LAD-SAF™ X2
Detachable Cable Sleeve

SECURITY AND CONFIDENCE AT HEIGHT

THE ULTIMATE IN FALL PROTECTION
THE DANGERS OF WORKING AT HEIGHT
Every day, workers around the world climb ladders to great heights to get their job done. Working at heights creates danger and a need for maximum security. A fall can happen at any time and on any structure, during the climb to the top or on the way down.

THE SOLUTION
The Lad-Saf™ X2 Detachable Cable Sleeve is part of a permanently installed ladder safety system that offers complete fall protection for the worker. It is designed to work with many different styles and lengths of ladders on structures like wind turbines, communication towers, buildings, water towers and more.

EASY TO INSTALL AND DETACH
The Lad-Saf X2 is designed for one-handed attachment or detachment anywhere along the cable.

PRIMARY AND SECONDARY LOCKING SYSTEMS
In the event of a fall, the sleeve immediately locks into place and remains locked until the user can regain his footing. Even if something interferes with the primary locking system, a secondary locking system will engage to lock the sleeve onto the cable.

INTEGRATED ENERGY ABSORBER/FALL INDICATOR
The integrated energy absorber limits the maximum fall arrest force to 1,350 pounds (6 kN) or less, which meets or exceeds applicable standards. This absorber also acts as a fall indicator, showing the device has been deployed and needs to be taken out of service.

EASY TO CLIMB
The Lad-Saf X2 Detachable Cable Sleeve is a portable connection device that connects the worker’s harness to the ladder cable and glides freely up or down the cable as the worker climbs. Once attached, the sleeve does not require any further handling by the climber and allows the climber to move up and down the entire length of the ladder safety system with ease and confidence.
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**Features and Benefits**

**EASY TO CLIMB**
The Lad-Saf X2 sleeve automatically follows the climber during ascent or descent.

**EASY TO INSTALL AND DETACH**
One-handed attachment or removal from the cable delivers fast, easy and safe connections. The sleeve can be attached anywhere along the cable for added versatility.

**PRIMARY AND SECONDARY LOCKING SYSTEMS**
Two independent locking systems, including a mechanical and inertia locking system, in the event of a fall.

**INTEGRATED ENERGY ABSORBER/FALL INDICATOR**
Deploys in the event of a fall, limits the maximum fall arrest force to 1,350 pounds (6 kN) or less, and shows the device must be taken out of service.

**COMPACT AND CORROSION RESISTANT**
Compact and lightweight design has stainless steel construction to stand up to harsh environments.

**GENERAL SPECIFICATIONS:**
- For use with 3/8 inch (9.5 mm) or 5/16 inch (8 mm) diameter 1x7 or 7x19 solid core cable
- Capacity = 1 user of 310 lbs. (140.6 kg)
- Mechanical and inertia locking system
- Size = 5 inches (12.7 cm) x 6 inches (15.24 cm)
- Weight = 2.5 lbs. (1.13 kg)

**MATERIALS AND CONSTRUCTION:**
- Body: Heat Treated Stainless Steel
- Rivets: Stainless Steel
- Locking Cam: Heat Treated Stainless Steel
- Springs: Stainless Steel
- Side Plates and Ext. Pieces: Stainless Steel
- Construction: Riveted Assembly

**LAD-SAF™ FLEXIBLE CABLE LADDER SAFETY SYSTEM**
The Lad-Saf™ Flexible Cable Ladder Safety System consists of a top and bottom bracket that act as anchors for a steel cable that runs the length of the climbing area. The Lad-Saf X2 sleeve, attached by carabiner to the harness, arrests falls by locking onto the cable.

Designed for ease of use, economy and versatility, optional brackets/moment designs are available for bolting or welding the system. There is a choice of rung clamp sizes/styles and there are systems for straight ladders and for connection to wood, concrete or steel structures.

**TENSION INDICATOR**
Integrated tension indicating bottom bracket takes the guesswork out of installation.

**CUSTOMIZABLE**
Hundreds of different brackets, styles and configurations for any application.

**CORROSION RESISTANT CONSTRUCTION**
Galvanized and stainless steel construction stands up to harsh environments for maintenance free longevity.

**SHOCK ABSORBING DESIGN**
Integrated shock absorbing top bracket reduces forces imposed on ladder structure during a fall.

