

3M™ Fall Protection  
 3M™ ReLoad™ Self-Retracting Lanyards



ReThink ReLoad™



# Retractable Lanyards for Any Condition

## 3M™ Sealed ReLoad™

Ideal for harsh conditions typically encountered in steel mills, wind turbines, or on oil rigs and other harsh environment applications.



## 3M™ ReLoad™ REC Series

High-impact modified nylon housing for durability. Ideal for industrial and general construction, steel mills, warehousing and loading bays.



## 3M™ ReLoad™ REW Series

Great for situations where individual portability and mobility is key. Ideal for general-purpose use in harsh environments and in environments that may be sensitive to contact with traditional steel cable lanyards, such as the aerospace industry.



### FEATURES AT A GLANCE

	LIFELINE MATERIAL	LENGTHS	WEIGHT OF UNIT	HOUSING MATERIAL
SEALED RELOAD	Stainless Steel	30, 50, 85, 130 ft.	21.4–62 lbs.	Aluminum/Stainless Steel
RELOAD REC MODELS	Galvanized or Stainless Steel	23, 30, 40, 50 ft.	11.4–16.6 lbs.	Impact modified nylon
RELOAD REW MODELS	Web	7, 12, 23 ft.	3.4–9.6 lbs.	Aluminum or Impact modified nylon

# Why ReThink ReLoad?

RELOAD™

PREMIUM SELF-RETRACTING LANYARD |

## 3M™ RELOAD™ SELF-RETRACTING LANYARDS FEATURES



### 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

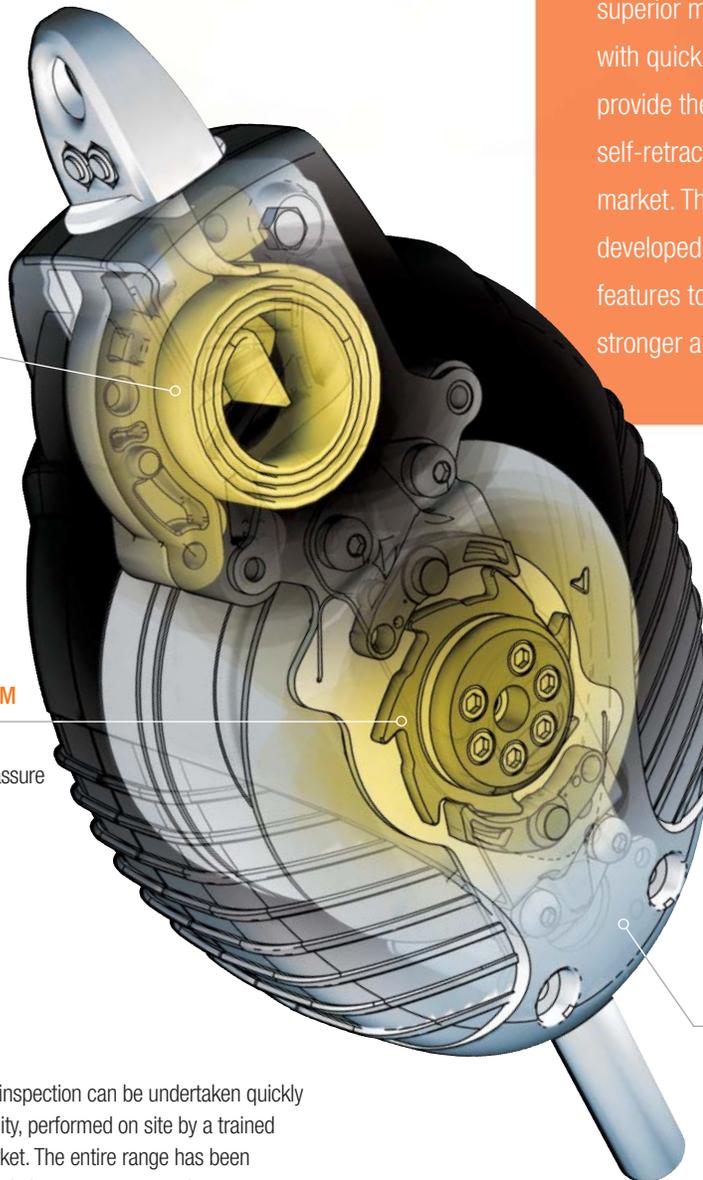
### 100% RELIABLE LOCKING MECHANISM

- 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 wet lubrication to attract dirt and debris
- Stainless steel components unaffected by water, contaminants, temperature and time

### COMPLETELY FIELD SERVICEABLE

Wherever 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



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.

