

User Instruction Manual

Rigid Lifelines® Defy™ Self-Retracting Lanyards



Part Numbers:

RL-PCGS-10FT; RL-PCWB-11FT;
RL-PCWB-6FT; RL-PS-20FT;
RL-PS-30FT; RL-PS-50FT;
RL-PW-20FT; RL-PW-40FT

ISO 9001: 2008 Registered
Manual 103-0059



General Safety Information

Under Penalty of Law

- This *User Instruction Manual* is not to be removed except by the user of this equipment.
- Current *User Instruction Manuals* must always be available to the user.
- Read and understand these instructions before using equipment.
- ***Do not throw away these instructions.***



WARNING

Misuse or failure to follow warnings and instructions may result in serious personal injury or death.

Users must read and understand the *User Instruction Manual* provided with the product and be properly trained by their employer prior to use per OSHA 29 CFR 1910.66 and 1926.503 or applicable local standards.

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest.

For instructions about proper use, refer to supervisor, *User Instruction Manual*, or call Rigid Lifelines at: 844-467-4443.

Purpose

Rigid Lifelines® Defy™ Self-Retracting Lanyards are designed to be used as part of a personal fall arrest system to help limit the forces associated with fall arrest in the event of a fall.

Fall Arrest System Components

System Components Overview

A complete fall arrest system consists of the following components: Anchorage, Body Support, and Connecting Devices. **Note: For continuous protection, more than one system may be needed.**

Anchorage

OSHA 29 CFR 1926.502 states that an anchorage, “Shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds (22.2 kN) per employee attached, or shall be designed, installed, and used as follows: as part of a complete personal fall arrest system which maintains a safety factor of at least two; and under the supervision of a qualified person.”

Body Support

A body support is the component of a personal fall arrest system that is worn on or around the body. Per OSHA 29 CFR 1926.502 (effective January 1, 1998), body belts are not acceptable* as part of a personal fall arrest system. **Full body harnesses must be used for all fall arrest systems.**

* **Note:** The use of a body belt is acceptable in a positioning device system.

Connecting Devices

A connecting device is the link between the body support and anchorage. Connecting devices will vary depending on the application.

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Instructions for Use

- n Self-Retracting Lanyards are designed for a single user.
- n Users must perform a locking test on Self-Retracting Lanyards before each use by pulling smoothly on the lanyard, then pulling sharply on the lanyard to engage the locking mechanism. Remove from service if the locking mechanism does not lock.
- n Striking objects horizontally due to the pendulum effect of a swing fall may cause serious injury or death.
- n Never attach the unused leg of the Dual Leg Retractable back to the harness at any location other than an approved lanyard storage keeper.
- n Never allow slack in the cable of a Self-Retracting Lanyard while in rescue mode.
- n After a fall occurs, or if any part of the load indicator warning is showing, the Self-Retracting Lanyard must be immediately removed from service for authorized repairs or disposal.
- n Alterations or misuse may result in serious personal injury or death. If you have questions on the use, care, or suitability of this equipment for your application, contact Rigid Lifelines at (844) 467-4443 for more information.
- n Failure to follow all instructions and limitations on the use of this equipment may result in serious personal injury or death.
- n Before using a personal fall arrest system, employees shall be trained in accordance with the requirements of OSHA 29 CFR 1910.66 in the safe use of the system and its components.
- n Prior to each use, inspect all personal fall arrest system equipment for wear, damage, and other deterioration. Defective components must be removed from service **immediately** in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.
- n Thoroughly evaluate and plan all elements of your fall protection system(s) before using your equipment. Make sure that your system is appropriate for your needs and facility. Also be sure to calculate fall clearance and swing fall clearance.
- n Users must have a rescue plan and the means to implement it. This plan must provide prompt employee rescue or assure that employees have the ability to rescue themselves in the event of a fall.
- n Store this equipment in a cool, dry, and clean environment that is out of direct sunlight when not in use.
- n After a fall occurs, this equipment must be removed from service and destroyed immediately.