**INTERMEDIATE CABLE GUIDES**
Non-metallic cable guides prevent cable wear against the ladder and permits the climber to bypass without disconnecting.

**STANDARD TOP BRACKET**
Galvanized top bracket with mounting hardware. For systems up to 499 ft. (152m) high, fits up to 1-1/8" (2.85 cm) rung diameter and attaches to 3 rungs. Includes built-in energy absorber.

**CABLE LIFELINE**
Galvanized cable, 3/8" (9.5mm) diameter, 1x7 type. Last 3 digits in part number indicate length.

**CABLE GUIDE**
Non-metallic cable guide with mounting hardware. For systems up to 199 ft. (60.6 m), fits up to 1-1/8" (2.85 cm) rung diameter. Must have 1 every 25 ft. (7.6 m).

**STANDARD BOTTOM BRACKET**
Climbing sleeve for easy to climb operation and fall protection.

**LAD-SAF X2 DETACHABLE CABLE SLEEVE**
Climbing sleeve for easy to climb operation and fall protection.
**LAD- SAF™ FLEXIBLE CABLE LADDER SAFETY SYSTEM**

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- Capacity = 1 user of 310 lbs. (140.6 kg)
- Mechanical and inertia locking system
- Size = 5 inches (12.7 cm) x 6 inches (15.24 cm)
- Weight = 2.5 lbs. (1.13 kg)

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- Body: Heat Treated Stainless Steel
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- Construction: Riveted Assembly

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**Detachable Cable Sleeve**

**EASY TO CLIMB**
The Lad-Saf X2 sleeve automatically follows the climber during ascent or descent.

**EASY TO INSTALL AND DETACH**
One-handed attachment or removal from the cable delivers fast, easy and safe connections. The sleeve can be attached anywhere along the cable for added versatility.

**PRIMARY AND SECONDARY LOCKING SYSTEMS**
Two independent locking systems, including a mechanical and inertia locking system, in the event of a fall.

**INTEGRATED ENERGY ABSORBER/FALL INDICATOR**
Deploys in the event of a fall, limits the maximum fall arrest force to 1,350 pounds (6 kN) or less, and shows the device must be taken out of service.

**COMPACT AND CORROSION RESISTANT**
Compact and lightweight design has stainless steel construction to stand up to harsh environments.

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**STANDARD TOP BRACKET**
Galvanized top bracket with mounting hardware. For systems up to 499 ft. (150m) high, fits up to 1-1/8” (2.85 cm) rung diameter and attaches to 3 rungs. Includes built-in energy absorber.

**616280**
Standard top bracket and hardware for systems over 500 ft. (152.4 m).

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**CABLE LIFELINE**
Galvanized cable, 3/8” (9.5mm) diameter, 1x7 type. Last 3 digits in part number indicate length.

**6100000**

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**CABLE GUIDE**
Non-metallic cable guide with mounting hardware. For systems up to 199 ft. (60.6 m), fits up to 1-1/8” (2.85cm) rung diameter. Must have 1 every 25 ft. (7.6 m).

**6100400**
Cable guide (L-shaped) and hardware for systems over 200 ft. (61 m).

**6100515**

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**STANDARD BOTTOM BRACKET**
Climbing sleeve for easy to climb operation and fall protection.

**6160030**

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**LAD-SAF X2**
DETACHABLE CABLE SLEEVE
Climbing sleeve for easy to climb operation and fall protection.

**6160030**

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**STANDARD BOTTOM BRACKET**
Fits up to 1-1/8” (2.85cm) rung diameter and attaches to 2 rungs. Galvanized bottom bracket includes built-in tension indicator.

**6100090**

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Lad-Saf X2 Detachable Cable Sleeve | 6160030
**Cable Ladder System Components**

**LAD-5AF™ TOP BRACKET**
Standard galvanized top bracket with mounting hardware. For systems up to 499 ft. (152m) high, fits up to 1-1/8” (2.85cm) rung diameter, attaches to 3 rungs, built-in energy absorber.

**Galvanized construction stands up to harsh environments for maintenance-free longevity.**

**EASY TO INSTALL**
Standard tools install bracket to ladder. No swaging necessary, system carrier clamp (strandvise) provides easy top bracket cable termination with no tools.

