environments.

- **209550** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot dual-leg lanyard comes with two rebar hooks and an external energy absorber. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

- **209550-0241** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot dual-leg lanyard comes with two snap hooks, one rebar hook, and an external energy absorber. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

---

**Lanyards | Entry-Level External Safelight**

Our economy lanyard is available with an external energy absorber or integrated energy absorber. Choose from 3 foot, 4 foot, or 6 foot lengths and single-leg or dual-leg options. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. Meets the requirements of ANSI Z359.1-2007 standard. 3,600 lbs. gate rated hardware.

**Integrated Energy Absorber**

- **209712** SafeLight Energy-Absorbing Lanyard
  - This entry-level 6-foot low-profile (tubular) lanyard comes with two snap hooks and integrated energy absorption. Designed for general-purpose work environments.

- **209712-0241** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot low-profile (tubular) lanyard comes with one snap hook, one rebar hook and integrated energy absorption. Designed for general-purpose work environments.

- **209750** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot low-profile (tubular) lanyard comes with three snap hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

- **209750-0241** SafeLight Energy-Absorbing Dual-Leg Lanyard
  - This entry-level 6-foot low-profile (tubular) lanyard comes with one snap hook, two rebar hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

**Core Item**

Our best selling equipment — in stock and in demand.
Because no two work environments are exactly the same, 3M offers a variety of unique specialty lanyards designed to suit your specific needs. With a variety of options offering the same quality protection and construction, the choice is yours.

TIE-BACK [ANCHOR/LANYARD COMBO]

Tie-back lanyards offer a two-in-one solution by combining your lanyard and anchorage connector into one superior-quality, high-strength fall arrest unit. Tie-backs not only reduce inventory and cost, they offer greater versatility while still meeting industry safety requirements.


**ENERGY-ABSORBING LANYARDS**

3520
- Saturn High-Heat Energy-Absorbing Lanyard
  - This 6 foot lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with two snap hooks, an external energy absorber.

3520-D
- Saturn High-Heat Energy-Absorbing Dual-Leg Lanyard
  - This 6 foot dual-leg lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with three snap hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.

3531
- Saturn High-Heat Energy-Absorbing Dual-Leg Lanyard
  - This 6 foot dual-leg lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with one snap hook, one rebar hook and an external energy absorber.

3531-D
- Saturn High-Heat Energy-Absorbing Dual-Leg Lanyard
  - This 6 foot dual-leg lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with one snap hook, two rebar hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.

**TIE-BACK [ANCHOR/LANYARD COMBO]**

3812
- Tie-Back Energy-Absorbing Lanyard
  - This is a 6 foot lanyard with one snap hook, one tie-back hook, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. 5,000 lbs. rated hardware.

3813
- Tie-Back Energy-Absorbing Dual-Leg Lanyard
  - This is a 6 foot dual-leg lanyard with one snap hook, two tie-back hooks, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 5,000 lbs. rated hardware.

3560
- Tie-Back Energy-Absorbing Dual-Leg Lanyard
  - This is a 6 foot dual-leg lanyard with three snap hooks, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 3,600 lbs. gate rated hardware.

3561
- Tie-Back Energy-Absorbing Dual-Leg Lanyard
  - This is a 6 foot lanyard that comes with two snap hooks, an external energy absorber, and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 3,600 lbs. gate rated hardware.

3813
- Tie-Back Energy-Absorbing Dual-Leg Lanyard
  - This is a 6 foot dual-leg lanyard with one snap hook, two tie-back hooks, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 5,000 lbs. rated hardware.

**LANEYARDS | SPECIALTY — TIE-BACK**

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>ENERGY ABSORBER</th>
<th>CONNECTORS</th>
<th>STYLE</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3560</td>
<td>6 ft.</td>
<td>$3</td>
<td>$1</td>
<td>$1</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>3561</td>
<td>6 ft.</td>
<td>$2</td>
<td>$1</td>
<td>$1</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>3562</td>
<td>6 ft.</td>
<td>$1</td>
<td>$2</td>
<td>$1</td>
<td>310 lbs.</td>
</tr>
</tbody>
</table>

**LANEYARDS | SPECIALTY — SATURN**

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENGTH</th>
<th>ENERGY ABSORBER</th>
<th>CONNECTORS</th>
<th>STYLE</th>
<th>WEIGHT RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>3520</td>
<td>6 ft.</td>
<td>$2</td>
<td>$1</td>
<td>$1</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>3520-D</td>
<td>6 ft.</td>
<td>$3</td>
<td>$1</td>
<td>$1</td>
<td>310 lbs.</td>
</tr>
<tr>
<td>3531</td>
<td>6 ft.</td>
<td>$1</td>
<td>$2</td>
<td>$1</td>
<td>400 lbs.</td>
</tr>
<tr>
<td>3531-D</td>
<td>6 ft.</td>
<td>$1</td>
<td>$2</td>
<td>$1</td>
<td>400 lbs.</td>
</tr>
</tbody>
</table>

**3M™ Fall Protection Catalog | 3M.com/FallProtection | 63**
APACHE [USE WITH APACHE HARNESs]
The Apache lanyard is engineered and manufactured for workers who are 311 lbs.–400 lbs. (total working weight). Must be used with a 400 lbs. capacity harness, such as the 3M™ Apache Harness.

3530-E Apache Energy-Absorbing Lanyard
This 6 foot lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.—capacity harness.

3530-DE Apache Energy-Absorbing Dual-Leg Lanyard
This 6 foot dual-leg lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with three snap hooks and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.—capacity harness. Dual-leg style allows for 100% tie-off.

3530-E-0241 Apache Energy-Absorbing Lanyard
This 6 foot lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with one snap hook, one rebar hook and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.—capacity harness.

3530-DE-0241 Apache Energy-Absorbing Dual-Leg Lanyard
This 6 foot dual-leg lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with two rebar hooks, one snap hook and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.—capacity harness. Dual-leg style allows 100% tie-off.

PERSONAL ENERGY ABSORBERS
Personal energy absorbers are the “shock pack” energy absorber and are 18 inches or 24 inches long. These compact lanyards are ideal for use in aerial lifts, bucket trucks, vertical lifelines and leading edges when a short lanyard is preferred. See page 53 for additional information for use on leading edges.

3012 Personal Energy Absorber
This fall protection personal energy absorber is 18 inches and has a snap hook and D-ring.

3011-C2 Personal Energy Absorber
This fall protection personal energy absorber is 24 inches and has two snap hooks.

POWERSTOP [12 FOOT FREEFALL FOR FOOT-LEVEL ANCHOR]
When you need to connect to an anchorage connector at foot level, the Powerstop lanyards safely arrest forces of a 12 foot freefall that are generated with working surface tie-off. Meets requirements of the ANSI Z359.13-2009 standard.

3530 Powerstop Energy-Absorbing Lanyard
This 6 foot lanyard arrests forces of a 12 foot freefall that are generated with working surface tie-off. Comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.

3530-D Powerstop Energy-Absorbing Dual-Leg Lanyard
This 6 foot dual-leg lanyard arrests forces of a 12 foot freefall that are generated with working surface tie-off. Comes with three snap hooks. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.
Restraint, from a position of strength.

POSITIONING DEVICES

3M positioning devices keep you connected. Our rebar assemblies and positioning lanyards and belts operate in horizontal or vertical positions, enabling users to work with both hands free and improve productivity. Various lengths and connectors are available. With 3M positioning devices, working safe and being productive go hand in hand.

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>SIZE</th>
<th>SERIES</th>
<th>CONNECTORS</th>
<th>BELT</th>
<th>WEIGHT RATING</th>
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</thead>
<tbody>
<tr>
<td>2011</td>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>400 lbs.</td>
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<tr>
<td>2111</td>
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<td></td>
<td>Yes</td>
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<tr>
<td>2410</td>
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<td>400 lbs.</td>
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<td>3110</td>
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<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>3 ft.</td>
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<tr>
<td>3111</td>
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<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>4 ft.</td>
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<tr>
<td>3112</td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>6 ft.</td>
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<tr>
<td>3210</td>
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<td></td>
<td>No</td>
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<td>3 ft.</td>
</tr>
<tr>
<td>3211</td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>4 ft.</td>
</tr>
<tr>
<td>3212</td>
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<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>6 ft.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>4-6 ft.</td>
</tr>
<tr>
<td>3312</td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td>400 lbs.</td>
<td>6 ft.</td>
</tr>
</tbody>
</table>

Positioning spreader bar hooks also available, as shown above with SKUs 3708-SBH and 3709-SBH.

**CORE ITEM** Our best selling equipment — in stock and in demand.

2011

Positioning Belt with Waist D-rings

Positioning belts are part of a positioning or travel restraint system. This belt has 3 inch yellow web padding and two waist D-rings. 400 lbs. capacity. Available in sizes Small to XX-Large.

3708-SBH

Positioning Equipment Spreader Bar Hook with Carabiner 3708-SBH

For positioning only. It brings waist D-rings closer together at the front of a harness. The carabiner connects to the anchorage or anchorage connector.

SP3710-S S

Rebar Positioning Chain Assembly

This 13-link rebar chain assembly for positioning only. Its swivel rebar hook allows for a wider range of movement. Features two snap hooks and one rebar hook. 400 lbs. capacity.

3709-SBH

Rebar Positioning Web Lanyard with Spreader Bar Hook and Rebar Hook

For positioning only. It brings waist D-rings closer together at the front of a harness. The large rebar hook connects to the anchorage or anchorage connector.

3212

Web Positioning Lanyard

Web lanyard is 6 feet long and 1 inch wide. Features two snap hooks. 400 lbs. capacity.

Warning: Web positioning belts, lanyards and assemblies are for positioning only and must never be used for personal fall arrest.
A secure connection for confidence while working.

As soon as you attach yourself to a 3M™ Fall Protection anchorage connector, it’s hard not to grow attached to that feeling of safety. Knowing you’re secure helps you to confidently get the job done. Whether it’s a rooftop or beam, concrete or steel, you’ll feel as grounded as you did the moment before you started the climb up.

CONSIDERATIONS FOR CHOOSING AN ANCHORAGE CONNECTOR:

1. Will the anchor need to be temporary, permanent or removable?
   - TEMPORARY ANCHORS are designed to be used on one job site. Upon job completion, they can be integrated into the structure and cannot be removed. Intended for single job use.
   - PERMANENT ANCHORS are installed once and can either be removed upon job completion or left on the structure for future reuse.
   - REMOVABLE ANCHORS can be easily inserted and removed throughout the job or at the end of the job, enabling workers to reuse the anchor at various places.

2. What surface are you connecting to — steel, concrete, roof, etc.?
   - CONCRETE Available in temporary, permanent or removable applications for horizontal or vertical surfaces.
   - ROOFING Temporary and removable options available for wood and/or metal decking on flat or pitched roofs.
   - I-BEAM All of our I-Beam anchors are removable. Fixed or mobile options available.
   - PIPE or REBAR All of our pipe anchors are removable. Fixed or mobile options available.
   - STEEL Available in permanent or removable applications for horizontal or vertical surfaces.

ANCHORAGE CONNECTORS
For many fall protection systems, an anchorage connector needs to be compatible with cured concrete or concrete-forming work. 3M provides solutions to this need. 3M reusable concrete anchors are engineered with strength, security and flexibility in mind and designed for easy insertion and removal. The concrete bolt anchors can be used in temporary or permanent applications. The durable concrete anchor straps are available in varying lengths to conform to your needs. This economical option provides mounting options to concrete ceilings, walls and floors. With a 3M concrete anchorage connector, the greatest component of fall protection is peace of mind.

**4077 SafeClaw™ Reusable Concrete Anchorage Connector**

This fall protection reusable concrete anchor can easily be inserted into and removed from cured concrete to quickly provide a secure anchor point. Provides movement flexibility with up to 90° of flex.
- Drill hole dimensions: 1 inch width x 4-1/2 inch depth
- Concrete must have compressive strength of at least 3,000 psi
- Minimum tensile breaking strength: 10,000 lbs.
- Can be used with 3M horizontal lifeline systems

**4075 SafeClaw™ Reusable Concrete Anchorage Connector**

This fall protection reusable concrete anchor can easily be inserted into and removed from cured concrete to quickly provide a secure anchor point. Provides movement flexibility with up to 90° of flex.
- Drill hole dimensions: 3/4 inch width x 3 inch depth
- Concrete must have compressive strength of at least 3,000 psi
- Minimum tensile breaking strength: 5,000 lbs.

**4012-RC Six piece Replacement Concrete Bolt Set**

For 4012-C Mega Swivel Concrete Anchorage Connector. Allows user to reuse swivel D-ring from anchorage connector in different locations.

**4012-C Mega Swivel Concrete Anchorage Connector**

This fall protection concrete bolt anchorage connector is for use in temporary, permanent and reusable applications. Design includes a swivel D-ring for 360° movement that is combined with an anchor bolt.
- Drill hole dimensions: 3/4 inch x 4-1/2 inches deep
- Concrete must have compressive strength of at least 3,000 psi and minimum thickness of 5 inches.
- Minimum tensile breaking strength: 5,000 lbs.

**4823 Concrete Anchor Strap**

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes a steel D-ring and soft loop with wear pad.
- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Wear pad for improved abrasion resistance
- Also available in other lengths

**4824 Concrete Anchor Strap**

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes a steel D-ring and soft loop.
- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.

**4825 Concrete Anchor Strap**

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes two soft loop ends.
- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.
Whether you’re working on a roof that’s commercial or residential, 3M roofing anchorage connectors are an essential part of your fall protection system. We offer a variety of roofing anchor options to accommodate the variety of different roofs — be they steel or wood, pitched or flat. From swivel-top to standing-seam, 3M roofing anchors deliver strong, durable connections without affecting structural integrity. 3M roof anchorage connectors keep you secure so you can work confidently.

### Reusable Roof Anchorage Connectors

#### 4009
Reusable Standing Seam Roof Anchorage Connector

This economical fall protection roof anchorage connector is a reusable anchor with hinged steel design for use on wood and metal decking.

- Minimum tensile breaking strength: 5,000 lbs.
- Easy rooftop installation & removal
- Can be used as part of a 3M horizontal lifeline
- Suitable for flat or pitched roofs

#### 4000
Reusable Roof Anchorage Connector

This economical fall protection roof anchorage connector is a reusable anchor with hinged steel design for use on wood and metal decking.

- Minimum tensile breaking strength: 5,000 lbs.
- Easy rooftop installation & removal
- Can be used as part of a 3M horizontal lifeline
- Suitable for flat or pitched roofs

### Permanent Roof Anchorage Connectors

#### 4100
Permanent Roof Anchorage Connector — Small

This fall protection roof anchor is a permanent anchor that includes a flashing base and cover and is intended for use on wood only.

- Minimum tensile breaking strength: 3,600 lbs.
- Product dimensions: 2 inches x 4 inches
- Surface: Roofing — wood only

#### 4101
Permanent Roof Anchorage Connector — Large

This fall protection roof anchor is a permanent anchor that includes a flashing base and cover and is intended for use on wood only.

- Minimum tensile breaking strength: 3,600 lbs.
- Product dimensions: 2 inches x 8 inches
- Suitable for flat or pitched roofs

### Single-Use (Temporary) Roof Anchorage Connectors

#### 4651X
Single-use Economy Roof Anchorage Connector

This fall protection roof anchor is a single-use economy anchor for use on wood only.

- Minimum tensile breaking strength: 1,800 lbs.
- Easy rooftop installation
- Surface: Roofing — wood only
ANCHORAGE CONNECTORS

3M I-Beam anchorage connectors are a main component of many on-site fall protection systems. Designed for dependable attachment to I-Beams, these anchors are an adaptable means of rigging both temporary and reusable safety systems. 3M I-Beam anchors offer secure, portable and reliable connection to beams of varying width.

4650-3 ➡️ BeamWalk Adjustable Sliding Beam Anchorage Connector

BeamWalk adjustable sliding anchor provides horizontal mobility on I-Beams. Lightweight aluminum construction, quick and easy installation. Adjusts from both sides. Beveled sliders allow smooth movement along the beam, moving with the worker.

- Fits beams from 3-1/2 inches to 12 inches wide and up to 1-1/4 inches thick
- Minimum tensile breaking strength: 5,000 lbs.

4650-2V ➡️ Vertical Beam Clamp Anchorage Connector

Stationary beam anchor provides a fixed anchor point for an I- or H-Beam in vertical or horizontal position.

- Fits beams up to 12 inches wide and 1 inch thick
- Minimum tensile breaking strength: 5,000 lbs.

CORE ITEM Our best selling equipment — in stock and in demand.
Available in several lengths for varying applications, 3M pipe and rebar anchorage connectors are made to wrap around structures to form secure anchor points. 3M pipe and rebar anchor points may be used in horizontal and vertical applications. All our anchor points are ideally suited for quick installations, making convenience and ease highlights.

