

# 3M™ DBI-SALA® Nano-Lok™ Self Retracting Lifelines

## Technical Data Sheet



### Description

Nano-Lok™ is ergonomically designed for ease-of-use and is ideal for direct connection to most harnesses. The extremely compact and lightweight design is virtually unnoticeable on your back, staying out of the worker's way and making it ideal as a lanyard replacement. Whether your application requires single or twin leg configurations, mounting to an overhead anchor or for connection directly to a harness, there are a variety of models to choose from to suit almost any application. Nano-Lok™ locks quickly—stopping a fall within centimetres—providing more protection at low heights. In addition, tension is always kept on the lifeline, which reduces dragging, snapping and trip falls. Both features are key safety improvements.

### Features

- **Single -leg anchorage connector**
  - Attaches directly to the back of most harnesses - no separate karabiner required
  - Installs to web, leaving dorsal D-ring open for other equipment or rescue
  - Design provides snug fit to worker's back eliminating nuisance "flopping"
  - Refer to the Selection Guide for other anchorage options
- **1.8m 19mm Dynema polyester web lifeline**

The synthetic lifeline reduces overall weight and the retractable design provides freedom of movement, keeps the lifeline out of the worker's way and reduces dragging, snagging and trip falls.
- **Self-locking snap/ aluminium scaffold hook/ Triple action self-locking karabiner on lifeline**

Automatically locks and closes for added safety, and its rugged construction is built to last.
- **Extremely compact, lightweight design**

The device is virtually unnoticeable on your back, stays out of the way and can be easily used as a lanyard replacement.
- **Tough and impact resistant thermoplastic housing**

Compact and durable housing is designed to withstand the demands of challenging jobsites, it's built to last.
- **Swiveling anchorage loop**

Limits lifeline twisting for smoother operation and added worker satisfaction.



- **Quick activating speed sensing brake system**

Stops a falling worker within centimetres, providing more protection at low heights. Designed for smooth consistent operation allowing the user to maintain normal work pace and not be interrupted with constant lock ups.
- **High capacity external energy absorber and impact indicator**

Specialized built-in external absorption system maintains safe fall arrest forces for users and tools up to 140kg and provides a visual alert that the SRL has been involved in a fall.
- **Connected Safety equipped**

A built-in RFID identification tag helps the user record and store information on inspections.
- **Wide variety of configurations available**

There are a wide variety of models to choose from to suit almost any application for complete jobsite versatility and flexibility.

### Standards

Standards EN 360 & AS/NZS 1891.3

## Specifications

### 3M™ DBI-SALA® Nano-Lok™ Self Retracting Lifelines

Capacity	140kg
Brand	DBI-SALA®
Sub Brand	Nano-Lok™
Size	1.8m
D-Ring Locations	Back with extension
Velocity Ship	Yes
Connected Saftey Equipped	Yes
Lifeline Length	1.8m
Approximate Depth	51.7mm
Working Length	1.8m -1.95m, depending on hook/ anchorage configuration
Maximum Arresting Force/Distance	Maximum Arresting Force= 6kN Maximum Arresting Distance= 0.6m
Compatibility	Nano-Lok™ SRL's are compatible to use with Capital Safety approved components and systems, or as recommended by a competent person.
Country of Origin	USA
Instructions/ Conditions of Use	Reading user Instruction Manual prior to use is essential.

## Twin leg anchorage connector

- Attach two SRLs directly to back of most harnesses
- Installs to web or EZ link connector, leaves dorsal D-ring open for other equipment or rescue
- Design provides snug fit to worker's back eliminating nuisance "flopping"
- Interchangeable SRLs allow for added versatility & replacement options
- Allows user to "leap-frog" while moving from one location to another for added mobility and 100% fall protection.

## 100% Tie-off configuration

- Provides continuous fall protection & added mobility when moving from one location to another
- Replaces twin-leg lanyard & improves safety

NOTE: Optional twin leg fixed anchorage connector available for fixed D-ring harnesses. (part numbers available separately)

## Maintenance/Cleaning

Cleaning procedures for the SRL are as follows:

- Periodically clean the exterior of the SRL using water and a mild soap solution. Position the SRL so excess water can drain out. Clean labels as required.
- Clean the lifeline with water and mild soap solution. Rinse thoroughly air dry. Do not force dry with heat. The lifeline should be dry before allowing it to retract into the housing. An excessive buildup of dirt, paint, etc., may prevent the lifeline from fully retracting back into the housing causing a potential free fall hazard.