Limitations For Use

- n Defy™ Self-Retracting Lanyards (including those with rescue capability) are designed for a single user with a capacity up to 310 lb. (141 kg) or 400 lb. (181 kg) including clothing, tools, etc. See individual product label for capacity ratings.
- n Defy Self-Retracting Lanyards shall only be used as part of a personal fall arrest system that limits the maximum free fall distance to 2 feet (0.6 m).
- n Defy Self-Retracting Lanyards must be used with a full body harness.
- n Do not allow the line constituent to retract into the unit in an uncontrolled manner.
- n Not all fall protection components are rated for the same user weight capacity. Users must be within each component's capacity range.
- n Never use combinations of components or subsystems that may affect or interfere with the safe function of each other. If you do not know if combinations of components or subsystems may affect the safety function of each other, contact Rigid Lifelines at 844-467-4443.
- n This equipment is designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
- n Do not expose this equipment to chemicals or harsh solutions that may have a harmful effect. Contact Rigid Lifelines with any questions.
- n Use caution when working with this product near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
- n Minors, pregnant women, and anyone with a history of back and/or neck problems should not use this equipment.
- n Do not use or install equipment without proper training from a "Competent Person" as defined by OSHA 29 CFR 1926.32(f).
- n Only Rigid Lifelines, or entities authorized in writing by Rigid Lifelines, shall make repairs or alterations to the equipment.



WARNING

If a Self-Retracting Lanyard is used with a cross-arm anchorage connector, other anchorage extension, horizontal lifeline, or extended D-ring, the additional length provided by these components must be taken into consideration during the clearance calculation process.

Anchorage Requirements

All anchorages to which the Personal Shock Absorbers and Shock Absorbing Lanyards attach must meet the requirements of OSHA 29 CFR 1910.66 and ANSI Z359.1-2007. OSHA states:

Anchorage to which personal fall arrest equipment is attached shall be capable of supporting at least 5,000 pounds (22.2 kilonewtons) per employee attached, or shall be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, under the supervision of a qualified person.

ANSI Z359.1-2007 states that anchorages in a personal fall arrest system must have strength capable of sustaining static loads applied in all directions permitted by the system of at least:

- (a) Two times the maximum arrest force permitted on the system with certification, or
- (b) 5,000 lb. (22.2 kN) in the absence of certification

When more than one personal fall arrest system is attached to the anchorage, the strength in (a) and (b) must be multiplied by the number of personal fall arrest systems attached to the anchorage.

Anchorage used in controlled descent and rescue systems must be capable of supporting loads of 3,100 ft-lb. (13.8 kN) for non-certified anchorages or a 5:1 safety factor for certified anchorages per ANSI Z359.4-2007.

Anchorage used in restraint systems must be capable of supporting loads of 1,000 ft-lb. (4.5 kN) for non-certified anchorages or two times the foreseeable force for certified anchorages per ANSI Z359.2-2007.

Anchorage used in work positioning systems must be capable of supporting loads of 3,000 ft-lb. (13.3 kN) for non-certified anchorages or two times the foreseeable force for certified anchorages per ANSI Z359.2-2007.

Anchorage should be located as vertically as possible above the user's head and be positioned as not to exceed the maximum allowable free fall for the system.

Anchorage Connectors

Anchorage connectors are components that couple the personal fall arrest system to the anchorage. In accordance with ANSI Z359.1-2007, the anchorage connector must be capable of withstanding (without breaking) a 5,000 lb. (22.2 kN) load, and able to withstand a 3,600 lb. (16 kN) load without cracking, or permanent deformation visible to the unaided eye.

The strength of all anchorage connectors must be multiplied by the maximum number of personal fall arrest systems attached.

A mobile anchorage connector should be used to provide lateral mobility and help prevent the possibility of a swing fall.



WARNING

If a Self-Retracting Lanyard is used with a cross-arm anchorage connector, other anchorage extension, horizontal lifeline, or extended D-ring, the additional length provided by these components must be taken into consideration during the clearance calculation process.

Connection Compatibility Limitations

All Rigid Lifelines® equipment must be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snap hooks from being engaged to certain objects unless two requirements are met:

1. It must be a locking type snap hook.
2. It must be “designed for” making such a connection.
 - a. “Designed for” means that the manufacturer of the snap hook specifically created the snap hook to be used to connect to the equipment in question.

The following conditions can result in rollout* when a non-locking snap hook is used. Avoid the following connections:

- Direct connection of a snap hook to horizontal lifeline.
- Two (or more) snap hooks connected to one D-ring.
- Two snap hooks connected to each other.
- A snap hook connected back on its integral lanyard.
- A snap hook connected to a webbing loop or webbing lanyard.

- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snap hook dimensions that would allow the snap hook keeper to be depressed by a turning motion of the snap hook.



* Rollout: A process by which a snap hook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.0-2007)

Snap Hooks and Carabiners

Snap hooks and carabiners used on Defy™ Self-Retracting Lanyards marked with the ANSI Z359.1-07 or ANSI Z359.12-09 standard, are self-locking with minimal tensile break strength of 5,000 lbs and a 3,600 lbs gate rating.

Defy Self-Retracting Lanyards marked with the ANSI Z359.1-1999 standard, incorporate self-locking snap hooks and carabiners with minimal tensile break strength of 5,000 lbs., a minimum gate rating of 220 lbs., and a minimum side load gate rating of 350 lbs.

Fall Clearance/Clear Fall Charts

Clearance Requirements

These illustrations are an example of how to calculate fall clearance when using a self-retracting lanyard or a shock absorbing lanyard.

Image 1 shows a self-retracting lanyard anchored overhead with the other end connected to the dorsal D-ring of a full body harness. When positioning a self-retracting lanyard, include the following distances in your calculations:

Using the Rigid Lifelines® Defy™ Self-Retracting Lanyard will require a total fall clearance of approximately 7.5 feet (2.3 meters) as measured from the working level to the nearest obstruction below. The total fall clearance combines the sum of the maximum allowable fall arrest distance of 54 inches or 4.5 feet (1.4 meters) and the safety factor of 3 feet (0.9 meters).

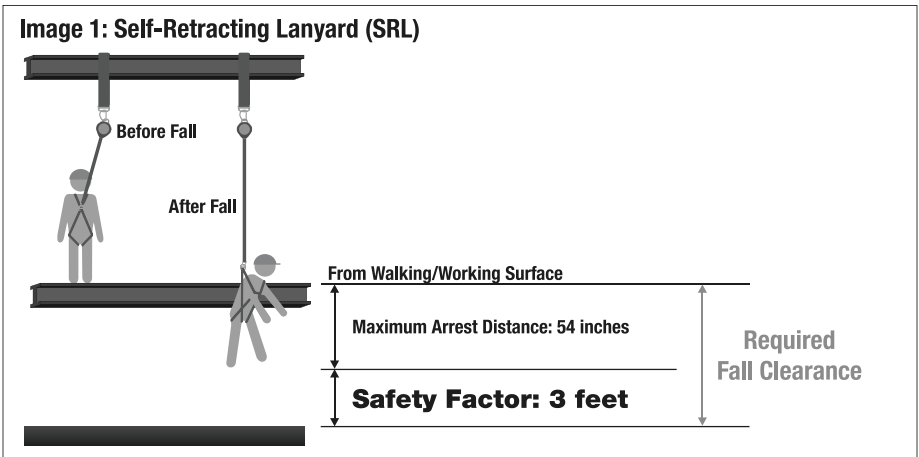
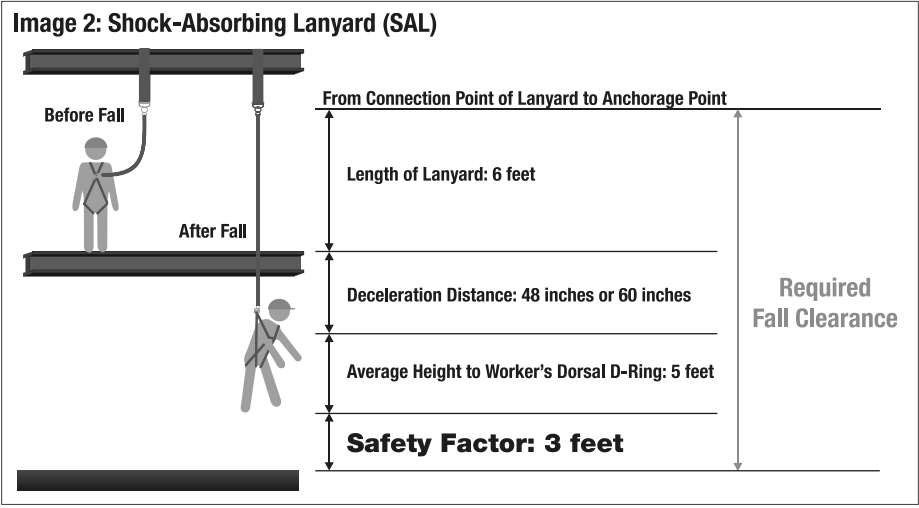