### 4550-U-6
**Heavy-Duty Cross-Arm-Strap Anchorage Connector**
This fall protection 6 foot heavy-duty cross-arm strap is a low-cost general-purpose anchorage connector with wear pad designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.
- 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 3 foot length and in custom lengths in 2 foot increments up to 20 feet. Contact your 3M Representative for more information.

### 4550-U-3
**Heavy-Duty Cross-Arm-Strap Anchor — 3 feet**

### 4550-6
**Cross-Arm-Strap Anchorage Connector**
This fall protection 6 foot cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.
- 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 3 foot length and in custom lengths in 2 foot increments up to 20 feet. Contact your 3M Representative for more information.

### 4550-3
**Cross-Arm-Strap Anchor — 3 feet**

### 4550-A
**Adjustable Cross-Arm-Strap Anchorage Connector**
This fall protection adjustable 4 foot to 6 foot cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.
- 4 foot to 6 foot length x 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.

### 4551
**Scaffolding Cross-Arm-Strip Anchorage Connector**
This fall protection scaffolding cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around 3 inch maximum diameter structures. Convenient and ideally suited for quick and easy installations.
- 1-1/2 foot length x 1 inch width
- Minimum tensile breaking strength: 5,000 lbs.

### 4550-E
**Apache Cross-Arm-Strip Anchorage Connector**
This fall protection cross-arm strap is a low-cost general-purpose anchorage connector with a 3 inch wear pad designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.
- 6 foot length x 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.

### 4550-SCS-6
**Cable Pass Thru Cross-Arm-Strip Anchorage Connector**
This fall protection 6 foot cable cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around typical I-Beam or pipe application for overhead tie-off. Cable provides additional durability. Suited for quick and easy installations.
- 1/4 inch width galvanized steel cable
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 4 foot length

### 4550-SCS-4
**Cable Pass Thru Cross-Arm-Strip Anchorage Connector — 4 feet**

### 251
**Manuclave Anchor Clamp**
This fall protection anchor clamp is a spring loaded stainless steel wire clamp for use on pipe. Suited for quick and easy installations. Provides increased fall clearance versus a cross-arm-strap anchor.
- For use on pipes up to 4 inches in diameter
- Minimum tensile breaking strength: 5,000 lbs.

### 252
**Manuclave Anchor Clamp**
- For use on pipes up to 6 inches in diameter
- Minimum tensile breaking strength: 5,000 lbs.

CORE ITEM Our best selling equipment — in stock and in demand.
3M™ Fall Protection is dedicated to providing you steel anchorage connectors that meet the demands of the job. We offer a wide variety of permanent, temporary, and reusable anchorage connectors. These heavy-duty steel devices are designed to be lightweight, easily installed and reliable to give you the confidence to take on risk.

**4011 SafeLok Reusable Anchorage Connector**
This fall protection reusable anchor can easily be inserted into and removed from precast or hollow-core concrete to form a secure anchor point. It can also be used on steel beams.
- Drill-hole dimensions: Drill a 3/4 inch diameter hole through center of hollow-core or 1-1/2 inch concrete with a minimum compressive strength of 5,000 psi.
- Minimum tensile breaking strength: 5,000 lbs.

**4012-S Mega Swivel Steel Bolt Anchorage Connector**
This fall protection anchor can be used in temporary and reusable applications. Design includes a swivel D-ring for 360° that is combined with a steel anchor bolt.
- Drill hole 5/8 inch with steel that is a minimum thickness of 1/4 inch
- Minimum tensile breaking strength: 10,000 lbs.

**4004 Permanent D-Bolt Anchorage Connector**
This fall protection anchor is for use on concrete, metal or wood surfaces. Design includes a D-bolt with mounting plate and floating D-ring for anchor tie-off. This permanent anchor can be bolted or welded to a structure.
- Minimum tensile breaking strength: 5,000 lbs.

**4005 Permanent D-Bolt Anchorage Connector**
This fall protection anchor is for use on concrete, metal or wood surfaces. Design includes D-bolt anchor with 1-1/2 inch diameter bolt, nut and washer hardware. This permanent anchor can be bolted or welded to a structure.
- Minimum tensile breaking strength: 5,000 lbs.

**FS-92 Anchorage Connector**
This temporary and reusable fall protection anchorage connector can be connected to any anchor that meets 3,600 lbs or 5,000 lbs. requirements. Its shape is ideal for perifor, a concrete-forming panel, and fits in the hole of the panel. Design includes 1-1/2 inch eye diameter and 3-1/3 inch anchorage opening. Length:12-1/8 inch.
- Minimum tensile breaking strength: 5,000 lbs.

**CORE ITEM** Our best selling equipment — in stock and in demand.
Horizontal lifeline systems are used to protect workers when they are exposed to a fall hazard along a horizontal plane and access to overhead anchor points is limited. Horizontal lifelines are pre-engineered and designed as part of a complete personal fall arrest system to help limit the fall arrest forces in the event of a fall. They can be used for fall arrest or travel restraint.

CONSIDERATIONS FOR CHOOSING A HORIZONTAL LIFELINE SYSTEM:

1. What is the maximum number of workers using the system at one time?
   - Up to two people — choose a rope or cable lifeline.
     - Rope (ideal for indoor use) — choose our Sidewalk Rope System (100 foot maximum), page 86
     - Cable (ideal for outdoor use) — choose our SafeReach System (100 foot maximum), page 87, or our Mobile Skywalk System, page 82.
   - Up to four people — choose our Mobile Skywalk System, page 82.

2. What is the total system length (anchor point to anchor point)? (L)
   - A variety of rope and cable lengths are available.

ADDITIONAL CONSIDERATIONS, IF CHOOSING A MOBILE SKYWALK SYSTEM:

3. What is the total system length (anchor point to anchor point)? (L)
   - Less than 200 ft. — requires one PowerBrake.
   - 200 ft. or greater — requires a second PowerBrake.

4. What is the height of the walking/working surface to the ground or danger level? (F)
   - This determines the number of intermediates required.

5. What is the height of the walking/working surface to the proposed anchorage? (H)
   - This determines the height of the stanchion.

6. What are the anchor points?
   - Are prefabricated anchorages needed? See page 83 for anchorage options.
   - Are post systems needed? See page 83 for anchorage options.

Horizontal lifeline systems are highly technical. Please contact your 3M Representative for assistance on how to select a lifeline for your work environment/application.
The 3M™ Mobile Skywalk system provides workers an increased working range without sacrificing safety in leading edge applications. The PowerBrake energy absorber allows for a four-man tie-off while keeping fall clearance requirements low. A versatile array of anchorage connectors have been designed for a wide range of work surfaces, including pour-in-place and pre-poured concrete. The Mobile Skywalk system also offers a permanent or a temporary cable tensioning device to help facilitate easy installation.

The Mobile Skywalk system is ideal for more than two workers, low fall clearance requirements and/or anchoring to concrete.

**Lifeline System Component Overview**

These lifeline system components represent the major categories needed to construct a Mobile Skywalk system. For specific parts within each category, refer to page 83.

### Anchorage Connectors
- **SWMS-06**: Aluminum Post Stanchion — end/intermediate stanchion is 7-1/2 ft. long with a 3-1/2 in. outside diameter. Each post has two sets of 9/16 in. holes set 4 in. apart and at 90° for the SWMS-01 Eye Bolt (not included).
- **SWMS-08A**: Stainless Steel Cable for the Mobile Skywalk horizontal lifeline systems. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.
- **SWMS-100**: SWMS-100 for the Mobile Skywalk Cable once adjustment is complete. Thimble is included with cable assembly and is installed inside the loop to preserve the natural shape of the eye and protect the cable from pinching and abrasion on the inside of the eye. The Thimble prevents the load from coming into direct contact with the wires. Available as a replacement part.
- **SWMS-200**: Cable lifeline traveler is for cable or rope lifelines up to 1/2 in. thick.

### PowerBrake
- **PowerBrake Cables Assemblies**
  - SWMS-30
  - SWMS-60
  - SWMS-100
  - SWMS-200
  - SWMS-30-SS
  - SWMS-60-SS
  - SWMS-100-SS
  - SWMS-200-SS
  - Stainless Steel Cable for the Mobile Skywalk horizontal lifeline systems. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.

### Accessories
- **SWMS-01**: Eye Bolt for the Aluminum Post Stanchion is 5 in. long with a 1 in. inside diameter eye and comes with a washer and nut.
- **SWMS-18**: PowerBrake — the inline energy absorber is designed to limit the maximum arrest load to less than 1,650 lbs. on the end anchorages. This is a required component.

### Tensioners
- **SWMS-04**: Tumbudgele adjusts from 18 in. to 28 in. and is used to adjust tension in the Mobile Skywalk system. Ideal for use with shorter lifeline systems.
- **SWMS-05**: Come-Along adjusts tension in the Mobile Skywalk lifeline. It must always be used in conjunction with the SWMS-01 Adjustable Safety Link. A standard carabiner (not included) on each end is used to connect it to the system.

### Other anchorage connector options are available for use with the Mobile Skywalk. Please contact your 3M Representative for more information.

### SWPC-17**: Available in early 2014. To order custom lengths prior, use product code SWMS-00 and state length required. Contact 3M Sales Representatives for more information.

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[Diagram of anchorage connectors, swivels, and tensioners]
**MOBILE SKYWALK KITS**

**UP-TO FOUR-MAN HORIZONTAL LIFELINE**

---

### Four-Man Horizontal Lifeline less than 200 feet total system length

**Come-Along Kit**

- SWWSW-08A Aluminum Post Stanchion
- SWWSW-18 PowerBrake
- SWWSW-02 Come-Along
- SWWSW-05 Adjustable Safety Link
- SWWSW-11 Fist Grips
- SWWSW-07 Carabiner
- SWWSW-12T Thimble
- SWPC-17 Pre-Tensioner
- SWPC-17 Galvanized or Stainless Steel Mobile Skywalk Cable Assembly

**Come-Along Kit includes:**

- SWWKIT1 SWMS-30-SS 3M™ 30 ft. Stainless Steel Cable
- SWWKIT2 SWMS-30 3M™ 30 ft. Galvanized Steel Cable
- SWWKIT5 SWMS-60-SS 3M™ 60 ft. Stainless Steel Cable
- SWWKIT6 SWMS-60 3M™ 60 ft. Galvanized Steel Cable
- SWWKIT9 SWMS-100-SS 3M™ 100 ft. Stainless Steel Cable
- SWWKIT10 SWMS-100 3M™ 100 ft. Galvanized Steel Cable
- SWWKIT13 SWMS-200-SS 3M™ 200 ft. Stainless Steel Cable
- SWWKIT14 SWMS-200 3M™ 200 ft. Galvanized Steel Cable

**Kits shown on pages 84 and 85 will be available in early 2014.**

---

### Four-Man Horizontal Lifeline less than 200 feet total system length

**Turnbuckle Kit**

- SWWSW-08A Aluminum Post Stanchion
- SWWSW-18 PowerBrake
- SWWSW-02 Come-Along
- SWWSW-05 Adjustable Safety Link
- SWWSW-11 Fist Grips
- SWWSW-07 Carabiner
- SWWSW-12T Thimble
- SWPC-17 Pre-Tensioner
- SWPC-17 Galvanized or Stainless Steel Mobile Skywalk Cable Assembly

**Turnbuckle Kit includes:**

- SWWKIT3 SWMS-30-SS 3M™ 30 ft. Stainless Steel Cable
- SWWKIT4 SWMS-30 3M™ 30 ft. Galvanized Steel Cable
- SWWKIT7 SWMS-60-SS 3M™ 60 ft. Stainless Steel Cable
- SWWKIT8 SWMS-60 3M™ 60 ft. Galvanized Steel Cable
- SWWKIT11 SWMS-100-SS 3M™ 100 ft. Stainless Steel Cable
- SWWKIT12 SWMS-100 3M™ 100 ft. Galvanized Steel Cable
- SWWKIT15 SWMS-200-SS 3M™ 200 ft. Stainless Steel Cable
- SWWKIT16 SWMS-200 3M™ 200 ft. Galvanized Steel Cable

**Kits shown on pages 84 and 85 will be available in early 2014.**

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**Kits shown on pages 84 and 85 will be available in early 2014.**
3M™ Two-Man Horizontal Lifeline systems are a complete life line system in a bag. Choose cable or rope systems based on work environment. All systems are portable and include a tensioning device to help with proper life line tension.

**HORIZONTAL LIFELINES**

Cable system includes:
- Energy absorber, turnbuckle, carabiner, large carabiner, two O-rings, galvanized cable (available in a variety of lengths), two fist grips, thimble and storage bag.

Rope system includes:
- Two cross-arm straps, two O-rings, two carabiners, tensioner, rope (available in a variety of lengths) and storage bag.

**Product # | Description**
--- | ---
SWHC-20 | 20 ft. horizontal cable lifeline system
SWHC-30 | 30 ft. horizontal cable lifeline system
SWHC-40 | 40 ft. horizontal cable lifeline system
SWHC-50 | 50 ft. horizontal cable lifeline system
SWHC-60 | 60 ft. horizontal cable lifeline system
SWHC-70 | 70 ft. horizontal cable lifeline system
SWHC-80 | 80 ft. horizontal cable lifeline system
SWHC-90 | 90 ft. horizontal cable lifeline system
SWHC-100 | 100 ft. horizontal cable lifeline system

Replacement components are available to order as replacement parts.

**TWO-MAN KITS**

**TEMPORARY HORIZONTAL LIFELINE SYSTEM**

**SideWalk Rope Horizontal Lifeline System (100 Foot Max.)**

0210-07 Carabiner
99-0215 O-ring
0223-XXX Rope
0246-HD Rope Tensioner
4550-6 Cross-arm Strap

**Rope system includes:**
- Two cross-arm straps, two O-rings, two carabiners, tensioner, rope (available in a variety of lengths) and storage bag.

**Replacement Rope 0223-XX:**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0223-30</td>
<td>5/8 in. replacement rope, 30 ft.</td>
</tr>
<tr>
<td>0223-60</td>
<td>5/8 in. replacement rope, 60 ft.</td>
</tr>
</tbody>
</table>

**CORE ITEM** Our best selling equipment — in stock and in demand.

**SafeReach Cable Horizontal Lifeline System (100 Foot Max.)**

SW-247 Energy Absorber
SWSW-XX Cable
SWSW-11 Fist Grips

**Cable system includes:**
- Energy absorber, turnbuckle, carabiner, large carabiner, two O-rings, galvanized cable (available in a variety of lengths), two fist grips, thimble and storage bag.

**Product # | Description**
--- | ---
SWSW-04 | Turnbuckle

Must purchase anchors to use with this kit separately.

Rope system includes:
- Two cross-arm straps, two O-rings, two carabiners, tensioner, rope (available in a variety of lengths) and storage bag.

**Replacement Rope 0223-XX:**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0223-30</td>
<td>5/8 in. replacement rope, 30 ft.</td>
</tr>
<tr>
<td>0223-60</td>
<td>5/8 in. replacement rope, 60 ft.</td>
</tr>
</tbody>
</table>

**Replacement Cable Assemblies SWSW-XX:**

Cable assembly includes replacement cable, one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.

**Product # | Description**
--- | ---
SWSW-04 | Turnbuckle

Replacement components are available to order as replacement parts.
Keeping the risk low as you climb higher.

**VERTICAL LIFELINES**

Vertical lifelines are needed when a worker has long vertical lengths to travel. Instead of having to disconnect and find new tie-off points as workers travel, a vertical lifeline allows them movement up and down the entire height of lifeline. They are designed as part of a complete personal fall arrest system to help limit the forces in the event of a fall.

Vertical lifelines can also be used as part of a travel restraint system.

**CONSIDERATIONS WHEN CHOOSING A VERTICAL LIFELINE:**

**Do you need a permanent or portable system?**

- **PERMANENT** — If the system can remain in place for the duration of the job or for on-going maintenance (i.e., fixed ladder system).
- **PORTABLE** — If the system needs to be removed at end of job or each day (i.e., rope lifeline with rope fall arrester).

**Does your worker need to be mobile or is a fixed positioning device preferred?**

- **MOBILE** — use a self-trailing fall arrester for vertical climbing that allows for free movement and trails the worker as he or she climbs.
- **FIXED** — use a manual rope adjuster that workers must physically move up and down the lifeline, keeping them in a limited work area for restraint.
The 3M™ Ladder Climb Vertical Lifeline is a pre-engineered flexible system designed to meet most vertical applications. The extended top ladder bracket allows users to safely ascend to the next working surface prior to disconnecting from the system. The ladder climb system is available in multiple-length ready-to-order systems and replacement cable and energy absorber assemblies are available. Please note the ladder climb system requires the use of a harness with front D-ring for attachment.