**LAD-5AF™ BOTTOM BRACKET**
Standard galvanized bottom bracket with mounting hardware. Fits up to 1-1/8” (2.85cm) rung diameter, attaches to 2 rungs, built-in tensioning device.

**INTERMEDIATE CABLE GUIDE**
Includes an i-Safe™ radio frequency identification (RFID) to simplify inspection and inventory control and provide records for your fall protection equipment.

**i-SAFE™ EQUIPPED**
**TERMINATION WITH NO TOOLS.**

**EASY TO INSTALL**
Standard tools install guides to ladder. No swaging necessary, carrier cable tensioner and saddle clips provide easy bottom bracket cable termination.

**LAD-5AF™ CABLE LIFELINE**
Non-metallic cable guide with mounting hardware. For systems up to 199 ft. (60.6m), fits up to 1-1/8” (2.85cm) rung diameter. Must have 1 every 25 ft. (7.6m).

**Features and Benefits**

**GENERAL SPECIFICATIONS:**
- Load Requirements: the top bracket is supplied with three rung connections, the load required for each rung for a single user system is 1,125 lbs. (5.0 kN) per rung (3,375 lbs. (15.0 kN)/3) - see details below:
  - Capacity = 1 to 4 user(s) at 310 lbs. (140.6 kg) each.
- Ladder rung strength requirements for:
  - One user on system: *3,375 lbs. (15.0 kN)
  - Two users on system: *4,350 lbs. (19.3 kN)
  - Three users on system: *5,325 lbs. (23.7 kN)
  - Four users on system: *6,300 lbs. (28.0 kN)

**MATeRIALs AND CONSTRUCTION**
- **Steel:**
  - **Bar Material:** Galvanized HR steel
  - **Material:** Stainless steel construction options stand up to harsh environments for maintenance-free longevity.
  - **Minimum Diameter:** 1 x 7 Strand

**DURABLE HIGH STRENGTH STEEL CONSTRUCTION**
High strength solid core steel construction for maximum durability, longevity and added safety.

**CORROSION RESISTANT CONSTRUCTION**
Stainless steel construction options stand up to harsh environments for maintenance-free longevity.

**LUBRICATION**
Dry

**COMPLIANCE**
ASTM A475

**PREFERRED**
Left Regular Lay

**BREAKING STRENGTH**
15,400 LBS minimum

**GENERAL SPECIFICATIONS AND MATERIALS**

**Diameter**
- 3/8”
- 3/4”

**Strand**
- 1 x 7

**Steel**
- Galvanized
- Stainless

**Form**
- Left Regular Lay
- Left Regular Lay

**Material**
- Guide Material: Black Urethane
- Bar Material: Galvanized HR steel
LAD-SAF™ TOP BRACKET
Standard galvanized top bracket with mounting hardware. For systems up to 499 ft. (152m) high, fits up to 1-1/8” (2.85cm) rung diameter, attaches to 3 rungs, built-in energy absorber.

616280

CORROSION RESISTANT CONSTRUCTION
Galvanized construction stands up to harsh environments for maintenance-free longevity.

SHOCK ABSORBING DESIGN
Integrated shock absorbing top bracket reduces forces imposed on ladder structure during a fall. Bracket distributes load over several rungs of ladder.

EASY TO INSTALL
Standard tools install bracket to ladder. No swaging necessary, system carrier clamp (strandvise) provides easy top bracket cable termination with no tools.

I-SAFE™ EQUIPPED
Includes an i-Safe™ radio frequency identification (RFID) to simplify inspection and inventory control and provide records for your fall protection equipment.