### MEETS GLOBAL INDUSTRY STANDARDS

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

### IMPACT RESISTANT CASING

The 3M™ ReLoad™ self-retracting lanyard range is encased in an impact modified nylon housing, which is designed to help protect the chassis inside. This purely acts as armor – no critical components form part of the casing, meaning that even in the event of severe damage, it can be easily replaced.

# Smart. Strong. Safe.

## 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.



### 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 ingress protection (IP) rating of 69K, which is the highest rating on the ingress protection scale.

### 100% FULL CONTACT LOCKING MECHANISM

The full contact pawl locking mechanism provides 100% reliable locking pawls that won't freeze, hang up or corrode. The advanced pawl technology allows a user to both hear and feel the mechanism working and therefore reassures them the system is in good working order.

### ACCELERATED CORROSION TESTING

Accelerated corrosion testing has been performed that simulates real life corrosion in a controlled environment for 2,000 hours. This is a recognized representative period of 10 years "real life" use of the Sealed ReLoad™ SRL.

### 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.

### MEETS OR EXCEEDS GLOBAL INDUSTRY STANDARDS

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



## TESTING

The 3M Sealed SRL was subjected to 2,000 hours of salt spray exposure which far exceeds any test requirement by current environmental standards. The test demonstrates the durability of the 3M Sealed SRL. A sample of the 3M Sealed SRL was independently tested for 2,000 hours corrosion resistance by SATRA Technology.

## TEST CONDITIONS

- Corrosion test in accordance with ISO 9227:1990 – Neutral Salt Spray
- Temperature: 35°C (95°F)
- Fallout rate: approximately 1.2 ml/hr (0.07 cubic in/hr) (average over total exposure time)
- pH of test solution: approximately 6.7 (average over total exposure time)
- Sample was removed and examined for damage periodically throughout exposure and after complete exposure time
- Total exposure time: 2,000 hours

EN 360:2002 Clause/Test	EN 360:2002 Requirement	Result/Comment	Pass/Fail
4.7 Corrosion Resistance EN 364-1992 Clause 5.13.	No corrosion to be evident that could affect the function of the device (white scaling or tarnishing is acceptable).	Evidence of light white scaling present on external surfaces. Evidence of slight red discoloration around attachment bolts only. No visual evidence of rust present.	PASS



**Inside top of energy absorber after 2,000 hours of salt spray exposure**



**Main rewind spring cover after 2,000 hours of salt spray exposure**



**Inside energy absorber after 2,000 hours of salt spray exposure**

Note: EN 360:2002 Clause 4.7 requires that the device be subject to 24 hours neutral salt spray exposure. However, to demonstrate the robustness of the product, the exposure time was increased to 2,000 hours, after which the device was found to fulfill the requirements of Clause 4.7.

Tested operational temperature range: -30°C to +54°C (-22°F to +129°F).

Further testing conducted: Cyclic testing – SRL cable fully extended and retracted 20,000 times (with component inspection of pawls & tooth disc for wear) ensuring consistent performance from first to last test.

## 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™ Retractable Lanyard reduces costs incurred during product maintenance, including labor, shipping and product downtime. 3M can provide training that enables personnel to inspect and maintain Sealed ReLoad™ units on site. Call your 3M Representative for more information.



\*Must be repaired by a certified repair person.

# Value That Quickly Adds Up...

## Cost of Ownership Comparison

	Comparable Competitor 30 ft. SRL	3M™ ReLoad™ REC-30
Inventory Size (Fleet)	100	85
Initial List Price (per Unit)**	\$940	\$650
<b>Total Upfront Cost Year 1</b>	<b>\$94,000</b>	<b>\$55,250</b>
<b>Average Annual Service Cost (per Unit)***</b>	<b>\$286</b>	<b>\$101</b>
Cost of Service Year 2	\$28,600	\$8,585
Cost of Service Year 3	\$28,600	\$8,585
<b>Total Service Cost (Fleet)</b>	<b>\$52,700</b>	<b>\$17,170</b>

15% Fleet Reduction\*

Lifetime cost of ownership **\$151,200** **\$72,420**

– PLUS –

3–6 week block downtime  
shipping costs to service center  
extra hassle

*Let our cost calculator help you determine your average cost per SRL based on your business specific factors. Contact a 3M Fall Protection Specialist today!*

\*Refers to lower quantity of SRLs required to keep in stock as an inventory buffer while fielded SRLs are taken out of service for repairs/certifications and replaced with buffer stock. \*\*Competitor SRL pricing based on estimated average market pricing, U.S. market. 3M™ ReLoad™ pricing based on 3M suggested list price, U.S. market, 2013. \*\*\*Competitor SRL servicing cost based on estimated average national pricing for general servicing, U.S. market. 3M™ ReLoad™ servicing assumes parts are required and purchased from 3M distributor. Based on ANSI Z359.14-2012 moderate to heavy usage and service requirements. Above is based on the user/customer field servicing the 3M™ ReLoad and completing 3M's authorized 3M™ ReLoad™ repair training. Based on three years of ownership.