Complete Systems Include:
- RC M400-XXX Cable Assembly
  - 3/8” galvanized steel cable, energy absorber and safety backup cable
- 128 Cable Fall Arrester
- 0210CP-07 Carabiner
- M400-10 Extended Top Bracket
- M400-11* Extended Top Bracket Round Rung Hardware
- M400-2 Bottom Bracket
- M400-3 Fist Grips
- M400-5 Cable Guide

Product # Description
M400-30 Ladder climb system; 30 ft.
M400-40 Ladder climb system; 40 ft.
M400-50 Ladder climb system; 50 ft.
M400-75 Ladder climb system; 75 ft.
M400-100 Ladder climb system; 100 ft.
M400-150 Ladder climb system; 150 ft.
M400-200 Ladder climb system; 200 ft.
M400-300 Ladder climb system; 300 ft.

*System comes with round rung ladder configuration hardware. If using a square rung configuration, order M400-7 Extended Top Bracket Square Rung Hardware.

Replacement Cable Assemblies
- RC M400-XXX Include:
  - 3/8” galvanized steel cable; energy absorber and safety backup cable

Product # Description
RC M400-30 Replacement cable assembly; 30 ft.
RC M400-40 Replacement cable assembly; 40 ft.
RC M400-50 Replacement cable assembly; 50 ft.
RC M400-75 Replacement cable assembly; 75 ft.
RC M400-100 Replacement cable assembly; 100 ft.
RC M400-150 Replacement cable assembly; 150 ft.
RC M400-200 Replacement cable assembly; 200 ft.
RC M400-300 Replacement cable assembly; 300 ft.

Available Replacement Parts:
- M400-10 Extended Top Bracket
- M400-11 Extended Top Bracket Round-Rung Hardware
- M400-7 Extended Top Bracket Square-Rung Hardware

Fall Arrester — Cable
Product # Description
128 3/8” inch self-trailing cable fall arrester for automatic movement with worker. For use with 3M Ladder Climb System M400 Series. Comes with Carabiner 0210CP-07.

Fall Arresters — Rope
These fall arresters are self-trailing rope grabs allowing for automatic movement, trailing behind (or with) worker.

Product # Description
123 Self-trailing 5/8 inch Fall Arrester; Large eye
124 Self-trailing 5/8 inch Fall Arrester; Small eye
3011-RGA 124 Self-trailing 5/8 inch Fall Arrester with permanently attached 18 inch personal energy absorber
124/209509 124 Self-trailing 5/8 inch Fall Arrester with permanently attached 2 foot energy absorbing lanyard
209510/124 124 Self-trailing 5/8 inch Fall Arrester with permanently attached 3 foot personal energy absorber

Rope Adjuster
These rope adjusters are manual rope grabs that must be physically moved up and down by the worker. This keeps the worker in one spot for fall restraint.

Product # Description
0113 5/8” inch stainless steel manual rope adjuster
0116-1 5/8” inch manual rope adjuster

3M™ Fall Protection Catalog | 3M.com/FallProtection
When working in confined spaces, the risk of injury and fatality is extremely high. Successive fatalities often come to the would-be rescuer.

Your safety precautions have to meet the highest standards. We offer the best in confined-space systems so you can confidently provide safe and secure solutions for your workers.

OSHA 1910.146(b) defines "confined space" as any space that:

1. Is large enough and so configured that an employee can bodily enter and perform assigned work; and
2. Has limited or restricted means for entry or exit (for example: tanks, vessels, silos, storage bins, hoppers, vaults and pits are spaces that may have limited means of entry) and
3. Not designed for continuous employee occupancy.

When the chance of a hazard is possible, the space would be considered a “permitted” space. In permitted confined spaces greater than 5 feet deep, a means of retrieval is required, and all entrants must use a full body harness. Fall protection is required in general industry when an employee is exposed to a fall hazard of 4 feet or greater. In construction, fall protection is required at 6 feet or greater.
OVERVIEW OF SYSTEMS AND ACCESSORIES

**Xtirpa™ ADAPTER-BASE SYSTEM**
Fixed Mast and Davit-Arm Assembly use where base can be permanently fixed to an existing structure.

**Xtirpa™ FREE-STANDING H-BASE SYSTEM**
Use to access various confined-space entry points in same area.

**Xtirpa™ MANHOLE COLLAR SYSTEM**
Designed for applications involving frequent setups over similarly sized access openings.

**Xtirpa™ LOW CLEARANCE INTEGRATED MAST AND DAVIT ARM**
Use in any of the 24 inch adapter bases when a shorter clearance is needed. 36 inch height, 18 inch reach.

**Xtirpa™ COUNTERWEIGHT SYSTEM**
For multiple entry point use, this system offers a 30 inch–48 inch davit arm for greater reach.

**3M™ TRIPOD SYSTEM**
Use where an entry point needs to be guarded and when installation of an adapter base is not possible. (Anchor point is incorporated into structure of this system).

**3M™ COUNTERWEIGHT SYSTEM**
Provides connection to davit arm.

**3M™ TRAILER HITCH MOUNT SYSTEM**
Use with vehicles to access typical vertical-entry points or rescue and retrieval over the side of a bridge or edge of settling pond.

**3M™ POLE HOIST SYSTEM**
Use for vertical entry/retrieval or horizontal retrieval in areas of limited space.

**3M™ SELF-RETRACTING LANYARD AND WINCH ADAPTERS**
Provides connection to davit arm.

**3M™ RATCHET MANHOLE-COVER LIFTER**
Provides safe lifting in ergonomic position. Three hook sizes available.

**3M™ MATERIAL-HANDLING WINCH**
Material-handling winch for use in confined spaces.

**3M™ SELF-RETRACTING LANYARD**
Use for fall protection, retrieval and entry.

**3M™ FALL PROTECTION CATALOG**
3M.com/FallProtection

**CONFINED-SPACE SYSTEMS**
Fall Arrest and Confined-Space Systems distributed by 3M
For work areas that require regular setup and tear-down and where a base can be permanently affixed to an existing structure, adapter-base systems are an ideal solution. These systems consist of a davit arm, mast, retrieval device and adapter base. This lightweight, reliable and easy-to-install system facilitates access to vertical confined spaces. The universal mast and davit arm allow for fall protection and retrieval and can be used and installed in many different adapter bases. The davit arm is equipped with a 5,000 lbs. anchor point.

**Sample 24 Inch Adapter-Base System**

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

**MAST EXTENSIONS**

Provide additional mast height by inserting a mast extension into the adapter base, then place mast in top of extension.

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**DAVIT ARM**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2210</td>
<td>Xtripa™ Davit Arm</td>
<td>24 inches</td>
</tr>
</tbody>
</table>

**MAST AND EXTENSIONS**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2003</td>
<td>Xtripa™ Mast</td>
<td>55 inches</td>
</tr>
<tr>
<td>IN-2044</td>
<td>Xtripa™ Mast Extension, 15 inches</td>
<td>Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 22 lbs.</td>
</tr>
<tr>
<td>IN-2109</td>
<td>Xtripa™ Mast Extension, 18 inches</td>
<td>Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.</td>
</tr>
<tr>
<td>IN-2045</td>
<td>Xtripa™ Mast Extension, 24 inches</td>
<td>Mast extension is made of painted steel and provides an additional 24 in. davit-arm base. Unit weight: 29 lbs.</td>
</tr>
</tbody>
</table>

**FLOOR ADAPTER BASES**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2005</td>
<td>Xtripa™ Floor Adapter Base Stainless Steel</td>
<td>Floor adapter base attaches to concrete or steel. Use with 24 in. universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2106</td>
<td>Zinc Plated</td>
<td></td>
</tr>
<tr>
<td>IN-2311</td>
<td>316 Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

For self-retracting lanyards, winches and other accessories, see page 120. 
**Xtirpa™ 24 INCH ADAPTER-BASE SYSTEM**

**CONTINUED**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2006</td>
<td>Xtirpa Flush Adapter Base Stainless Steel</td>
<td>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2114</td>
<td>Zinc Plated</td>
<td>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2225</td>
<td>316 Stainless Steel</td>
<td>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2007</td>
<td>Xtirpa Cast-in-Place Concrete Floor Base Stainless Steel</td>
<td>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2326</td>
<td>316 Stainless Steel</td>
<td>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2013</td>
<td>Xtirpa Mural Wall Mount Adapter Base Stainless Steel</td>
<td>Adapter attaches flush to concrete or steel vertical structures for minimal intrusion. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2107</td>
<td>Zinc Plated</td>
<td>Adapter attaches flush to concrete or steel vertical structures for minimal intrusion. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2327</td>
<td>316 Stainless Steel</td>
<td>Adapter attaches flush to concrete or steel vertical structures for minimal intrusion. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2124</td>
<td>Xtirpa™ 8 inch Clean-In-Mural Wall Adapter Stainless Steel</td>
<td>Stainless steel adapter attaches to concrete or steel vertical structures, provides an 8 in. clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2067</td>
<td>Stainless Steel</td>
<td>Stainless steel adapter attaches to concrete or steel vertical structures and provides 14 in. clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2312</td>
<td>Stainless Steel</td>
<td>Stainless steel adapter attaches to concrete or steel vertical structures and provides 14 in. clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</td>
</tr>
<tr>
<td>IN-2009</td>
<td>Xtirpa™ Sleeve Adapter Stainless Steel</td>
<td>Stainless steel sleeve adapter provides flush mount with concrete floor. For use with universal mast IN-2003 and davit arm IN-2210. 4-1/2 in. diameter hole needed.</td>
</tr>
<tr>
<td>IN-2328</td>
<td>Stainless Steel</td>
<td>Stainless steel sleeve adapter provides flush mount with concrete floor. For use with universal mast IN-2003 and davit arm IN-2210. 4-1/2 in. diameter hole needed.</td>
</tr>
<tr>
<td>IN-2021</td>
<td>Stainless Steel</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2129</td>
<td>Zinc Plated</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2155</td>
<td>Stainless Steel</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2015</td>
<td>Stainless Steel</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2131</td>
<td>Stainless Steel</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2132</td>
<td>Zinc Plated</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2133</td>
<td>Stainless Steel</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2134</td>
<td>Zinc Plated</td>
<td>Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.</td>
</tr>
<tr>
<td>IN-2105</td>
<td>Xtirpa™ Central Floor Adapter Base Stainless Steel</td>
<td>Center-mounted floor adapter attaches to concrete or steel. Use with universal mast IN-2003 and davit arm IN-2210. Ideal when 360° movement required. Bolts not included.</td>
</tr>
<tr>
<td>IN-2137</td>
<td>Zinc Plated</td>
<td>Center-mounted floor adapter attaches to concrete or steel. Use with universal mast IN-2003 and davit arm IN-2210. Ideal when 360° movement required. Bolts not included.</td>
</tr>
<tr>
<td>IN-2229</td>
<td>316 Stainless Steel</td>
<td>Center-mounted floor adapter attaches to concrete or steel. Use with universal mast IN-2003 and davit arm IN-2210. Ideal when 360° movement required. Bolts not included.</td>
</tr>
<tr>
<td>IN-2087</td>
<td>Xtirpa™ Wall-Mounted Universal Ring Adapter Stainless Steel</td>
<td>Universal ring adapter anchor point, use on ceiling or wall with pole hoist system. Use horizontally or vertically. Bolts not included.</td>
</tr>
<tr>
<td>IN-2085</td>
<td>Xtirpa™ H-Beam Adapter Stainless Steel</td>
<td>Adapter base attaches to H-Beams to provide an anchorage point for davit arm IN-2003. Designed for H-Beam width 12 in. x 26 in. Used on suspended floors or sections of beams. Use with universal mast IN-2003 and davit arm IN-2210. Comes with bolts.</td>
</tr>
<tr>
<td>IN-2208</td>
<td>Xtirpa™ Sliding Beam Adapter Zinc Plated</td>
<td>Adapter base attaches to H-Beams to provide an anchorage point for davit arm IN-2003. Designed for H-Beam width 12 in. x 26 in. Used on suspended floors or sections of beams. Use with universal mast IN-2003 and davit arm IN-2210. Comes with bolts.</td>
</tr>
</tbody>
</table>

**ADAPTER ACCESSORIES**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2161</td>
<td>Xtirpa™ Warming Post Zinc Plated</td>
<td>Use with permanent adapter bases when installed in high-traffic locations to provide a visual warning of base. May help prevent objects from falling in base and reduce trip hazards. 45 in. height x 4 in. diameter. Fits 3 in. diameter hole for IN-2003 universal mast.</td>
</tr>
<tr>
<td>IN-2072</td>
<td>Xtirpa™ Adapter Cap Zinc Plated</td>
<td>Adapter cap for use with permanent adapter bases when mast not installed may help to prevent objects from falling in adapter base. Fits 3 in. diameter hole for IN-2003 universal mast.</td>
</tr>
<tr>
<td>IN-2073</td>
<td>Xtirpa™ Adapter Cap with Steel Wire Zinc Plated</td>
<td>Adapter cap with steel wire for use with permanent adapter bases when mast not installed may help to prevent objects from falling in base. Wire keeps cap attached to base. Fits 3 in. diameter hole for IN-2003 universal mast.</td>
</tr>
<tr>
<td>P2006-006</td>
<td>Xtirpa™ Adapter Reinforcement Plate Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2006, for use when concrete is less than 8 in. thick, see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>P2105-001</td>
<td>Xtirpa™ Adapter Reinforcement Plate Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2105, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>P2005-001</td>
<td>Xtirpa™ Adapter Reinforcement Plate Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2005, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>P2007-004</td>
<td>Xtirpa™ Adapter Reinforcement Plate Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2005, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>P2013-008</td>
<td>Xtirpa™ Adapter Reinforcement Plate Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2013, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>IN-2174</td>
<td>Xtirpa™ Plate 12 in. Red Kit Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2013, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
<tr>
<td>IN-2212</td>
<td>Xtirpa™ Plate 16 in. Red Kit Stainless Steel</td>
<td>Stainless steel reinforcement plate for adapter base IN-2013, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.</td>
</tr>
</tbody>
</table>

**Xtirpa™ LOW CLEARANCE MAST AND DAVIT**

**Xtirpa™ CONFINED-SPACE INTEGRATED MAST AND DAVIT ARM**

IN-2295, 36 inch height x 18 inch reach

Low-clearance integrated mast and davit arm for use in any of the 24 inch adapter bases when a shorter clearance is needed. Unit weight: 16 lbs.

WEIGHT CAPACITY: 360 LBS.

For self-extending lanyards, vehicles and other accessories, see page 120.
### ADAPTER BASES

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2238</td>
<td>Xtirpa™ Floor Adapter Base, Stainless Steel</td>
<td>Floor adapter base attaches to concrete or steel structure. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.</td>
</tr>
<tr>
<td>IN-2239</td>
<td>Xtirpa™ Floor Adapter Base, Black</td>
<td></td>
</tr>
<tr>
<td>IN-2253</td>
<td>Xtirpa™ Mural Wall Adapter Base, Stainless Steel</td>
<td>Wall adapter installed flush to concrete or steel structure. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.</td>
</tr>
<tr>
<td>IN-2254</td>
<td>Xtirpa™ Central Floor Adapter Base, Stainless Steel</td>
<td>Center-mounted floor adapter attaches to concrete or steel structure. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Ideal for 360° rotation. Bolts not included.</td>
</tr>
<tr>
<td>IN-2266</td>
<td>Xtirpa™ Floor Adapter Base, Stainless Steel</td>
<td>Stainless steel adapter attaches to concrete or steel. May help prevent objects from falling in base. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.</td>
</tr>
<tr>
<td>IN-2272</td>
<td>Xtirpa™ Adapter Cap, 4 in. diameter</td>
<td>Stainless steel adapter attaches to concrete or steel. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. 5-3/4 inch diameter hole needed.</td>
</tr>
<tr>
<td>IN-2273</td>
<td>Xtirpa™ Adapter Cap with Steel Wire, 4 in. diameter</td>
<td>Stainless steel adapter attaches to concrete or steel. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. 5-3/4 inch diameter hole needed.</td>
</tr>
<tr>
<td>A2238-03</td>
<td>Xtirpa™ Cylinder Reducer, 4 in.-3 in.</td>
<td>Stainless steel adapter attaches to concrete or steel. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. 5-3/4 inch diameter hole needed.</td>
</tr>
</tbody>
</table>

### MASTS

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2240</td>
<td>Xtirpa™ Mast for 30 in.-48 in. Davit Arm 42 in. height</td>
<td>Mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.-48 in. davit arm IN-2237. It fits 30 in.-48 in. Xtirpa™ adapter bases and counter-weight system. Height:42 in. Unit weight: 25 lbs.</td>
</tr>
<tr>
<td>IN-2253</td>
<td>Xtirpa™ Mast for 30 in.-48 in. Davit Arm 60 in. height</td>
<td>Mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.-48 in. davit arm IN-2237. It fits 30 in.-48 in. Xtirpa™ adapter bases. Unit weight: 34 lbs.</td>
</tr>
</tbody>
</table>

### DAIVT ARM

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2237</td>
<td>Xtirpa™ Davit Arm 30 in.-48 in.</td>
<td>30 in.-48 in. davit arm for fall protection and retrieval facilitates access to confined space. Use with mast IN-2240 or IN-2313. Pinholes located at 30 in., 36 in. and 48 in. Equipped with 5,000 lbs. anchor point. For winch handling support, order A2237-06 separately. Unit weight: 35 lbs.</td>
</tr>
<tr>
<td>A2237-06</td>
<td>Xtirpa™ Removable Winch Adapter</td>
<td>Removable winch adapter for the 30 in.-48 in. davit arm (IN-2237).</td>
</tr>
</tbody>
</table>

**Sample 30 Inch–48 Inch Adapter-Base System**

**Xtirpa™ 30 INCH–48 INCH ADAPTER-BASE SYSTEM**

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

### WEIGHT CAPACITY: 360 lbs.

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50, 50 feet**

50 foot three-way self-retracting lanyard.