Image 2 shows a shock absorbing lanyard anchored overhead with the other end connected to the dorsal D-ring of a full body harness. Note that the length of your shock absorbing lanyard in relation to where it is attached is directly related to the amount of fall clearance that you will need. When using a shock absorbing lanyard, include the following distances in your calculations:

Using the 6-Foot Connex™ Shock Absorbing Lanyard will require a total fall clearance of approximately 18 feet (5.5 meters) as measured from the anchorage point of lanyard to the nearest obstruction below. The total fall clearance combines the sum of the length of the lanyard, the maximum elongation of the lanyard (4 feet or 1.2 meters), the average distance between the worker's dorsal D-ring (5 feet or 1.5 meters), and the safety factor (3 feet or 0.9 meters).

Using an extended free fall (12 foot) Connex Shock Absorbing Lanyard will require a total fall clearance of approximately 20 feet (6.1 meters) when anchored at foot level and measured from the anchorage point of lanyard to the nearest obstruction below. The total fall clearance combines the sum of the length of the lanyard, free fall distance, the maximum elongation of the lanyard (5 feet or 1.5 meters), the average distance between the worker's dorsal D-ring, (5 feet or 1.5 meters), and the safety factor (3 feet or 0.9 meters).



Swing Fall

To minimize the possibility of a swing fall, work as directly under the anchorage connector as possible. Striking objects horizontally, due to the pendulum effect, may cause serious injury. Swing falls also increase the vertical fall distance of a worker, compared to a fall directly below the anchorage connector. Swing falls may be reduced by using overhead anchorage connectors that move with the worker.



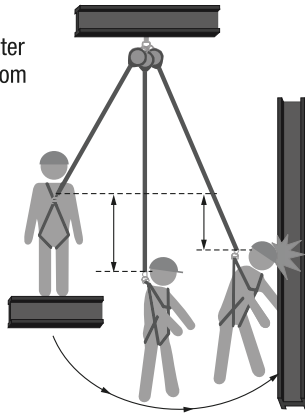
WARNING

Workers accessing areas greater than 30° off-plumb from overhead anchorage are at a higher risk for severe injury.

Striking objects horizontally due to the pendulum effect of a swing fall may cause serious injury or death.

Swing Fall

WARNING: Workers accessing areas greater than 30° off plumb from overhead anchorage are at a higher risk for severe injury.



Operation

Before Each Use

Users of personal fall arrest systems must have a rescue plan in place if the users cannot rescue themselves or carry out the rescue.

- Defy™ Self-Retracting Lanyards must be inspected prior to each use for wear, damage, and other deterioration.
- Check the operation by pulling smoothly on the lanyard, then pull sharply on the lanyard to engage the locking mechanism.
- All snap hooks and carabiners on the product must be able to self-close and lock.
- All webbing must be inspected for tears, cuts, fraying, abrasion, discoloration, or other signs of wear and damage.
- Sewn terminations should be secure, complete, and not visibly damaged.
- Cable must be inspected for kinks, broken strands, corrosion, abrasion, or other signs of wear and damage.
- Swaged terminations should be secure with the thimble tight and not visibly damaged.
- Load indicator must not be deployed.
- Damaged and other deteriorated and defective components must be immediately removed from service, in accordance with their requirements of OSHA 29 CFR 1910.66 and 1926.502.

Connection

Overhead Anchorage

Attach the housing connector of the Defy™ Self-Retracting Lanyard to the anchorage or anchorage connector. The opposite end is connected to the dorsal D-ring of the full body harness. Never attach an additional shock absorbing lanyard, self-retracting lanyard, or similar component to lengthen the lifeline.



WARNING

Never use combinations of components or subsystems that may affect or interfere with the safe function of each other. If you do not know if combinations of components or subsystems may affect the safety function of each other, contact Rigid Lifelines at 844-467-4443.

Housing to Harness

Lighter weight self-retracting lanyards (15 feet or less) may attach the housing connector directly to the dorsal D-ring of the full body harness. Heavier weight self-retracting lanyards (greater than 15 feet) are not recommended for this application. The opposite end is connected to the anchorage or anchorage connector.