GENERAL SPECIFICATIONS:
- Load Requirements; the top bracket is supplied with mounting hardware. For systems up to 499 ft. (152m) high, fits up to 1-1/8” (2.85cm) rung diameter, attaches to 3 rungs, built-in energy absorber.
- Capacity = 1 to 4 user(s) at 310 lbs. (140.6 kg) each.
- Ladder rung strength requirements for:
  - One user on system: 3,375 lbs. (15.0 kN)
  - Two users on system: 4,350 lbs. (19.3 kN)
  - Three users on system: 5,325 lbs. (23.7 kN)
  - Four users on system: 6,300 lbs. (28.0 kN)
- *includes safety factor
- Size = 1-1/2 inch (3.81 cm) x 62 inches (157.48 cm)
- Weight = 8 lbs. (3.63 kg)

MATERIALS AND CONSTRUCTION:
- Bar Material: Galvanized HR steel
- Guide Material: Black Urethane
- Stem Material: Stainless steel
- Hub Material: Stainless steel

LAD-SAF™ BOTTOM BRACKET
Standard galvanized bottom bracket with mounting hardware. Fits up to 1-1/8” (2.85cm) rung diameter, attaches to 2 rungs, built-in tensioning device.

6180090

CORROSION RESISTANT CONSTRUCTION
Galvanized construction stands up to harsh environments for maintenance-free longevity.

INTEGRATED CABLE TENSION SYSTEM
Integrated cable lifeline adjustment system provides a fast, easy and visual indication of a properly tensioned system.

EASY TO INSTALL
Standard tools install guides to ladder. Complete with necessary fastening hardware.

GENERAL SPECIFICATIONS:
- Material: Stainless steel
- Diameter: 1 x 7 strand (1/2"")
- Strength: 15,400 lbs.
- Compliant with: ASTM A475
- Lubrication: Dry
- Breaking Strength: 15,400 lbs.

MATERIALS AND CONSTRUCTION:
- Guide Material: Black Urethane
- Bar Material: Galvanized HR steel

LAD-SAF™ CABLE GUIDE
Non-metallic cable guide with mounting hardware. For systems up to 199 ft. (60.6m), fits up to 1-1/8” (2.85cm) rung diameter. Must have 1 every 25 ft. (7.6m).

6180400

INTERMEDIATE CABLE GUIDE
Prevents cable wear against the ladder and permits the climber to bypass without disconnecting.

NON-METALIC DESIGN
Prevents metal-to-metal contact and abrasion, cable rests in guide slot and does not rub on abrasive objects.

EASY TO INSTALL
Standard tools install guides to ladder. Complete with necessary fastening hardware.

GENERAL SPECIFICATIONS:
- Material: Galvanized or Stainless steel
- Diameter: 1 x 7 strand (1/2"")
- Strength: 15,400 lbs.
- Compliant with: ASTM A475
- Lubrication: Dry
- Breaking Strength: 15,400 lbs.

MATERIALS AND CONSTRUCTION:
- Guide Material: Black Urethane
- Bar Material: Galvanized HR steel

LAD-SAF™ CABLE LIFELINE
Durable high strength steel construction for maximum durability, longevity and added safety.

1 x 7 STRAND TYPE
Options available in galvanized or stainless steel.

CORROSION RESISTANT CONSTRUCTION
Stainless steel construction options stand up to harsh environments for maintenance-free longevity.

GENERAL SPECIFICATIONS AND MATERIALS

<table>
<thead>
<tr>
<th>Diameter</th>
<th>3/8&quot;</th>
<th>3/8&quot;</th>
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<tbody>
<tr>
<td>Strand</td>
<td>1 x 7</td>
<td>1 x 7</td>
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<tr>
<td>Steel</td>
<td>Galvanized</td>
<td>Stainless</td>
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<tr>
<td>Preformed</td>
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<td>Compliance</td>
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<td>Lubrication</td>
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</tr>
<tr>
<td>Breaking Strength</td>
<td>15,400 lbs.</td>
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</tbody>
</table>
Capital Safety is a global company solely dedicated to fall protection and rescue. Our focus is clear. It continually drives us to design and manufacture safer gear that workers want to wear.

Innovation means understanding the industries we serve. We listen to the workers in the field, employ the most engineers, customize solutions, register more new patents and introduce more products. To date, Capital Safety has the best quality and largest breadth of products in the industry.

But we’re more than a product company. We take an innovative approach in bringing our products to the field. We have created international partnerships and a vast network of certified installers and service centers. We offer on-site and in-house training.

And we’re ISO9001:2008 certified for customer service, as well as manufacturing and engineering.

Capital Safety is one of the world’s leading manufacturers in fall protection and rescue equipment, with decades of experience and a legacy of innovation. Look for complete solutions in our extensive line of DBI-SALA® and Protecta® products.