**3M™ Fall Protection Catalog**

For self-retracting lanyards, winches and other accessories, see page 120.
VERTICAL-ENTRY SOLUTIONS

Xtirpa™ 60 INCH–96 INCH ADAPTER-BASE SYSTEM

The 60 inch–96 inch is ideal for work areas that require regular setup and tear-down and where a base can be permanently affixed to an existing structure. This system consists of a davit arm, mast retrieval device and adapter base. Including all the benefits of the adapter-base systems, this system provides extended reach and is easily positioned from 5 feet to 8 feet. The davit arm is equipped with a 5,000 lbs. anchor point. Typical applications include shipyards and dry docks.

WEIGHT CAPACITY: 360 lbs.

Sample 60 Inch–96 Inch Adapter-Base System

Xtirpa™ DAVIT ARM
IN-2197, 60 in.–96 in. reach

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD
205G-50, 50 feet

Equipped with 5,000 lbs. rated anchor point.

50 foot three-way self-retracting lanyard

Xtirpa™ SRL ADAPTER
IN-2356*

Use to attach 205G-50 to davit-arm mounting bracket

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

Xtirpa™ DAVIT MAST
IN-2199, 55 inches

Use a cylinder reducer in adapter base to allow for use with 24 inch (P2201-004) or 30 inch–48 inch (A2201-04) inch davit-arms systems
Xtirpa™ MANHOLE GUARD SYSTEM

**MANHOLE GUARD SYSTEMS**

- **Manhole guard systems** are used when an exposed entry point needs to be guarded. This portable system has an integrated mast that is used in conjunction with a davit arm to provide fall protection and entry and retrieval capabilities. The manhole guard system facilitates access to underground chambers or any other type of confined space where an entry point should be protected. Davit arm is equipped with a 5,000 lb. anchor point.

**WEIGHT CAPACITY:** 420 lbs. with manhole guard system

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**Xtirpa™ MANHOLE GUARD SYSTEM**

**DAVIT ARM**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2210</td>
<td>Xtirpa™ Davit Arm</td>
<td>24 in. davit arm with secondary block adapter for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guard IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.</td>
</tr>
</tbody>
</table>

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**MANHOLE GUARDS AND BARRICADES**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2108</td>
<td>Xtirpa™ Manhole Guard</td>
<td>42 in. H x 38 in. W x 38 in. D. Portable manhole guard with integrated mast that is used in conjunction with a 24 in. davit arm for confined-space fall protection and retrieval. It is 42 in. height x 38 in. width x 38 in. depth. Comes with adjustable feet for simple leveling of system. Unit weight: 29 lbs.</td>
</tr>
<tr>
<td>IN-2324</td>
<td>Xtirpa™ Manhole Guard</td>
<td>42 in. H x 52 in. W x 52 in. D. Large portable manhole guard with integrated mast that is used in conjunction with the 24 in. davit arm for confined space fall protection and retrieval. It is 42 in. height x 52 in. width x 52 in. depth. Comes with adjustable feet for simple leveling of system. Unit weight: 44 lbs.</td>
</tr>
</tbody>
</table>

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**MULTIFUNCTIONAL BARRICADE**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2108-07</td>
<td>Xtirpa™ Multi-functional Barricade</td>
<td>1-side. Single section multi-functional portable manhole guard allows worker to assemble additional sections to create a safe working area. It is 42 in. height x 38 in. width x 38 in. depth. For use with portable manhole guard IN-2108 or IN-2324. Unit weight: 7 lbs.</td>
</tr>
<tr>
<td>A2101</td>
<td>Xtirpa™ Multi-functional Barricade</td>
<td>4-sides. Four-sided multi-functional portable manhole guard allows worker to assemble additional sections to create a safe working area. Each removable section is 42 in. height x 38 in. width x 38 in. depth. For use with portable manhole guard IN-2108 or IN-2324. Unit weight: 28 lbs.</td>
</tr>
</tbody>
</table>

---

**PLATE PROTECTOR**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2176</td>
<td>Xtirpa™ Barricade Plate Protector</td>
<td>Kick-plate protector for portable manhole guard to help prevent objects at foot level from entering confined space. 6 in. height x 37-1/2 in. length x 1/16 in. thickness.</td>
</tr>
</tbody>
</table>

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**ACCESSORIES**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2296</td>
<td>Xtirpa™ Manhole Guard Cable-Feed Support</td>
<td>Manhole-guard cable-feed support used by cable companies (telephone, electric) to pull conduit cable. It is fixed on manhole guards IN-2108 or IN-2324 and wire placed on reel. For self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
</tbody>
</table>

---

**VERTICAL-ENTRY SOLUTIONS**

**Xtirpa™ MANHOLE GUARD SYSTEM**

Sample Manhole Guard System

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50, 50 feet

50 foot three-way self-retracting lanyard.

Xtirpa™ SRL ADAPTER

IN-2356*

Use to attach 205G-50 to davit-arm mounting bracket.

---

**Xtirpa™ STABILIZER**

A2108-18

For increased stability of system. Designed to be used with 24 inch davit arm IN-2210 and mast manhole guard.

---

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

---

**RINGS**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2010</td>
<td>Xtirpa™ Manhole Retaining Ring</td>
<td>Retaining ring that must be used in conjunction with cone-shaped safety ring IN-2009 to secure to manhole. Expands 28 in.-30 in.</td>
</tr>
<tr>
<td>IN-2009</td>
<td>Xtirpa™ Cone Shaped Safety Ring</td>
<td>30 in. cone-shaped sealing safety ring must be used in conjunction with retaining ring IN-2010. Connects to manhole-guard IN-2108 or IN-2324 to help prevent liquids from entering the confined space.</td>
</tr>
</tbody>
</table>

---

**STABILIZER**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2108-18</td>
<td>Xtirpa™ Stabilizer</td>
<td>Stabilizer for IN-2108 or IN-2324 portable manhole guards. For use with self-retracting lanyards over 50 ft. for increased stability of system. May be used with either winching mechanisms: either material-handling winch or man-handling winch.</td>
</tr>
<tr>
<td>A2108-20</td>
<td>Xtirpa™ Stabilizer</td>
<td>Stabilizer for IN-2108 or IN-2324 portable manhole guard with wheels. For use with self-retracting lanyards over 50 ft. for increased stability of system. Wheels allow for ease of movement without dismantling system.</td>
</tr>
</tbody>
</table>

---

**PLATE PROTECTOR**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2176</td>
<td>Xtirpa™ Barricade Plate Protector</td>
<td>Kick-plate protector for portable manhole guard to help prevent objects at foot level from entering confined space. 6 in. height x 37-1/2 in. length x 1/16 in. thickness.</td>
</tr>
</tbody>
</table>
### Xtirpa™ MANHOLE-COLLAR SYSTEM

Manhole collar systems are designed for applications involving frequent setups over similarly-sized access openings. This lightweight and easy-to-assemble/disassemble system provides a portable adapter base and anchor point making it an ideal option for areas where a permanent anchor is not viable.

**WEIGHT CAPACITY:** 360 lbs.

### VERTICAL-ENTRY SOLUTIONS

**Xtirpa™ MANHOLE COLLAR SYSTEM**

![Sample Manhole Collar System](image)

Manhole collar systems are designed for applications involving frequent setups over similarly-sized access openings. This lightweight and easy-to-assemble/disassemble system provides a portable adapter base and anchor point making it an ideal option for areas where a permanent anchor is not viable.

**WEIGHT CAPACITY:** 360 lbs.

### MANHOLE COLLAR SYSTEM

<table>
<thead>
<tr>
<th>Description</th>
<th>Product #</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A variety of sizes are available.</td>
<td>IN-2221</td>
<td>22 inch–24 inch diameter</td>
</tr>
<tr>
<td>A variety of sizes are available.</td>
<td>A2217-05</td>
<td>MANHOLE COLLAR LADDER ADAPTER</td>
</tr>
<tr>
<td>Equipped with 5,000 lbs. rated anchor point.</td>
<td>IN-2356*</td>
<td>SRL ADAPTER</td>
</tr>
<tr>
<td>3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD</td>
<td>205G-50</td>
<td>50 feet three-way self-retracting lanyard.</td>
</tr>
<tr>
<td>Equipped with 5,000 lbs. rated anchor point.</td>
<td>IN-2324</td>
<td>MANHOLE COLLAR LADDER ADAPTER</td>
</tr>
</tbody>
</table>

### XTIRPA™ MANHOLE-COLLAR SYSTEM

<table>
<thead>
<tr>
<th>Description</th>
<th>Product #</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 in. davit arm with secondary lock adapter for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guards IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.</td>
<td>IN-2210</td>
<td>Davit Arm</td>
</tr>
<tr>
<td>55 in. height available in a variety of sizes based on length of davit arm.</td>
<td>IN-2003</td>
<td>Davit Arm</td>
</tr>
<tr>
<td>Low clearance integrated mast and davit arm for use with manhole collar system or any 24 inch adapter-base when a shorter clearance is needed. Unit weight: 16 lbs.</td>
<td>IN-2295</td>
<td>MANHOLE COLLAR LADDER ADAPTER</td>
</tr>
<tr>
<td>24 in. davit arm with secondary lock adapter for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guards IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.</td>
<td>IN-2044</td>
<td>Mast Extension, 15 in.</td>
</tr>
<tr>
<td>Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 20 lbs.</td>
<td>IN-2109*</td>
<td>Mast Extension, 18 in.</td>
</tr>
<tr>
<td>Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.</td>
<td>IN-2045</td>
<td>Mast Extension, 24 in.</td>
</tr>
<tr>
<td>Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.</td>
<td>IN-2046</td>
<td>Mast Extension, 24 in.</td>
</tr>
</tbody>
</table>

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

*Note: For self-retracting lanyards, winches and other accessories, see page 120.***
Xtirpa™ MANHOLE COLLAR SYSTEM  |  CONTINUED

**COLLARS**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2287</td>
<td>Xtirpa™ Fall/Retrieval Manhole Collar</td>
<td>Fits 16 in.–18 in. diameter. Fall arrest/retrieval manhole collars fit 16 in.–44 in. diameter. Provides portable adapter base for a confined-space system by fitting within a manhole opening. Use with 24 in. mast IN-2003 and davit arm IN-2210.</td>
</tr>
<tr>
<td>IN-2219</td>
<td>Fits 18 in.–20 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2220</td>
<td>Fits 20 in.–22 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2221</td>
<td>Fits 22 in.–24 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2217</td>
<td>Fits 24 in.–26 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2222</td>
<td>Fits 26 in.–30 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2181</td>
<td>Fits 30 in.–32 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2223</td>
<td>Fits 32 in.–34 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2224</td>
<td>Fits 34 in.–36 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2180</td>
<td>Fits 42 in.–44 in. diameter</td>
<td></td>
</tr>
<tr>
<td>IN-2289</td>
<td>Xtirpa™ Adjustable Manhole Collar</td>
<td>Fits 32 in.–42 in. diameter. Adjustable fall arrest/retrieval manhole collar adjusts from 32 in.–42 in. diameter. Provides a portable base for a confined-space system by fitting within a manhole opening. Use with 24 in. mast IN-2003 and davit arm IN-2210.</td>
</tr>
</tbody>
</table>

**COMFORT SEAT**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2217-10</td>
<td>Xtirpa™ Manhole Collar Comfort Seat</td>
<td>This seat can be attached to any manhole collar for added comfort when entering or working on a confined space entry point. Cannot be used with IN-2009 due to tilted edges. Seat dimensions: 10 in. length x 12 in. height.</td>
</tr>
</tbody>
</table>

**HAND RAIL**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2282</td>
<td>Xtirpa™ Manhole Adaptable Handrail</td>
<td>This adaptable handrail is for use with mast IN-2003 and provides easier entrance/exit from confined space. Unit weight 5-1/2 lbs.</td>
</tr>
</tbody>
</table>

**LADDER ADAPTER**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2217-05</td>
<td>Xtirpa™ Manhole Collar Ladder Adapter</td>
<td>Ladder adapter attaches to any Xtirpa™ manhole collar and provides a mechanism to secure ladder to manhole collar for added stability when a ladder is needed but not built into structure. Cannot be used with IN-2009. Comes with necessary hardware.</td>
</tr>
</tbody>
</table>

**SPECIALIZED**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2244</td>
<td>Xtirpa™ Positioning Seat</td>
<td>Positioning seat allows for comfortable entrance/exit of confined space by providing worker a padded seat to sit on while ascending/descending. Seat attaches to man-rated winch. Commonly used in grain elevators.</td>
</tr>
</tbody>
</table>

For self-retracting tugs, winches and other accessories, see page 130.
VERTICAL-ENTRY SOLUTIONS

Xtirpa™ FREESTANDING H-BASE SYSTEM

A free-standing system is ideal when you need to move and access various confined-space entry points. The portable lower base allows for adjustment to accommodate width and length of most standard confined spaces, offering a solution for the entry, rescue and positioning of personnel. The system pivots for an easier and safer rescue. The davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD
205G-50, 50 feet
50 foot three-way self-retracting lanyard.

Also available in 18 inches and 24 inches.

For self-retracting lanyards, winches and other accessories, see page 120.

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

Sample Freestanding H-Base System

3M™ DAVIT ARM
IN-2210, 24 inch reach

Equipped with 5,000 lbs. rated anchor point.

Xtirpa™ DAVIT MAST
IN-2003, 55 inch height
Available in a variety of sizes based on length of davit arm.

Xtirpa™ SRL ADAPTER
IN-2356*
Use to attach 205G-50 to davit-arm mounting bracket.

Xtirpa™ H-BASE
IN-2118, 50 inches
Three-piece system.

Xtirpa™ DAVIT MAST EXTENSION
IN-2044, 15 inch height

Also available in 18 inches and 24 inches.

CONFINED-SPACE SYSTEMS

Fall Arrest and Confined-Space Systems distributed by 3M
# Vertical-Entry Solutions

**Xtirpa™ Trailer Hitch Mount System**

The trailer hitch mount system is commonly used with rescue vehicles for confined-space rescue. This section will help you build a portable confined-space system with a trailer hitch mount system that connects to 2 inch square vehicle receiver hitches. This popular system offers you adjustable screw pads for simple leveling of the system. The davit arm is equipped with a 5,000 lbs. anchor point. Numerous options are available for you to customize your confined-space system with a trailer hitch mount.

**Weight Capacity:** 360 lbs.

---

### Sample Trailer Hitch Mount System

![](image)

**Xtirpa™ Davit Arm**

IN-2210, 24 inch reach

**3M™ Stainless Steel Three-Way Self-Retracting Lanyard**

205G-50, 50 feet

### Confined-Space Systems

- **Self-Retracting Lanyard**
  - 205G-50, 50 feet

### Xtirpa™ Trailer Hitch Mount System

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2210</td>
<td>Xtirpa™ Davit Arm, 24 in.</td>
</tr>
<tr>
<td>TR-2210</td>
<td>Trailer hitch mount with 24 in. davit arm.</td>
</tr>
<tr>
<td>IN-2204</td>
<td>Trailer hitch mount with 60 in. davit arm.</td>
</tr>
<tr>
<td>IN-2003</td>
<td>24 in. davit arm with secondary block for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with mast IN-2003 and appropriate Xtirpa™ base/surface.</td>
</tr>
<tr>
<td>IN-2044</td>
<td>Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit arm.</td>
</tr>
<tr>
<td>IN-2045</td>
<td>Mast extension is made of painted steel and provides an additional 24 in. of height when used with any 24 in. davit arm.</td>
</tr>
<tr>
<td>IN-2046</td>
<td>Mast extension is made of painted steel and provides an additional 30 in. of height when used with any 24 in. davit arm.</td>
</tr>
<tr>
<td>IN-2047</td>
<td>Mast extension is made of painted steel and provides an additional 45 in. of height when used with any 24 in. davit arm.</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2126-07</td>
<td>Universal Joint Assembly for Trailer Hitch Mount</td>
</tr>
<tr>
<td>A2126-09</td>
<td>90° Extension Mount Extension, 6 ft.</td>
</tr>
<tr>
<td>A2126-14</td>
<td>16 in. C-clamp adapter for trailer hitch mount. Used on I-Beam and cement slabs that can withstand 5,000 lbs. as an anchor point.</td>
</tr>
<tr>
<td>A2126-21</td>
<td>The universal joint assembly attaches to trailer hitch mount IN-2126 or IN-2204 allowing for a 22-1/2° lateral movement when attached to hitch of vehicle. Usually used in conjunction with 6 ft. trailer hitch mount extension A2126-09.</td>
</tr>
</tbody>
</table>

---

### For Self-Retracting Lanyards, Winches and Other Accessories

See page 120.
Xtirpa™ COUNTERWEIGHT SYSTEM

A counterweight system is ideal when you need to move and access various confined space entry points in the same area and want to use the 30 inch–48 inch davit arm for increased reach. Consisting of a central base unit with a number of options for anchoring, positioning, leg adjustment and extension assemblies, this is a system designed for accessibility. The system can be used with a weight rack for counterbalance or a wheel pad assembly with an attendant vehicle. The davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.