Dual Leg Retractable to Full Body Harness

Attach the dual leg yoke directly to the dorsal D-Ring of the full body harness using supplied carabiner. Attach one leg of the dual leg retractable to the anchorage or anchorage connector, and the unused leg to an approved lanyard storage keeper on the harness.



WARNING

Never attach the unused leg of the dual leg retractable back to the harness at any location other than an approved lanyard storage keeper.

When using the dual leg retractable to move between fall protection systems, attach the unused leg to the new location before disconnecting the first leg. Connection of both legs to separate anchorages or anchorage connectors while transitioning between systems is acceptable.

Performance

Dynamic

Defy™ Self-Retracting Lanyards when dynamically tested in accordance with the requirements of the ANSI Z359.14 standard have an average arrest force of 900 pounds (4 kilonewtons) and a maximum elongation of 54 inches (137 centimeters).

Self-Retracting Device – Class B

Materials

Hardware

Snap hooks and carabiners on the Defy™ Self-Retracting Lanyards marked with the ANSI Z359.1-07 or ANSI Z359.12-09 standard are self-locking with minimal tensile break strength of 5,000 lb. and a 3,600 lb. gate rating.

Defy Self-Retracting Lanyards with snap hooks and carabiners marked to the ANSI Z359.1-1999 standard incorporate self-locking snap hooks and carabiners with minimal tensile break strength of 5,000 lb., a minimum gate rating of 220 lb., and a minimum side load gate rating of 350 lb.

Line Constituents

The PCGS and PS models of the Rigid Lifelines® Defy Self-Retracting Lanyards incorporate 3/16 inch (4.8 millimeter) 7x19 galvanized cable.

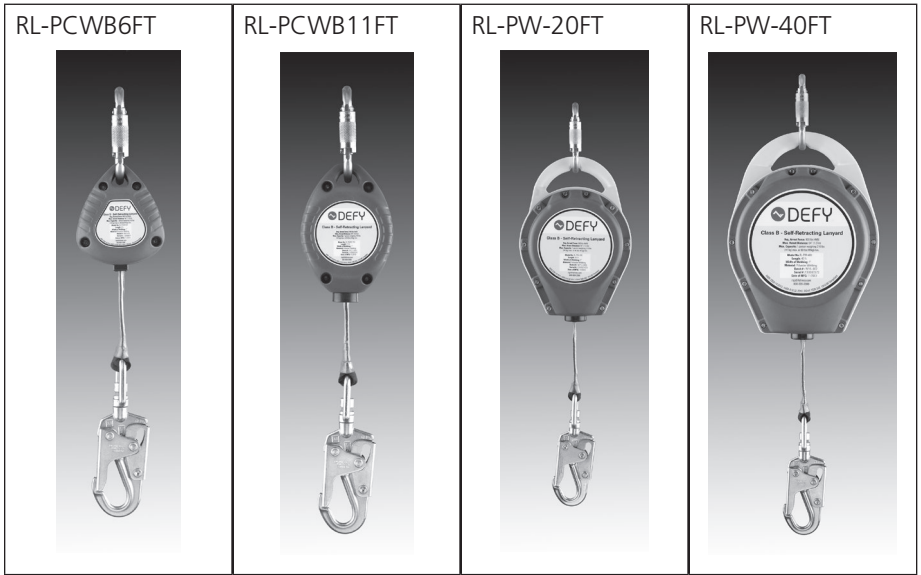
The PCWB and PW models of the Rigid Lifelines Defy Self-Retracting Lanyards incorporate a 3/32 inch (2.4 millimeter) by 1 inch (25 millimeter) polyester webbing.