# 3M Self-Retracting Lanyard Specs

## RELOAD™



PRODUCT NUMBER	DESCRIPTION	LENGTH	WEIGHT OF UNIT	HOUSING HARDWARE	STANDARDS
REW-7	ReLoad SRL features aluminum housing, web lifeline with snap hook. 310 lb. weight rating.	7 ft.	3.4 lbs.	Carabiner	ANSI Z359.14-2012, CSA Z259.2.2-98
DLREW-7	Dual leg ReLoad SRL features aluminum housing, web lifeline with snap hooks. 310 lb. weight rating.	7 ft.	6.5 lbs.	DL-7 Dual Leg Retractable Adapter	
REW-12	ReLoad SRL features high-impact modified nylon housing, web lifeline with snap hook. 310 lb. weight rating.	12 ft.	5.3 lbs.	Swivel Top Carabiner	
REW-23	ReLoad SRL features high-impact modified nylon housing, web lifeline with snap hook. 310 lb. weight rating.	23 ft.	9.6 lbs.	Swivel Top Carabiner	
REC-23	ReLoad SRL features high-impact modified nylon housing, galvanized cable lifeline with indicating steel snap hook. 400 lb. weight rating.	23 ft.	11.5 lbs.	Carabiner	
REC-30		30 ft.	13.3 lbs.	Carabiner	
REC-40		40 ft.	16.0 lbs.	Carabiner	
REC-50		50 ft.	16.6 lbs.	Carabiner	
REC-23-SS		ReLoad SRL features high-impact modified nylon housing, Grade 316 stainless steel cable lifeline with indicating stainless steel snap hook. 400 lb. weight rating.	23 ft.	11.4 lbs.	
REC-30-SS	30 ft.		13.2 lbs.	Carabiner	
REC-40-SS	40 ft.		15.8 lbs.	Carabiner	
REC-50-SS	50 ft.		16.4 lbs.	Carabiner	

## SEALED RELOAD™



PRODUCT NUMBER	DESCRIPTION	LENGTH	WEIGHT OF UNIT	HOUSING HARDWARE	STANDARDS
SREC-30-SS	Sealed ReLoad SRL features aluminum housing, Grade 316 stainless steel lifeline with indicating stainless steel snap hook, 310 lb. weight rating.	30 ft.	21.4 lbs.	Carabiner 0210-07 available to order	ANSI Z359.14-2012, CSA Z259.2.2-98
SREC-50-SS		50 ft.	27.7 lbs.	Carabiner 0210-07 available to order	
SREC-85-SS	Sealed ReLoad SRL features aluminum, stainless steel housing, Grade 316 stainless steel lifeline with indicating stainless steel snap hook, 310 lb. weight rating.	85 ft.	48.3 lbs.	Carabiner 0210-07 available to order	
SREC-130-SS		130 ft.	62 lbs.	Carabiner 0210-07 available to order	



# Training and Support

Falls from height continue to be a leading cause of workplace fatalities and injuries in the United States\*. Employers are responsible for ensuring that all employees are properly trained, in accordance with the requirements of local legislation, in the safe use of the fall protection system and its components. 3M™ Fall Protection is proud to offer a wide range of training classes and tools to help promote safety on every worksite.

## TRAINING AND SUPPORT

In accordance with the requirements of OSHA, employers are responsible for ensuring that all employees are properly trained to safely use the fall protection system and its components. At 3M, we offer training classes and tools to help promote safety on every worksite. For registration and course information requests, email [3MFallProtectionTraining@mmm.com](mailto: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 enhance safety awareness for large numbers of workers – and to feel confident that crucial information has been absorbed.

\* U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with state, New York City, District of Columbia and federal agencies. *Census of Fatal Occupational Injuries*, September 19, 2012.

## WARNING

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.



Personal Safety Division  
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## For More Information

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

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