Sample Counterweight System

Xtirpa™ DAVIT ARM
IN-2237, 30 in.–48 in. reach

Equipped with 5,000 lbs. rated anchor point.

Removable winch adapter A2237-06 available, order separately.

Xtirpa™ T-BASE MOUNT
IN-2305

WEIGHT CAPACITY: 360 lbs.

Xtirpa™ WEIGHT PLATES
P2305-016n

Xtirpa™ COUNTERWEIGHT BASE
A2305-27

For self-retracting lanyards, winches and other accessories, see page 120.

VERTICAL-ENTRY SOLUTIONS

Xtirpa™ COUNTERWEIGHT SYSTEM

DAVIT ARM

Product # Name Description

IN-2237
Xtirpa™ Davit Arm 30 in.–48 in. 30 in.–48 in. davit arm for fall protection and retrieval facilitates access to confined space. Use with masts IN-2240 or IN-2313. Pinholes located at 30 in., 36 in. and 48 in. Equipped with 5,000 lbs. anchor point. For winch handling support, order A2237-06 separately. Unit weight: 35 lbs.

IN-2237-06
Xtirpa™ Removable Winch Adapter Removable winch adapter for the 30 in.–48 in. davit arm (IN-2237).

MASTS

Product # Name Description

IN-2240
Xtirpa™ Mast for 30 in.–48 in. Davit Arm 42 in. height Mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases and counter-weight system. Height: 42 in. Unit weight: 25 lbs.

IN-2313
Xtirpa™ Mast for 30 in.–48 in. Davit Arm 60 in. height 60 in. mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases. Unit weight: 34 lbs.

COMPONENTS — REQUIRED

Product # Name Description

IN-2305

P2305-016
Xtirpa™ Counterweight System Weight Plates, 50 lbs. 50 lbs. weight plate for use on counterweight confined-space system. Attach to counterweight base A2305-27. Forty plates required.

A2305-40
Xtirpa™ Counterweight Base Extension Tube 8 ft. extension tube for counterweight base. Comes in two sections and with handles for ease in transporting.

ACCESSORIES — OPTIONAL

Product # Name Description

A2305-20
Xtirpa™ T-Base Mount Reducer, 2-1/2 in.–2 in. This T-base reducer is used with 6 ft. extension A2305-16. Allows extension to fit into 2 in. vehicle hitch mount.

A2305-16
Xtirpa™ T-Base Mount Extension, 6 ft. This 6 ft. extension connects to T-base IN-2305 using adapter A2305-25. Permits T-base to connect to vehicle hitch. Measures 2-1/2 in. in diameter. Use reducer A2305-20 to fit 2 in. vehicle hitch mount.

A2305-25
Xtirpa™ Counterweight System Adapter for 6 ft. Extension Adapter for 6 ft. extension A2305-16.

For self-retracting lanyards, winches and other accessories, see page 120.
3M™ TRIPOD SYSTEM

Simple setup procedure makes the process quick and promotes correct use. Legs automatically lock in the open position for added safety. Aluminum leg and head design reduces weight and improves portability. Designed for lifting, lowering and positioning personnel. Carrying bags allow for great portability. Provides a 5,000 lbs. anchor point. WEIGHT CAPACITY: 360 lbs.

TRIPOD

Product # Name Description
99-M10 3M™ Tripod This 7 ft. adjustable aluminum tripod with pulley carabiner and chain for the legs is one of three components of the 3M™ Tripod system used for confined-space rescue. Must order with 205G-50 and M10B-1 for a complete system.

RETRIEVAL DEVICES

Product # Name Description
205G-50 50 ft. three-way Device This 50 ft. three-way self-retracting lanyard is one of three components of the 3M™ Tripod system used for confined-space rescue. Lifeline is stainless steel cable.

142G Material Handling Winch The 142G material winch is capable of raising and lowering loads of 550 lbs. and has 65 feet of galvanized steel cable. The 142G material handling winch comes complete with hardware pre-attached for mounting onto the 99-M10 tripod.

TRIPOD ACCESSORIES

Product # Name Description
M10B-1 Tripod bracket Tripod mounting bracket for 205G-50 Series three-way self-retracting lanyard. Must order M10B-1 with 99-M10 tripod and 205G-50 Series three-way self-retracting lanyard for a complete system.
1000210-07 Carabiner Required for connecting additional device.
4500-TripodA Storage Bag Carrying and storage bag for tripod.

For other accessories, see page 120.
HORIZONTAL- AND VERTICAL-ENTRY SOLUTIONS

Xtirpa™ POLE HOIST SYSTEM

This two-piece portable system is one of the most versatile systems on the market for confined space, entry/retrieval and rescue. When attached to an anchor point, it provides retrieval and fall protection when limited overhead clearance is available. It can also be configured to provide retrieval from horizontal entries. Designed for lifting, lowering and positioning of personnel. Load rating is based on the anchor point.

WEIGHT CAPACITY: 360 lbs.

Sample Pole Hoist System

Xtirpa™ POLE HOIST
IN-2337, 48 inches–72 inches
Also available in 57 inches–102 inches.

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD
205G-50, 50 feet
50 foot three-way self-retracting lanyard.

POLE HOIST SYSTEM

<table>
<thead>
<tr>
<th>LIFTING POLES</th>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2337</td>
<td>Xtirpa™ Pole Hoist, 48 in.–72 in.</td>
<td>Pole hoist system with swivel-head for vertical and horizontal retrieval and fall arrest. Extends with two fixed angles. Use with certified anchor point. Purchase T-Bar separately.</td>
<td></td>
</tr>
<tr>
<td>IN-2338</td>
<td>Xtirpa™ Pole Hoist, 57 in.–102 in.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADJUSTABLE T-BAR</th>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2127</td>
<td>Xtirpa™ Adjustable T-Bar for Pole Hoist, Short, Up to 48 in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IN-2274</td>
<td>Xtirpa™ Adjustable T-Bar for Pole Hoist, 12 in.–14 in.</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>ADAPTERS</th>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2242</td>
<td>Xtirpa™ Lateral Entry Angle Adapter</td>
<td>Anchor point for vertical and horizontal entry with pole hoist system. Can be used on round or square flange that can withstand 5,000 lbs as an anchor point. Comes with snap hook. Use existing studs to attach.</td>
<td></td>
</tr>
<tr>
<td>IN-2087</td>
<td>Xtirpa™ Wall Mounted Universal Ring Adapter</td>
<td>Universal ring adapter anchor point, use on ceiling or wall with pole hoist system. Use horizontally or vertically. Bolts not included.</td>
<td></td>
</tr>
<tr>
<td>IN-2241</td>
<td>Xtirpa™ Lateral Entry Jib Adapter</td>
<td>This jib adapter is positioned outside of confined-space entry point allowing for lateral entry. Typically used with tanks when walls are too thin for anchoring. Can be certified anchor point when anchored at base. Height adjusts from 88–9/10 in.–109–1/5 in.</td>
<td></td>
</tr>
</tbody>
</table>

For self-retracting lanyards, winches and other accessories, see page 120.

IN-2242
This certified anchor point for the pole hoist system can be used on round or square flange.
3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50, 50 feet. Use with IN-2356*.

Xtirpa™, 3M™ or IKAR™ ADAPTER PLATE IN-2356* Use to attach 205G-50 to davit-arm mounting bracket.

Xtirpa™, 3M™ or ALKO™ WINCH ADAPTER IN-2157 Use to attach 142G to davit-arm mounting bracket.

3M™ MATERIAL HANDLING WINCH 142G, 65 foot

BRACKETS AND ADAPTERS FOR SELF-RETRACTING LANYARDS AND WINCHES

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-2271</td>
<td>Xtirpa™ Fall Arrest and Rescue Link Adapter</td>
<td>This adapter for fall arrest and rescue fits onto davit arm and is used with mechanical rope system instead of a self-retracting lanyard to form a mechanical advantage rope system. Use with certified wire rope link (SBGA16G165-16).</td>
</tr>
<tr>
<td>SBGA16G165-16</td>
<td>Xtirpa™ Certified Wire Rope Link</td>
<td>This wire rope is used with IN-2271 fall arrest and rescue link adapter.</td>
</tr>
<tr>
<td>IN-2290</td>
<td>Xtirpa™ Horizontal Rescue System</td>
<td>Confined-space horizontal rescue system. Hinge mount, used with walker-type tank doors. Not to be used for fall arrest.</td>
</tr>
<tr>
<td>IN-2314</td>
<td>Xtirpa™ Mural Wall Angular Adapter for Fall Arrest System</td>
<td>Wall mounted winch adapter plate for use with IN-2087 anchor and confined-space pulley and carabiner.</td>
</tr>
</tbody>
</table>

*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.
CARRYING BAGS
All Carrying Bags provide storage and easy transport from work site to work site. Each bag is tear-resistant and waterproof.

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2108-025</td>
<td>Xtripa™ Confined-Space Manhole Guard Carrying Bag, 42 in.</td>
<td>Carrying bag for 42 in. manhole guard IN-2108.</td>
</tr>
<tr>
<td>P2002-046</td>
<td>Xtripa™ Davit-Arm Carrying Bag</td>
<td>Carrying bag for davit arm IN-2210.</td>
</tr>
<tr>
<td>P2118-017</td>
<td>Xtripa™ H-Base Body Section Carrying Bag</td>
<td>Carrying bag for body section of H-base system.</td>
</tr>
<tr>
<td>P2118-018</td>
<td>Xtripa™ H-Base Foot-Base Section Carrying Bag</td>
<td>Carrying bag for one of the two foot-base sections of H-base system.</td>
</tr>
<tr>
<td>P2120-014</td>
<td>Xtripa™ 48 in.–72 in., Pole-Hold Carrying Bag</td>
<td>Carrying bag for pole height IN-2337.</td>
</tr>
<tr>
<td>P2121-003</td>
<td>Xtripa™ 57 in.–102 in., Pole-Hold Carrying Bag</td>
<td>Carrying bag for pole height IN-2338.</td>
</tr>
</tbody>
</table>

FEET FOR BARRICADE AND MANHOLE GUARDS

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2001-09</td>
<td>Xtripa™ Barricade Feet, Adjustable</td>
<td>These adjustable feet come standard with Xtripa™ portable manhole guards, but can be purchased separately if replacement feet are needed due to wear. Adjustable feet are ideal for uneven terrain.</td>
</tr>
<tr>
<td>A2001-36</td>
<td>Xtripa™ Barricade Main Post Rubber Feet, Fixed</td>
<td>These fixed feet come standard on the Xtripa™ portable manhole guard’s most feet, but can also be purchased separately if replacement feet are needed due to wear.</td>
</tr>
<tr>
<td>A2001-18</td>
<td>Xtripa™ Manhole Guard Spiked Feet</td>
<td>These spiked manhole guard feet do not come standard with Xtripa™ portable manhole guards, but can be ordered separately. For use on slippery surfaces.</td>
</tr>
<tr>
<td>A2001-28</td>
<td>Xtripa™ Manhole Guard Rubber Feet, Large</td>
<td>Kit of three large rubber feet for IN-2108 or IN-2334, does not come standard with Xtripa™ portable manhole guard, but can be ordered separately. Use on metal grids, gravel or soft ground conditions. For load-bearing legs.</td>
</tr>
</tbody>
</table>

GENERAL ACCESSORIES

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4670</td>
<td>Bosun chair</td>
<td>Designed for users required to be suspended while working. To use, attach D-ring on chair to snap hook of 205G-50.</td>
</tr>
<tr>
<td>M30-SBA</td>
<td>Spreader Bar Assembly</td>
<td>For self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
</tbody>
</table>

DAVIT SYSTEM REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Product #</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2110-03</td>
<td>Xtripa™ Replacement 2 in. Pulley for Davit Arm</td>
<td>2 in. pulley comes standard with all Xtripa™ davit arms, but can also be purchased separately if a replacement part is needed.</td>
</tr>
<tr>
<td>A2110-12</td>
<td>Xtripa™ Replacement 4 in. Pulley for Davit Arms</td>
<td>4 in. pulley comes standard with all Xtripa™ davit arms, but can also be purchased separately if a replacement part is needed.</td>
</tr>
<tr>
<td>A2110-13</td>
<td>Xtripa™ Cable Restraint Pin for Davit Arms</td>
<td>Replacement restraint pin for use on Xtripa™ davit arms (next to pulley).</td>
</tr>
<tr>
<td>P2006-004</td>
<td>Xtripa™ PVC Sleeve Adapter</td>
<td>This part comes standard with all 24 in. adapter bases. Intended as a replacement part if the existing PVC sleeve is removed. Fits all 24 in. adapter bases.</td>
</tr>
<tr>
<td>A2001-32</td>
<td>Xtripa™ Rubber Latch Assembly</td>
<td>Replacement rubber latch assembly for 42 in. Xtripa™ barricades IN-2108 and IN-2324. Hardware included.</td>
</tr>
<tr>
<td>A2001-10</td>
<td>Xtripa™ Confi ned-Space Pull Locking Pin, 4 in.</td>
<td>Cylinder kit for adjustable leg for 42 in. Xtripa™ barricades IN-2108 and IN-2324, receptacle that A2001-09 fits into. Includes all necessary hardware.</td>
</tr>
</tbody>
</table>

DAVIT SYSTEM REPLACEMENT PINS

<table>
<thead>
<tr>
<th>Product #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A2002-06</td>
<td>Xtripa™ T-Handle Replacement Pin for Davit Arm, 3 in.</td>
<td>3 in. replacement T-handle for Xtripa™ davit arm. To be used at base of davit arm to lock davit arm into mast and manhole guard. Dimensions: 1/2 in. diameter x 3 in. grip range/working length.</td>
</tr>
<tr>
<td>A2002-09</td>
<td>Xtripa™ T-Handle Replacement Pin for Davit Arm, 4-1/2 in.</td>
<td>4-1/2 in. replacement T-handle for Xtripa™ davit arm. To be used in middle of davit arm to connect to manhole guard or mast. Dimensions: 1/2 in. diameter x 4-1/2 in. grip range/working length.</td>
</tr>
<tr>
<td>A2002-10</td>
<td>Xtripa™ Confined-Space Pull Locking Pin, 4 in.</td>
<td>4 in. replacement pull-ring lock for Xtripa™ davit-arm extension. Dimensions: 1/4 in. diameter x 4 in. grip range/working length.</td>
</tr>
</tbody>
</table>

POLE HOIST REPLACEMENT PARTS — INCLUDES ALL NECESSARY HARDWARE

<table>
<thead>
<tr>
<th>Product #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A2337-05</td>
<td>Xtripa™ Replacement Adapter-Plate Assembly</td>
<td>Xtripa™ replacement stickers available on request. Contact your 3M Representative directly.</td>
</tr>
<tr>
<td>A2337-06</td>
<td>Xtripa™ Cable-Tensioning Mechanism</td>
<td>Includes all necessary hardware for self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
<tr>
<td>A2337-07</td>
<td>Xtripa™ Rubber Replacement Pads for Pole Hoist System T-Bar</td>
<td>For self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
<tr>
<td>A2337-08</td>
<td>Xtripa™ Steel-Head Replacement Pulley</td>
<td>For self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
<tr>
<td>P2337-005</td>
<td>Xtripa™ Cable Retention Pulley</td>
<td>For self-retracting lanyards, winches and other accessories, see page 120.</td>
</tr>
</tbody>
</table>

ADAPTER PINS

<table>
<thead>
<tr>
<th>Product #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A2005-07</td>
<td>Xtripa™ Confined-Space Assembly Kit with Pull Ring</td>
<td>Fits all inch bases or 24 in. adapter bases.</td>
</tr>
<tr>
<td>A2079-03</td>
<td>Xtripa™ Winch Adapter Replacement Pin with Steel Wire</td>
<td>Any Xtripa™ SRL or winch adapter to secure winch or SRL to adapter. Comes with steel wire to attach locking pin to adapter. Dimensions: 5/16 in. diameter x 4-1/8 in. grip range/working length.</td>
</tr>
</tbody>
</table>

M30-SBA | Spreader Bar Assembly | For self-retracting lanyards, winches and other accessories, see page 120. |
Escape and rescue made quick and simple.