Housing

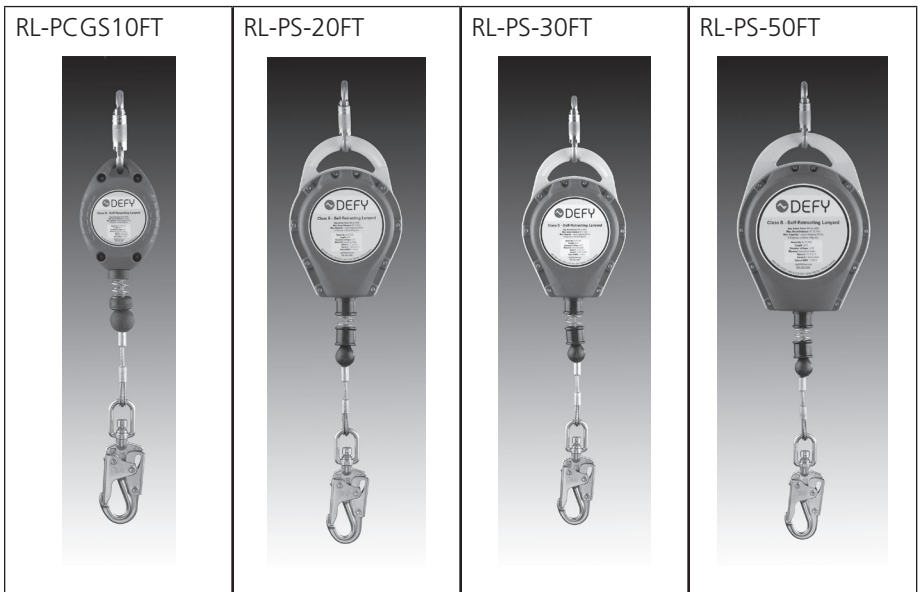
The PCGS, PS, PCWB and PW models of the Rigid Lifelines Defy Self-Retracting Lanyards utilize a polymer housing.

Models And Part Numbers

Self-Retracting Lanyards – Web Units – 310 lb. capacity



Self-Retracting Lanyards – Cable Units – 310 lb. capacity



Training

Employers are responsible for providing training to any employee who may be exposed to fall hazards. Training will enable an employee to recognize and reduce fall hazards. Training must be conducted by a Competent or Qualified Person. Trainer and trainees must not be exposed to fall hazards during the training course.

Inspection

Frequency

All Defy™ Self-Retracting Lanyards must be inspected prior to each use. Annual inspections must be performed by an OSHA-defined “Competent Person” other than the user. Local, state, governmental, and jurisdictional agencies may require the user to conduct more frequent or mandatory inspections.

Criteria



WARNING

If inspection reveals any defect, inadequate maintenance, or unsafe condition, immediately remove from service for authorized repairs or disposal.

Any equipment that has been subjected to the forces of arresting a fall or has a deployed load indicator (see Figure 1) must be immediately removed from service for authorized repairs or disposal. See product label for specific load indicator warning.

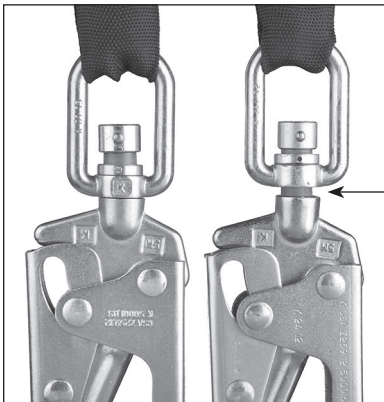


Figure 1:
On left – intact load indicator.
On right – deployed load indicator.

All components of the Defy™ Self-Retracting Lanyards must be inspected. Housing or casing must be free from cracks, distortion or any other damage. Check the operation of the unit by pulling smoothly on the lanyard, then pull sharply on the lanyard to engage the locking mechanism. Unit must not slip when locked. (See Figure 2.)

All markings must be legible and attached to the product.

All snap hooks and carabiners on product must be able to self-close and lock. All hardware must be free of cracks, sharp edges, deformation, corrosion, or any evidence of defect.

The lanyard must fully extend and retract smoothly without any slack being created upon retraction. (See Figure 3.)



Figure 2

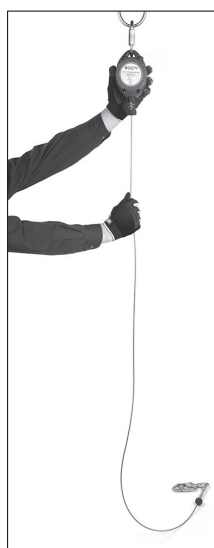


Figure 3

To Inspect Webbing and Rope:

- Bend a portion of the webbing 6-8 inches into an upside-down 'U' shape.
- Continue inspection along all webbing and rope. Look for tears, cuts, fraying, abrasion, discoloration, burns, holes, mold, pulled or broken stitches, or other signs of wear and damage.
- Sewn terminations must be secure, complete, and not visibly damaged.
- Cable must be inspected for kinks, broken strands, corrosion, abrasion, or other signs of wear and damage.
- Swaged terminations must be secure with the thimble tight and not visibly damaged.