## Service

SRLs are not repairable. If the SRL has been subject to fall force or inspection reveals an unsafe or defective condition, remove the SRL from service and discard.

## Storage/Transport

Store and transport SRLs in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect the SRL after any period of extended storage.

## Disposal

Dispose of the SRL if it has been subject to fall arrest forces or inspection reveals an unsafe or defective condition. Before disposing of the SRL, cut the lifeline in half or otherwise disable the SRL to eliminate the possibility of inadvertent reuse.

## Warning

To reduce the risks associated with working with an SRL which, if not avoided, could result in serious injury or death:

- Before each use, inspect the SRL and check for proper locking and retraction.
- If inspection reveals an unsafe or defective condition, remove the device from service and repair or replace according to the User Instructions.
- If the SRL has been subjected to fall arrest or impact force, immediately remove the SRL from service and label the device 'UNUSABLE'.
- Ensure the lifeline is kept free from any and all obstructions including, but not limited to; entanglement with moving machinery or equipment (e.g., the top drive of oil rigs), other workers, yourself, surrounding objects, or impact from overhead objects that could fall onto the lifeline or the worker.
- Never allow slack in the lifeline. Do not tie or knot the lifeline.
- Attach the unused leg(s) of the Harness Mounted SRL to the parking attachment(s) of the harness if equipped.
- Do not use in applications that have an obstructed fall path. Working on slowly shifting material, such as sand or grain, or within confined or cramped spaces, may not allow the worker to reach sufficient speed to cause the SRL to lock. A clear path is required to assure positive locking of the SRL.
- Avoid sudden or quick movements during normal work operation. This may cause the device to lock up.
- Ensure that fall protection systems/subsystems assembled from components made by different manufacturers are compatible and meet
- The requirements of applicable standards, including the ANSI Z359 , AS/NZS 1891.4 or other applicable fall protection codes, standards, or requirements. Always consult a Competent and/or Qualified Person before using these systems.

## Ordering Information

3M Code	Model #	Physical Weight	Product Style	Lifeline Type	Mounting Type	Locking Mechanism	Gate Opening
70007455226	3101330	1.00kg	Single Lifeline	Web	Direct to Harness Back	Double action	19mm
70007444188	3101331	1.30kg	Single Lifeline	Web	Direct to Harness Back	Double action	59mm
70007444196	3101332	1.24kg	Single Lifeline	Web		Double action	19mm
70007444204	3101333	1.57kg	Single Lifeline	Web	Direct to Harness Back	Double action	65mm
70007943502	3101335	1.11kg	Single Lifeline	Web	Direct to Harness Back	Triple action	20mm
70007444212	3101336	1.20kg	Single Lifeline	Web	Cab-Mount	Double action	19mm
70007455234	3101339	1.18kg	Single Lifeline	Web	Block to Anchor Point	Triple action	20mm
70007931119	3101340	1.19kg	Single Lifeline	Web	Block to Anchor Point	Triple action	20mm
70007937330	3101341	1.54kg	Single Lifeline	Web	Block to Anchor Point	Triple action	20mm
70007931986	3101342	1.64kg	Single Lifeline	Web	Overhead Anchor Point	Triple action	20mm
70007455242	3101345	2.80kg	Twin Lifelines (100% tie-off)	Web	Direct to Harness Back	Double action	65mm
70007444246	3101346	2.50kg	Twin Lifelines (100% tie-off)	Web	Direct to Harness Back	Double action	59mm
70007456174	3101615	1.40kg	Single Lifeline	Web	Direct to Harness Back	Double action	19mm
70007446944	3101644	1.50kg	Single Lifeline	Web	Direct to Harness Back	Double action	57mm
70007445672	3101521	1.60kg	Single Lifeline	Fire Resistant Web	Overhead Anchor Point	Double action	65mm
70007445680	3101523	1.60kg	Single Lifeline	Fire Resistant Web	Overhead Anchor Point	Double action	19mm
70007455838	3101524	3.10kg	Single Lifeline	Fire Resistant Web	Overhead Anchor Point	Double action	65mm

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