When things go wrong 500 feet in the air, you want a quick, simple way to get yourself or another person down safely. 3M offers real solutions for escape and rescue, built around descent technology that is innovative and designed for ease of use. This can assist with escape and rescue for workers on towers, cranes, platforms, scaffolding, aerial lifts, rigs and in other at-height environments.

CONSIDERATIONS WHEN CHOOSING AN ESCAPE AND RESCUE DEVICE

1. What specific capabilities do you need?
   - ESCAPE — individual and/or multi-person
   - ASSISTED RESCUE — including two-person
   - SELF-RESCUE after a fall
   - RESCUE TRAINING

2. What is your environment?
   - General Industrial/Manufacturing
   - Tower Climbing
   - Oil & Gas
   - Mining
   - Construction
   - Utilities/Bucket Trucks

3. Are there hazards that could jeopardize the safety of the worker during an escape or rescue descent?
   - Consider a device that allows the user to stop and go and change speed at any time during the descent to help avoid hazards.

4. Descent speed/standards
   - Up to 2 m/sec. (6-3/5 ft./sec.) (ANSI, CSA and EN certified)
   - Up to 3 m/sec. (9-4/5 ft./sec.)

5. What height are you working at?
   - This determines rope length requirements.

6. Portability
   - Consider equipment that allows for the option to carry device with worker or to anchor device to anchorage connector.

THE NEED FOR RESCUE PLANS

Descent and rescue devices are used to retrieve an injured worker and lower him to the ground. Employers must have a rescue plan that provides the prompt rescue of employees in the event of a fall or ensures that employees are able to rescue themselves.

Rescue Plan Required by OSHA in the U.S.

OSHA 1926.502 (d)(20): The employer shall provide for prompt rescue of employees in the event of a fall or shall assure that employees are able to rescue themselves.

OSHA 1910.66 Appendix C Section III(g): “Rescue considerations.” As required by the standard Section I Paragraph (d)(5), when personal fall arrest systems are used, the employer must assure that employees can be promptly rescued or can rescue themselves should a fall occur. The availability of rescue personnel, ladders or other rescue equipment should be evaluated. In some situations, equipment which allows employees to rescue themselves after the fall has been arrested may be desirable, such as devices which have descent capability.

Rescue Plan Required by OHS (Occupational Health and Safety)

Rescue plan regulations — written rescue procedures must be in place and executed before any use of a fall arrest system. A rescue plan is required for any person at height.*

Legislation standards require that where a worker is exposed to the hazard of falling more than 3 meters, the worker will wear a serviceable safety belt or harness and lifeline so that the worker cannot fall freely for a vertical distance of more than 1.5 meters; and before any use of a fall arrest system, the worker’s employer shall develop written procedures for rescuing the worker after his or her fall has been arrested.**

* Statement above relates to Ministry of Labour, Province of Ontario.

** Statement will vary by Provincial Legislation. Please contact your local governing body for exact wording on rescue plan definition in your own jurisdiction.
In a world of complex rescue solutions, simplified rescue is essential.

**PERSONAL RESCUE DEVICE**

The Latchways Personal Rescue Device™ (PRD™) is worn with a 3M™ Elavation™ full body harness, and activation is achieved by simply pulling the release cord, allowing for self-rescue. The lightweight, unobtrusive rescue device is contained in a small “backpack” that integrates rescue capabilities into your personal fall arrest equipment. In the event of a fall, the Elavation harness suspends the user and allows the Latchways PRD to gently lower him or her to the ground, unassisted, in a controlled descent. If the user is unable to self-rescue, the device may be activated by another person. The PRD features 65 feet of rope, which is released at a controlled rate through an integral braking mechanism.

**LATCHWAYS PRD™ WITH 3M™ ELAVATION™ HARNESS FEATURES**

- **Self-activated with intuitive mechanism; NO SPECIALIST training required**
- **Less costly and less complex than traditional rescue plans**
- **Simplifies rescue: release with a simple pull**
- **Immediately available to worker**
- **Burn victim down, not rescuer up**
- **Minimal pre-use checks**
- **Meets ANSI standards**
- **7510Q Elavation™ Premium Fall Protection Harness**

**ELAVATION™ PREMIUM HARNESS**

- **7510Q Elavation™ Premium Fall Protection Harness**

**ESCAPE AND RESCUE**

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TWO OPTIONS FOR RESCUE:

1. **SELF-RESCUE**
   - Bring the victim down, not the rescue up.

2. **ASSISTED RESCUE**
   - If the user is not able to self-rescue, the device may be activated by another person using a Latchways Rescue Pole.

HOW IT WORKS (FOR SELF-RESCUE)

1. Check the ground below to ensure descent path is clear and a safe landing is possible.
2. Open the flap on the right shoulder strap to access the release cord.
3. Pull sharply on the release cord.
4. Prepare for landing by bending knees slightly.

STANDARDS
- The Latchways PRD™ with 3M™ Elavation™ harness conforms to the following standards:
  - The Elavation™ harness conforms to:
    - ANSI Z359.1-2007
  - The Latchways PRD™ conforms to:
    - ANSI Z359.4-2007
  - The “backpack” and harness conform to:
    - Waterproof and dustproof IP56 (Ingress Protection)
    - -4°F (-20°C) to +140°F (60°C) operating temperature

PRODUCT DETAILS
- **COMPONENT PARTS**
  - Descent rope lifeline made from UHMWPE rope with aramid overbraid
- **DESCENT HEIGHT**
  - 65 feet (20 m)
- **COMPLETE WEIGHT**
  - 7510Q (S-M) 10.6 lbs (4.8 kg)
  - 7510Q (L-XL) 10.7 lbs (4.85 kg)
  - 7510Q (XXL) 10.9 lbs (4.94 kg)
- **SYSTEM CAPACITY**
  - 310 lbs (140 kg)
- **DESCENT SPEED**
  - Up to 6-3/5 ft/sec. (2 m/sec.)
- **TRAINING**
  - Minimal user training required — no annual user refresher training required
- **PRE-USE CHECKS**
  - The Latchways PRD™ has been designed to be user-friendly, with minimal pre-use checks required. The descent device, harness and backpack should be checked for any signs of use in a descent, damage, corrosion, chemical attack or altering.
- **MAINTENANCE**
  - Periodic examination is limited to a series of visual inspections carried out by a competent person (full instructions provided).

ASSISTED RESCUE
- If the user is not able to self-rescue, the device may be activated by another person using a Latchways Rescue Pole.

ESCAPE AND RESCUE

Product Codes and Descriptions

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>PRODUCT NAME</th>
<th>PRODUCT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRD-7510Q (S-M)</td>
<td>Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (S-M)</td>
<td>Elevation Harness, size small-medium, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.</td>
</tr>
<tr>
<td>PRD-7510Q (L-XL)</td>
<td>Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (L-XL)</td>
<td>Elevation Harness, size L-XL, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.</td>
</tr>
<tr>
<td>PRD-7510Q (XXL)</td>
<td>Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (XXL)</td>
<td>Elevation Harness, size XXL, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.</td>
</tr>
<tr>
<td>PRD-RescPole</td>
<td>Latchways Rescue Pole for Latchways Personal Rescue Device™ (PRD™)</td>
<td>Used with Latchways PRD™ to rescue an unconscious worker needing rescue. Collapsed length 2 feet 8 inches, and 11 feet 2 inches at full extension.</td>
</tr>
</tbody>
</table>
Taking escape and rescue to new heights

3M™ and DEUS™ Controlled Descent Device Features

LIGHTWEIGHT & PORTABLE
Lightweight and pocket-sized device is easy to carry with you.
- 3700 device is just 2-4/5 lbs. (1.27 kg) without rope and carabiner
- 3300 device is just 2 lbs. (0.9 kg) without rope and carabiner
Lightweight rope for controlled descent does not require user to double up the rope with device, making overall weight of system easier to transport.
- 100 feet of 8 mm rope is 3-3/10 lbs. (1.49 kg)
- 100 feet of rope for 100 feet of controlled descent distance (vs. 100 feet of rope for 50 feet of controlled-descent distance, like other rescue systems in the market)

COST-SAVING VERSATILITY
The rope is not integrated, which means the same device can be used with different rope lengths based on working height or training requirements. The descent device can also be used for emergency and training purposes simply by switching out training rope. User can replace rope in seconds.

YOUR ALL-IN-ONE ESCAPE AND RESCUE SYSTEM
Use the 3700 or 3300 device for a variety of rescue applications at heights up to 590 feet* including individual and multi-person escape, self-rescue and assisted rescue, including two-person rescue.

WHEN SECONDS COUNT
Descent speed limited to a safe 2 m/sec or 3 m/sec., (6-3/5 ft./sec. or 9-4/5 ft./sec.) depending on model.

IDEAL FOR USE IN HARSH ENVIRONMENTS
Features a rock-solid case and steel, brass and titanium components. Sealed internal brakes are protected from corrosion.

REDUCED HEAT BUILD-UP
“Away-from-rope” braking reduces heat and mechanical damage. Combined with fire-resistant rope (to 925°F), the controlled descent system provides superior performance.

STAY IN CONTROL
The control dial is all you need for a completely controlled descent, even with heavy gloves. Stop, or go and change speed anytime during descent with a twist of the dial.

PEACE OF MIND
Four independent brakes provide reinforced safety.
- Drum brake with oversize control dial for adjusting descent speed or to “stop” or “go” hands-free
- Centrifugal brake automatically guards against free fall
- Figure-8 — hands-free and self-adjusting — for redundant safety
- Manual rope tailing brake for precise control

LIMITED LIFETIME WARRANTY
The same device can be used year after year even if used for an escape or rescue. Always return device after use in an emergency evacuation situation or every three years for inspection by a DEUS™ authorized repair center.

USE ONLY WITH 3M AND DEUS™ ROPE FOR WORK AND TRAINING.
3M™ and DEUS™ ropes are engineered and crafted for safety, performance, durability and work in synergy with 3M™ and DEUS™ equipment under a variety of specific, often extreme conditions. A range of different polymer fibers and braiding techniques are used to make 3M™ and DEUS™ ropes with specific properties to ensure your 3M™ and DEUS™ 3000 Series devices work properly and to the appropriate standards.

IDEAL FOR USE IN HARSH ENVIRONMENTS
| 7-1/2 mm and 8 mm rope has polyester sheath and Technora® core, which is fire resistant to 925°F. |
| 12 mm belay rope and 7-1/2 mm blue RTU ropes have a polyester sheath and nylon core. |

130 DEUS™ Escape and Rescue Products distributed by 3M
Training required before use. Please contact your 3M Representative.

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Each of the 3M™ and DEUS™ 3000 Series devices provides simple, hands-free operation, quadruple-redundant brakes to guard against free fall, “carry-it-with-you-always” portability and rugged construction. When lives are on the line, trust 3M and DEUS for personal escape and rescue.

What really sets the 3M and DEUS 3000 Series apart from the rest is the amazing versatility. Devices in the 3M and DEUS 3000 Series are useful tools in multiple situations. Each 3000 Series device can provide a safe, simple basis for individual and multi-person escape, assisted rescue, self-rescue, work positioning, travel restraint and rescue training.

Compared to other controlled-descent solutions, the 3M and DEUS 3000 Series is the top of the class with its advanced technology, unmatched ease-of-use, superior safety and practical portability. And the amazing versatility puts the 3M and DEUS 3000 Series in a class all its own.

**3700 CONTROLLED-DESCENT DEVICE**

**3M Product No.:** 3700

**TECHNICAL**

- Approved for one-person or two-person use
- Operation: Hands-free or manual
- Descent Rate: 2 m/sec. (6-3/5 ft/sec.) at 310 lbs. (140.61 kg)
- Min. Weight: 130 lbs. (59 kg) per ANSI
- Max. Weight: 310 lbs. (140 kg) per ANSI
- Max. Descent Height: One-person 590 ft. (180 m)
- Rope: Use 3M™ and DEUS™ 8 mm orange kernmantle rope

**CONSTRUCTION**

- Aluminum, stainless steel, titanium and brass

**WEIGHT & DIMENSIONS**

- Weight without rope and carabiner: 2-4/5 lbs. (1.27 kg)
- Dimensions: 5-3/10 in. height x 3-1/5 in. width x 2-1/5 in. depth (13 cm x 10 cm x 6 cm)
- Certifications: ANSI Z359.4-2007, EN341:2012/Type 1, Class B, CSA Z259.1-2013/Type 1, Class B
- Warranty: Limited Lifetime Warranty (Renew every three years)

**3300 CONTROLLED-DESCENT DEVICE**

**3M Product No.:** 3300

**TECHNICAL**

- Approved for one person
- Operation: Hands-free or manual
- Descent Rate: 3 m/sec. (9-4/5 ft/sec.) at 310 lbs. (140.61 kg)
- Min. Weight: 310 lbs. (140.61 kg)
- Max. Weight: 310 lbs. (140.61 kg)
- Max. Descent Height: 350 ft. (106 m)
- Rope: Use 3M™ and DEUS™ 7-1/2 mm green kernmantle rope

**CONSTRUCTION**

- Aluminum, stainless steel, titanium and brass

**WEIGHT & DIMENSIONS**

- Weight without rope and carabiner: 2 lbs. (0.9 kg)
- Dimensions: 5-3/10 in. height x 3-1/2 in. width x 2-1/10 in. depth (13 cm x 9 cm x 6 cm)
- Warranty: Limited Lifetime Warranty (Renew every three years)

For two-person descent or heavy loads, always maintain manual control.

**ESCAPE — INDIVIDUAL**

Carry it pre-rigged so it’s ready when you need it — just anchor and go, under manual control or fully hands-free in “stop” or “go” mode.

**ESCAPE — RAPID SEQUENTIAL EVACUATIONS**

3M™ and DEUS™ 3000 Series devices can be used to safely evacuate people from high places, one after another. No need for re-rigging between descents because 3M™ and DEUS™ 3000 Series devices operate in both directions.

**SELF-RESCUE AFTER A FALL**

The problem with fall protection equipment is that it only stops the fall. Getting down is another matter... and a 3M™ and DEUS™ 3000 Series device can help. Rather than waiting to be rescued (and risking suspension trauma), use a 3M™ and DEUS™ 3000 Series device to rescue yourself.

**TWO-PERSON ASSISTED RESCUE**

With the addition of an extra carabiner, each 3M™ and DEUS™ 3000 Series device can be rigged to safely handle a two-person load under manual control.

**ASSISTED RESCUE**

3M™ and DEUS™ 3000 Series devices can be rigged for victim rescue, giving complete control — hands-free or manually — to the rescuer, ensuring the victim is lowered to safety quickly and easily.

**HANDS-FREE WORK POSITIONING**

Sometimes there’s work to be done off the ground. Your 3M™ and DEUS™ 3000 Series device is all you need — descend to position, turn the control knob to the “stop” position, ensure tension on the rope, and you can hold your position hands-free while you do your work.

Training required before use. Please contact your 3M Representative.
**ESCAPE KITS**

To provide workers with a safe, simple way down when things go wrong at height, look to the 3M™ and DEUS™ escape kits. Each kit provides all the basics, so escape during an evacuation emergency is just “two clips and go.”

**KIT CONTENTS:**
- 3700 Descent Device
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- 4 foot Rope-Over-Wire Anchorage Connector
- Three Carabiners

**DEUS 3700 | ESCAPE KITS**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Rope Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE37-50</td>
<td>Kit comes with 50 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IE37-100</td>
<td>Kit comes with 100 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IE37-200</td>
<td>Kit comes with 200 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IE37-300</td>
<td>Kit comes with 300 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IE37-350</td>
<td>Kit comes with 350 feet of 8 mm orange kernmantle rope</td>
</tr>
</tbody>
</table>

**ESCAPE AND RESCUE KITS**

An extensive kit with the tools to support individual and multi-person escape, assisted rescue and more, for workers at height using the 3700 descent device.

**KIT CONTENTS:**
Each Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:
- 3700 Descent Device
- 4:1 Rescue Transfer Unit (RTU)*
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- Three Carabiners
- One Edge Protector

*RTU for lifting and hauling
The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 7/16” blue kernmantle rope, Dynema® sling and autolock carabiners.

**DEUS 3700 | ESCAPE AND RESCUE KITS**

<table>
<thead>
<tr>
<th>Product #</th>
<th>Rope Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR37-50</td>
<td>Kit comes with 50 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IR37-100</td>
<td>Kit comes with 100 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IR37-200</td>
<td>Kit comes with 200 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IR37-300</td>
<td>Kit comes with 300 feet of 8 mm orange kernmantle rope</td>
</tr>
<tr>
<td>IR37-350</td>
<td>Kit comes with 350 feet of 8 mm orange kernmantle rope</td>
</tr>
</tbody>
</table>

**RESCUE TRANSFER UNIT**
A rescue transfer unit is a specialized piece of equipment used to raise a person who has fallen and is suspended from a piece of fall-protection equipment in order to transfer the load from the fall-protection device to a rigged and anchored controlled descent device. After the load is transferred to the controlled descent device, the unloaded fall-protection device is released so that controlled descent can proceed.
INDUSTRY-SPECIFIC KITS | 3700 DEVICE

OIL & GAS ESCAPE AND RESCUE KITS

Escape and assisted rescue kit for oil and gas applications, equipped with triple-lock carabiners and edge protectors to meet safety requirements in the oil and gas industry.

KIT CONTENTS:
Each Oil & Gas Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:
- 3700 Descent Device
- 4:1 Rescue Transfer Unit (RTU)*
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- Three Triple-lock Carabiners
- One Deluxe Edge Protector

*RTU for lifting and hauling
The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 3M™ and DEUS™ 7/16” blue kernmantle rope, Dynema® II sling and auto-lock carabiners.

BUCKET TRUCK ESCAPE KITS

Allows bucket truck workers to lower themselves in emergency situations.

KIT CONTENTS:
Each Bucket Truck Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:
- 3700 Descent Device
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Three Carabiners
- Two Edge Protectors

Angled-Descent Kit for Rig Escape
For an easy-to-use, reliable zip system, use the 3M™ and DEUS™ Angled-Descent Kit with a 3M™ and DEUS™ Escape and/or Rescue Kit. Ideal for oil and gas applications, the Angled-Descent Kit features a special gate that’s easy to open with one hand and allows for quick connection to a guy line for quick angled descent in emergency situations. The Angled-Descent Kit comes with a strap and carabiner to connect a guy line to the worker’s harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit. See page 17 for additional information.

DEUS™ Fall Protection Catalog | 3M.com/FallProtection | DEUS™ Escape and Rescue Products distributed by 3M
KITS I 3300 DEVICE

The Tower Escape Kit offers a complete escape kit for those who work on wind, telecommunications or utility towers.

KIT CONTENTS: Each Tower Escape Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3300 Descent Device
- 7.5 mm Green Kernmantle Escape & Rescue Rope (available in 300 and 350 foot lengths)
- Three Carabiners
- 4 foot Rope-Over-Wire Anchorage Connector

<table>
<thead>
<tr>
<th>Product #</th>
<th>Rope Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE33-300</td>
<td>Kit comes with 300 feet of 7.5 mm green kernmantle rope</td>
</tr>
<tr>
<td>GE33-350</td>
<td>Kit comes with 350 feet of 7.5 mm green kernmantle rope</td>
</tr>
</tbody>
</table>

DEUS 3300 | TOWER ESCAPE KITS

TOWER ESCAPE AND RESCUE KITS

Handle any type of tower emergency with this lightweight, compact kit. For professionals on wind, electrical or utility towers or other high structures, this kit is ideal for individual and multi-person escape and assisted rescue.

KIT CONTENTS: Each Tower Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3300 Descent Device
- 4:1 Rescue Transfer Unit (RTU)*
- 7.5 mm green kernmantle Escape & Rescue Rope (available in 300 foot and 350 foot lengths)
- Three Carabiners
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- One Edge Protector

*RTU for lifting and hauling
The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 3M™ 7-1/2 mm blue kernmantle rope, Dyneema® sling and autolock carabiners.

<table>
<thead>
<tr>
<th>Product #</th>
<th>Rope Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR33-300</td>
<td>Kit comes with 300 feet of 7.5 mm green kernmantle rope</td>
</tr>
<tr>
<td>GR33-350</td>
<td>Kit comes with 350 feet of 7.5 mm green kernmantle rope</td>
</tr>
</tbody>
</table>

Training required before use. Please contact your 3M Representative.
Ideal for training or rescue, the 3M™ and DEUS™ 7300 Controlled-Descent Device is a completely hands-free backup belay. It allows users to experiment with and perfect standard operating procedures for bailout, evacuation and rescue with confidence, knowing that backup belay is automatic and done right. It’s also ideal as a primary system at extreme heights for one person or sequential fixed evacuations.

**7300 CONTROLLED-DESCENT DEVICE**

| 3M Product No.: | 7300 |

**TECHNICAL**

- **Approved for:** Backup Belay or Fixed Evacuations
- **Operation:** Manual
- **Descent Rate:** 2 m/sec. (6-3/5 ft./sec.) at 310 lbs. (140.61 kg)
- **Max. Weight:**
  - 310 lbs. (140 kg) per ANSI, 275 lbs. (125 kg) per CSA, 330 lbs. (150 kg) per EN
- **Max. Descent Height:** One person 590 ft. (180 m)
- **Rope:** Use 3M and DEUS 12 mm kernmantle rope

**CONSTRUCTION**

Anodized Aluminum and Stainless Steel

**WEIGHT & DIMENSIONS**

- **Weight without rope:** 15.2 lbs. (6.89 kg)
- **Dimensions:** 7-9/10 in. height x 9-2/5 in. width x 3 in. depth (20 cm x 24 cm x 7.5 cm)
- **Certifications:**
  - ANSI Z169.4 (2007 ED) Multiple Use
  - CSA Z259.2-12 (2012 ED) Type 1, Class A
  - EN341 (2012 ED) Type 1, Class A
- **Warranty:** Limited Lifetime Warranty (Renew every three years)

**VIGILANT** — Unlike human belay operators, the DEUS™ 7300 instantly and automatically brings a worker safely to the ground if their primary system fails.

**RE-RIGGING UNNECESSARY** — This system is designed for repetitive use with rope running through the 7300 reversibly at all times, allowing for back-to-back evolutions.

**PROVEN RELIABLE** — NFPA, ANSI, CSA and EN certified.

**INSTANT AND AUTOMATIC BACKUP** — If descent speed exceeds 2 m/sec., the 7300 instantly and automatically takes control to guard against free fall. The 7300 features a “soft engagement” to prevent shock load and injury.

**HIGHLY FLEXIBLE** — Rig to a high anchor to support multiple sequential descents without re-rigging. Rig the system to an anchor on the ground, running the belay line through a high-anchor pulley. If you want to control descent via the free end of the rope, the rope is not integrated and can be replaced in seconds.

**BACKUP BELAY KITS**

Built around the innovative 7300 device, these kits provide superior belay to primary systems. The 7300 engages automatically, limits shock load and controls descent all the way to the ground.

**KIT CONTENTS:**

Each Backup Belay Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 7300 Backup Belay Device
- 12 mm White Kernmantle Escape & Rescue Rope with storage bag (available in 100 foot and 200 foot lengths). Rope storage bag will be size small or medium based on rope length ordered.
- Four Carabiners
- 4 foot Rope-Over-Wire Anchorage Connector
- Two O-rings

**PRODUCT #** | **ROPE LENGTH**
--- | ---
BI73-100 | Kit comes with 100 feet of 12 mm white kernmantle rope
BI73-200 | Kit comes with 200 feet of 12 mm white kernmantle rope
### Kermantle Rope

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZW-7.5L-50</td>
<td>7.5 mm green kermantle rope, 50 ft. length, one each</td>
</tr>
<tr>
<td>AZW-7.5L-100</td>
<td>7.5 mm green kermantle rope, 100 ft. length, one each</td>
</tr>
<tr>
<td>AZW-7.5L-200</td>
<td>7.5 mm green kermantle rope, 200 ft. length, one each</td>
</tr>
<tr>
<td>AZW-7.5L-300</td>
<td>7.5 mm green kermantle rope, 300 ft. length, one each</td>
</tr>
<tr>
<td>AZW-7.5L-350</td>
<td>7.5 mm green kermantle rope, 350 ft. length, one each</td>
</tr>
</tbody>
</table>

For use only with 3300 device* 7.5 mm green rope is NFPA certified.

*When purchasing replacement rope or a different length rope for an existing device, use 3700 device backplate to determine rope requirements. The last three digits of the model number indicate the version of the device and which rope to use. All model numbers ending in 005 will use 3M™ and DEUS™ 8 mm orange kermantle rope. All model numbers ending in 004 are earlier models and will use 3M™ and DEUS™ 7.5 mm green kermantle rope.

### Anchors

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2W-8.0-50</td>
<td>8 mm orange kermantle rope, 50 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-100</td>
<td>8 mm orange kermantle rope, 100 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-150</td>
<td>8 mm orange kermantle rope, 150 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-200</td>
<td>8 mm orange kermantle rope, 200 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-300</td>
<td>8 mm orange kermantle rope, 300 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-400</td>
<td>8 mm orange kermantle rope, 400 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-500</td>
<td>8 mm orange kermantle rope, 500 ft. length, one each</td>
</tr>
<tr>
<td>A2W-8.0-590</td>
<td>8 mm orange kermantle rope, 590 ft. length, one each</td>
</tr>
</tbody>
</table>

For use with 3700 device*

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>83208-100</td>
<td>12 mm white belay kermantle rope, 100 ft. length, one each</td>
</tr>
<tr>
<td>83208-200</td>
<td>12 mm white belay kermantle rope, 200 ft. length, one each</td>
</tr>
<tr>
<td>83208-300</td>
<td>12 mm white belay kermantle rope, 300 ft. length, one each</td>
</tr>
<tr>
<td>83208-350</td>
<td>12 mm white belay kermantle rope, 350 ft. length, one each</td>
</tr>
<tr>
<td>83208-400</td>
<td>12 mm white belay kermantle rope, 400 ft. length, one each</td>
</tr>
<tr>
<td>83208-500</td>
<td>12 mm white belay kermantle rope, 500 ft. length, one each</td>
</tr>
<tr>
<td>83208-590</td>
<td>12 mm white belay kermantle rope, 590 ft. length, one each</td>
</tr>
</tbody>
</table>

For use with 7300 device

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2WP-7.51-050</td>
<td>7.5 mm blue kermantle rope, 50 ft. length, one each</td>
</tr>
</tbody>
</table>

For use with RTU kit

### Anchors - Over-Wire (ROW)

<table>
<thead>
<tr>
<th>Product #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR-0832G-04</td>
<td>Green, 4 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-06</td>
<td>Green, 6 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-08</td>
<td>Green, 8 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-100</td>
<td>Green, 10 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-150</td>
<td>Green, 15 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-200</td>
<td>Green, 20 ft. length, one each</td>
</tr>
<tr>
<td>DR-0832G-300</td>
<td>Green, 30 ft. length, one each</td>
</tr>
</tbody>
</table>

For use with 3M™ and DEUS™ rope-over-wire (ROW) anchorage connectors combine the flexibility and ease-of-use of synthetic rope with the strength, durability and cut-resistance of steel cable.

### Angled-Descent Kits

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADK-GI</td>
<td>Angled-Descent Kit for attachment to guy line allows for quick angled descent in emergency situations. Angled Descent Kit includes device, strap and carabiner to connect guy line to worker's harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit.</td>
</tr>
<tr>
<td>ADK-OG</td>
<td>Angled-Descent Kit for attachment to guy line allows for quick angled descent in emergency situations. Angled Descent Kit includes device, strap and carabiner to connect guy line to worker's harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit. Triple-lock carabiner ideal for oil and gas applications.</td>
</tr>
</tbody>
</table>

### RTU Kits

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTU</td>
<td>RTU is a mechanical advantage 4:1 system for vertical rescue lifting. Pre-rigged kit contains one cam locking pulley, one double pulley with integral swivel and 50 ft. of 7-1/2 mm blue kermantle rope, two carabiners, Dyneema® sling and a storage bag. Working length of 12-1/2 feet.</td>
</tr>
<tr>
<td>RTU-OG</td>
<td>RTU is a mechanical advantage 4:1 system for vertical rescue lifting. Pre-rigged kit contains one cam locking pulley, one double pulley with integral swivel and 50 ft. of 7-1/2 mm blue kermantle rope, two triple-lock carabiners, Dyneema® sling and storage bag. Triple-lock carabiner ideal for oil and gas applications. Working length of 12-1/2 feet.</td>
</tr>
</tbody>
</table>

### Carabiners & O-Rings

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAL-2</td>
<td>Steel pear-shaped, double-lock carabiner for use with 3M™ and DEUS™ Escape and Rescue Kits. 4-1/2 in. overall length, internal 3-1/2 in. x 2-1/2 in., gate opening of 1 in. 10,000 lbs. with 3,600 lbs. gate rated.</td>
</tr>
<tr>
<td>STL-3</td>
<td>Steel pear-shaped, triple-lock carabiner for use with 3M™ and DEUS™ Oil and Gas Escape and/or Rescue Kits. 4-1/2 in. overall length, internal 3-1/2 in. x 2-1/2 in., gate opening of 1 in. 10,000 lbs. with 3,600 lbs. gate rated.</td>
</tr>
<tr>
<td>DEUS-O2</td>
<td>Rope termination thimble, which eliminates rope wear caused by carabiner or other connector. #2 sized for 7-1/2 mm and 8 mm rope.</td>
</tr>
<tr>
<td>DEUS-O4</td>
<td>Rope termination thimble, which eliminates rope wear caused by carabiner or other connector. #4 sized for 12 mm rope.</td>
</tr>
</tbody>
</table>
**COMPONENTS/PARTS/ACCESSORIES**

### Storage Bags

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR045</td>
<td>Black storage bag for belay rope storage. Dimensions: 2 ft. width x 1 ft. diameter.</td>
</tr>
<tr>
<td>DR160-XS</td>
<td>Black storage bag for Escape and Rescue kit. Dimensions: 5 ft. in height. Bag is for rope lengths up to 100 ft. of 8 mm rope.</td>
</tr>
<tr>
<td>DR160-S</td>
<td>Black storage bag for Escape and Rescue kit. Dimensions: 10 in. in height. Bag is for rope lengths up to 250 ft. of 8 mm rope or 50 ft. of 12 mm rope.</td>
</tr>
<tr>
<td>DR160-M</td>
<td>Black storage bag for Escape and Rescue kit. Dimensions: 15 in. in height. Bag is for rope lengths up to 300 ft. of 8 mm rope or 100 ft. of 12 mm rope.</td>
</tr>
<tr>
<td>DR160-L</td>
<td>Black storage bag for Escape and Rescue kit. Dimensions: 20 in. in height. Bag is for rope lengths up to 350 ft. of 8 mm rope and RTU kit.</td>
</tr>
<tr>
<td>DR241</td>
<td>Black storage bag to store 3M™ and DEUS™ Rescue Transfer Unit (RTU). Dimensions: 10 in. in height.</td>
</tr>
</tbody>
</table>

### Straps/Slings

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>753024</td>
<td>Strap used to form lower attachment point on harness using side D-rings. Also for use as replacement strap on 3M™ and DEUS™ Angled-Descent Devices. Technora™ webbing is fire and cut resistant. 5,000 lb rated. 24 in. length. NFPA-G certified. Tan color.</td>
</tr>
<tr>
<td>753012</td>
<td>Strap used to form lower attachment point on harness using side D-rings. Also for use with 3M™ and DEUS™ Angled-Descent Devices when a shorter strap is preferred. Technora™ webbing is fire and cut resistant. 5,000 lb rated. 12 in. length. NFPA-G certified. Tan color.</td>
</tr>
<tr>
<td>DR-DYNS-024</td>
<td>Dynema® web sling can be used to form Prusik loop when using our Rescue Transfer Unit. It is lightweight and cut resistant. 5,000 lbs. rated. 24 in. length. Various colors.</td>
</tr>
</tbody>
</table>

### Edge Protectors for Use on Bucket Trucks

<table>
<thead>
<tr>
<th>Product #</th>
<th>Kit Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR100</td>
<td>Designed with proprietary laminate and nylon to protect moving and non-moving rope from damage when in contact with a leading edge. Dimensions: 17 in. x 6 in.</td>
</tr>
<tr>
<td>DR1040G-12</td>
<td>Designed with proprietary laminate and nylon to protect moving and non-moving rope from damage when in contact with a leading edge. Dimensions: 12 in. x 2.25 in.</td>
</tr>
</tbody>
</table>

### Consider front and side D-rings when choosing a 3M™ Harness to be used with any of the 3M™ and DEUS™ Escape and Rescue products.

Ideal options include the 3M™ Elavation™ Harness 7511FQ and 3M™ Elavation™ Harness 7512FQ.

**3M™ Elavation™ Full Body Harness 7511FQ**

- S-M, L-XL, XXL
- 400 lbs. capacity

**3M™ Elavation™ Full Body Harness 7512FQ**

- 3M™ Elavation™ Premium Fall Protection Harness with Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front, Back and Side D-rings with padded positioning belt with toolbelt holder. Protective covers for Label Pack, Web Keepers and Lanyard Keepers.
- S-M, L-XL, XXL
- 400 lbs. capacity

**Latchways Rescue Pole can be used with any 3M™ and DEUS™ Escape and Rescue Kit to aid in use with the Rescue Transfer Unit (RTU) for assisted-rescue applications. Collapsed pole length: 2 feet, 8 inches. Fully extended: 11 feet, 2 inches. Product code: PRD-RescPole.**
ROOFING KITS

With 3M portable safety kits, fall protection goes wherever you go. Available for roofing and aerial lift applications, our convenient kits contain the essential components of a personal fall arrest system.

ROOFING KITS

3M roofing kits are not only designed for compliance with most roofing applications, they are designed for versatility as well, offering you a wide selection of fall protection equipment in one convenient container. Choose the harness, lanyard, anchor and rope adjuster or fall arrester that’s just right for your work environment and situation. Kits come in either a durable storage bucket or tool bag (customize logo option for bag).

This roofing kit contains:
- **3M™ SafeLight Harness 10910 (Universal)**
- **3M™ SafeLight 6 foot Lanyard with Snap Hooks 209512**
- **3M™ 50 foot Vertical Rope Lifeline with Manual Rope Adjuster 0221-50RG**
- **3M™ Reusable Roof Anchor 4000**
- **3M™ Storage Bucket 5000**

This economy roofing kit includes:
- **3M™ Three-Point Harness 10810 (Universal)**
- **3M™ 3 ft. Energy- Absorbing Lanyard with Manual Rope Adjuster 0221-50RG**
- **Two 3M™ Single-use Disposable Roof Anchors 4651X**
- **3M™ Reusable Roof Anchor 4000**
- **3M™ Tool Bag 4521**

This economy roofing kit includes:
- **3M™ Three-Point Harness 10810 (Universal)**
- **3M™ 3 ft. Energy- Absorbing Lanyard with Manual Rope Adjuster 0221-50RG**
- **Two 3M™ Single-use Disposable Roof Anchors 4651X**
- **3M™ Reusable Roof Anchor 4000**
- **3M™ Tool Bag 4521**

**CORE ITEM** Our best selling equipment — in stock and in demand.
AERIAL KITS

For workers in aerial and scissor lifts, these kits are designed to help simplify regulatory compliance and inventory management. As part of your personal fall arrest system, the aerial kits offer a variety of harness and lanyard combinations to choose from, while the anchor itself is found on the actual lift. Kits come in a handy storage bag that can be customized with your logo.

30500 ♦ Aerial Kit

This kit for use on aerial lifts contains the 3M™ SafeLight Fall Protection Harness 10910 (Universal), the 3M™ SafeLight 6 foot Low Profile Energy-Absorbing Lanyard with Snap Hooks 209512 and 3M™ Tool Bag 4514 for storage.

30510 ♦ Aerial Kit

This kit for use on aerial lifts contains the 3M™ Ameba Harness 1450 (Universal), the 3M™ SafeLight 6 foot Low Profile Energy-Absorbing Lanyard with Snap Hooks 4712-6 and the 3M™ Tool Bag 4514 for storage.

30514 ♦ Aerial Kit

This kit for use on aerial lifts contains the 3M™ SafeLight Fall Protection Harness 10950 (Universal), the 3M™ SafeLight 6 foot Low Profile Energy-Absorbing Lanyard with Snap Hooks 209712 and 3M™ Tool Bag 4514 for storage.

CustomLogo

Logo minimum order requirements:
The aerial kits have an option to have a custom logo applied to the harness and/or the storage bag. Minimum 15-piece opening order required for kits with logos. Minimum of five pieces required for reorders.

Order a custom logo harness by adding -H to the end of your product number (ex: 30500-H). Order a custom logo bag by adding -S to the end of your product number (ex: 30500-S). To order custom logos on both harness and bag, add -H and -S to the end of your product number (ex: 30514-HS).

Bag logo specifications:
Dimensions — 5 inch height x 5 inch width
Colors — Two maximum
Location — One side of bag only, other side has a 3M logo
Format — .eps or .ai files to be provided
See page 35 for harness logo specifications.

Vest Harness Aerial Kits

Our best selling equipment — in stock and in demand.
**HARDWARE AND ACCESSORIES**

From storage bags and carabiners to replacement belts and D-ring extenders, our accessories deliver the same high quality and reliability you’ve come to expect from 3M. With safety and security always in mind, 3M™ Fall Protection is dedicated to meeting the demands of your job.

### Hardware

#### 0210-07 Carabiner
Steel auto-block carabiner with 3/8 inch gate opening.

#### 0210-3-07 Carabiner
Large teardrop steel auto-block carabiner with 2-1/10 inch gate opening.

### Storage

#### 4514 Fall Protection Equipment Small Storage Bag
Black storage bag ideal for lanyard and harness storage. Dimensions: 13 in. length x 9 in. diameter

#### 4521 Fall Protection Equipment Medium Storage Bag
Black storage bag ideal for lanyard and harness storage. Dimensions: 20 in. length x 9 in. diameter

#### 4701 Fall Protection Equipment Large Storage Bag
Extra-large black storage bag ideal for lanyard and harness storage. Dimensions: 19 in. length x 12 in. width x 12 in. height

#### 5000 Empty Roofing Kit Bucket
Empty five gallon bucket with lid. Can be used for storing roofing kits.

### Harness Accessories

- **5550 Harness D-Ring Extender**
  Harness D-ring Extender with snap hook and D-ring connection provides a 18 inch extender for a lanyard or self-retangling lanyard snap hook to be attached to back D-ring of harness.

- **5551 Harness D-Ring Extender**
  Harness D-ring Extender with rebar hook and D-ring connection provides a 18 inch extender for a lanyard or self-retangling lanyard snap hook to be attached to back D-ring of harness.

- **5552 Harness D-Ring Extender**
  Harness D-ring Extender provides an 18 inch extender with soft-loop choke connection with two split D-rings for 100% tie-off.

- **2501 Harness Leg Pad Set Large**
  Harness Leg Pad Set Large

- **2500 Harness Leg Pad Set Small**

- **R-100 Suspension Trauma Strap**
  Suspension Trauma Strap helps to relieve discomfort normally associated with prolonged suspension. 70 inch overall length.

- **2110-WB-S Replacement Belt for Harness**
  Replacement Belt for Harness, Small (30 in.–43 in.)

- **2110-WB-M Replacement Belt for Harness**
  Replacement Belt for Harness, Medium (34 in.–47 in.)

- **2110-WB-L Replacement Belt for Harness**
  Replacement Belt for Harness, Large (39 in.–52 in.)

- **2110-WB-XL Replacement Belt for Harness**
  Replacement Belt for Harness, XL (44 in.–57 in.)

- **2110-WB-XXL Replacement Belt for Harness**
  Replacement Belt for Harness, XXL (49 in.–62 in.)

**CORE ITEM** Our best selling equipment — in stock and in demand.

*For Xterra™ Confined Space, 3M™ and Deus™ escape and rescue product accessories and hardware, see applicable product sections in the catalog.*
Regulations

The Occupational Safety and Health Act (OSHA) of 1971 made employers legally responsible for making their place of work safe for employees. In order to enforce the OSHA Act, the Occupational Safety and Health Administration (OSHA) was created. In addition to enforcement, OSHA proposes new safety regulations and continuously updates existing ones, both of which must go through a comprehensive process to become law. Employers have to meet all of the applicable OSHA regulations, including the General Duty Clause, which requires employers to keep their workplace free of serious recognized hazards such as falls. OSHA fall protection regulations state when fall protection is required and describe basic equipment requirements. OSHA does not explain how to use fall protection. For application questions, contact your 3M Fall Protection Representative. OSHA explicitly addresses fall protection in the following sections:

<table>
<thead>
<tr>
<th>Standards for Fall Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall protection standards organizations such as the American National Standards Institute (ANSI) and the Canadian Standards Association (CSA) are made up of industry experts that agree upon and standardize requirements for the manufacture of fall protection equipment; they are voluntary. For the most part, fall protection standards focus on equipment performance, strength, testing and labeling, but some offer guidance on forming a managed fall protection program: ANSI Z359.2 (2007). If a standard is cited by the legislative body having jurisdiction, it becomes law and therefore must be followed by employers. Always make sure that your equipment meets the most up-to-date standards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<tbody>
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</tr>
</tbody>
</table>

### Industry Trigger Heights

<table>
<thead>
<tr>
<th>Industry</th>
<th>Trigger Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Industry</td>
<td>4 feet</td>
</tr>
<tr>
<td>Construction</td>
<td>6 feet</td>
</tr>
<tr>
<td>Steel Construction-Subpart R</td>
<td>15 feet</td>
</tr>
<tr>
<td>Marine Terminals</td>
<td>4 feet</td>
</tr>
<tr>
<td>Shipyard Employment</td>
<td>5 feet</td>
</tr>
<tr>
<td>Longshoring</td>
<td>8 feet</td>
</tr>
</tbody>
</table>

An OSHA exception: If there is a hazard below such as liquid filled tank or there is a dangerous surface or obstacle below, an employee must be protected even if the fall distance is less than a trigger height.

#### Note:
- The OSHA trigger heights for fall protection on fixed ladders is 20 feet–24 feet, depending on the industry; portable ladders that meet the OSHA criteria have no trigger height.

### ANSI Z359

#### Definitions and Nomenclature Used for Fall Protection and Fall Arrest

- **Fall Protection and Fall Arrest**
  - **Z359.0 (2009)**
- **Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components**
  - **Z359.1 (2007)**
- **Minimum Requirements for a Comprehensive Managed Fall Protection Program**
  - **Z359.2 (2007)**
- **Safety Requirements for Positioning and Travel Restraint Systems**
  - **Z359.3 (2007)**
- **Safety Requirements for Assisted Rescue and Self-Rescue Systems, Subsystems and Components**
  - **Z359.4 (2007)**
- **Specifications and Design Requirements for Active Fall Protection Systems**
  - **Z359.6 (2009)**
- **Qualification and Verification Testing of Fall Protection Products**
  - **Z359.7 (2011)**
- **Connecting Components for Personal Fall Arrest Systems**
  - **Z359.12 (2009)**
- **Personal Energy Absorbers and Energy-Absorbing Lanyards**
  - **Z359.13 (2009)**
- **Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems**
  - **Z359.14 (2012)**

### CSA STANDARDS

#### Full Body Standards

- **CAN/CSA-Z259.10-12**
- **Fall Restraint Equipment for Wood Pole Climbing**
  - **CAN/CSA-Z259.14-12**
- **Anchorage Connectors**
  - **CAN/CSA-Z259.15-12**
- **Self-Retracting Devices for Personal Fall-Arrest Systems**
  - **CAN/CSA-Z259.2.2-06 (R2009)**
  - **CAN/CSA-Z259.2.3-12**
- **Fall Arresters and Vertical Lifelines**
  - **CAN/CSA-Z259.2.5-12**
- **Body Belts and Saddles for Work Positioning and Travel Restraint**
  - **Z259.1-05 (R2010)**
- **Energy Absorbers and Lanyards**
  - **Z259.11-05 (R2010)**
- **Connecting Components for Personal Fall Arrest Systems (FFAS)**
  - **Z259.12-11**
- **Flexible Horizontal Lifeline Systems**
  - **Z259.13-04 (R2009)**
- **Design of Active Fall-Protection Systems**
  - **Z259.16-04 (R2009)**
- **Fall Arresters and Vertical Rigid Rails**
  - **Z259.2.4-12**
Inspection, Product Life and Warranty for Fall Protection

Inspection and Product Life

3M User Instructions state that fall protection products must be inspected prior to use and annually by an OSHA-defined "competent person" other than the user. Due to OSHA inspection requirements, 3M does not apply a mandatory shelf-life or expiration date on many of our fall protection products.

- OSHA 1910.66 and 1926.502 require no formal inspection period, only inspection by the user before each use.
- 1926.502(d)(21) specifically states: Personal fall arrest systems shall be inspected prior to each use for wear, damage and other deterioration, and defective components shall be removed from service.
- ANSI Z359.1-2007 states: Equipment shall be inspected by the user before each use and, additionally, by a competent person, other than the user, at intervals of no more than one year.
- ANSI A10.32-2004 states: Formal inspections shall be made by a qualified person on at least a semi-annual basis.

Because ANSI Z359 and A10.32 are national consensus standards and law does not require compliance, your company has the discretion to determine if the standard is applicable to your workplace. You may also wish to consult your insurance carrier or your legal counsel regarding your liability and your company’s liability if you choose to use safety equipment in a manner inconsistent from what is advised by the manufacturer.

Please note that it is very important for the user to inspect the equipment before each use. We strive to make our products easy to inspect by providing detailed inspection guidelines and criteria within the 3M User Instructions supplied with each product.

For current 3M User instructions please visit http://www.3M.com/FallProtection. Contact 3M Technical Service at 800-243-4630 if you have any questions or concerns.

Product Warranty, Limited Remedy and Limitation of Liability

WARRANTY: THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Equipment offered by 3M is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner.

LIMITED REMEDY: Upon notice in writing, 3M will repair or replace all defective items at 3M's sole discretion. 3M reserves the right to require that the defective item be returned to its plant for inspection before determining the appropriate course of action. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, failure to maintain the product or other damage beyond the control of 3M. 3M shall be the sole judge of product condition and warranty options. This warranty applies only to original purchaser and is the only warranty applicable to this product. Please contact 3M's technical service department at 800-243-4630 for assistance.

LIMITATION OF LIABILITY: IN NO EVENT WILL 3M BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.

Training

Training is required by OSHA for employees who might be exposed to fall hazards. Training must be delivered by a competent person (see 29 CFR 1926.503). At a minimum, training should include:

- Identifying fall hazards
- Setting up and dismantling fall protection equipment
- Performing prior-to-use equipment inspection
- Proper equipment storage and maintenance
- The safe use, operation and limitations of fall protection equipment and systems
- OSHA requirements/regulations for fall protection

As a best practice, training should include hands-on training where training participants are able to practice and demonstrate their competency. It is recommended in ANSI Z359.2 that training should occur every two years and be assessed annually. OSHA requires retraining when an employee demonstrates incompetence or the environment or equipment has changed. All training must be documented, and the documents must be retained.

Developing a Managed Fall Protection Program

Most businesses have developed a written fall protection program that clearly assigns roles and responsibilities, and spells out an organization’s policies for fall protection. This written program is strongly recommended, and when required, must be site, job and/ or application specific. Reasons for developing a program include ensuring compliance with legislation, legal defense from lawsuits and providing employees with clear guidance to keep them safe. A good program should include regulations, consensus standards, best practices, identification of fall hazards, a hierarchy system for addressing hazards, defined roles, training, inspection, regular audits and more.

Competent Person

According to OSHA 29 CFR 1910.32(f), a competent person is "one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them." The authority to take prompt corrective measures comes from the competent person’s employer. A competent person is often a manager, supervisor or a safety professional.

Authorized Person

"A person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the jobsite." [OSHA 1530.32(d)]. ANSI Z359.2 uses "authorized person" to mean any user of fall protection who is trained to correctly use fall protection, inspect equipment prior to use and will notify a competent person if he/she recognizes a hazard or if equipment fails a prior-to-use inspection.

WARRANTY, LIMITED REMEDY AND LIMITATION OF LIABILITY

WARRANTY: THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Equipment offered by 3M is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner.

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Best Practices for Fall Protection

Clearance
Fall arrest systems require a certain amount of open, unobstructed distance below the user so that in the event of a fall, the worker will not hit any objects. There are many types of fall arrest systems, each with different clearance requirements, so it’s important to read the manufacturer’s instructions. The amount of clearance required often will dictate the type of fall arrest system that can be used (see figure 1).

Swing Fall
Not only must a user of fall arrest be concerned with vertical clearance but also be aware that a pendulum-like swing can occur during a fall if the worker is off to the side of the anchorage when he/she falls. A pendulum swing must be taken seriously because a pendulum swing of 6 feet has the same amount of energy as a vertical fall of 6 feet. A swing fall into a wall or exposed rebar can cause serious injury or death. Work as near the anchorage as possible to help avoid swing-fall hazards (see figure 2).

Rescue
Often, the most overlooked component of fall arrest is rescue. A suspended victim must be rescued promptly to reduce the chance of injury caused by suspension trauma, or venous blood pooling. Whenever fall arrest is used, a rescue plan must be in place to ensure a suspended worker is promptly rescued. Relying on public-sector emergency-rescue services is inadequate as the time it may take to rescue a victim could be too long. A rescue plan can be very simple, such as using an aerial work platform. The important point is to have a rescue plan and practice it.

Figure 1 (Clearance)

Figure 2 (Swing Fall)
Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users must read and understand the User Instructions provided with the product and be properly trained by their employer prior to use per OSHA 1910.66 and 1926.503 or applicable local standards. Misuse or failure to follow warnings and instructions may result in serious personal injury or death.

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For More Information

Sales Assistance: 800-328-1667
Technical: 800-243-4630 in U.S.A.
Service: 800-267-4414 in Canada
Website: www.3M.com/FallProtection

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