Cleaning, Maintenance, and Storage



CAUTION

Wear proper personal protective equipment (PPE) when performing inspection, cleaning, and maintenance procedures. Safety glasses and gloves are recommended.

Cleaning

The Defy™ Self-Retracting Lanyards can be wiped down with a mild detergent and clean water solution and then rinsed with a dampened, clean cloth to remove detergent. The hardware can also be wiped down to remove grease or dirt with a clean, dry cloth.

Maintenance

Defy™ Self-Retracting Lanyards requiring maintenance must be tagged “unusable” and removed from service.



WARNING

Only Rigid Lifelines, or persons or entities authorized in writing by Rigid Lifelines, shall make repairs or alterations to the equipment.

Cleaning and maintenance may be performed by the user.

Snap hooks and carabiners may require periodic lubrication. Use a dry lubricant that has proper resistance to temperature extremes, moisture, and corrosion. Do not over-lubricate. Be certain that lubricant, oil, grease, or other contaminants do not get on the lanyard.

Storage

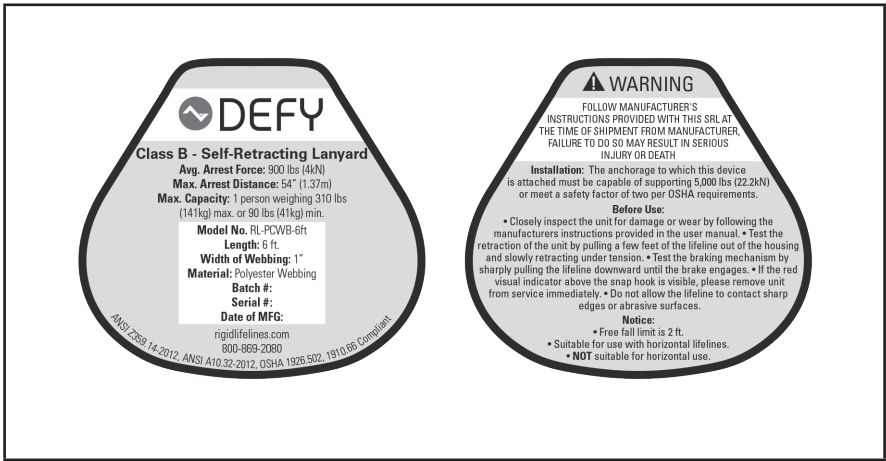
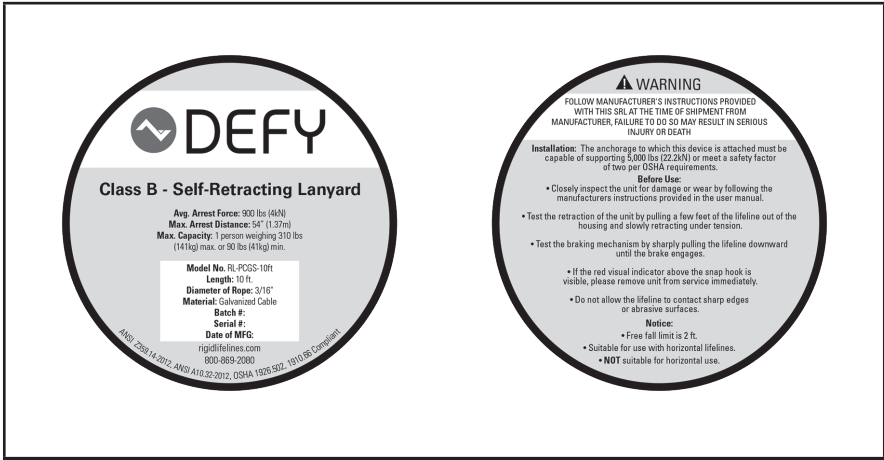
- Defy™ Self-Retracting Lanyards should be stored in a cool, dry place out of direct sunlight.
- Do not store in areas where damage from environmental factors such as heat, light, excessive moisture, oil, chemicals and their vapors, or other degrading elements may be present.
- Do not store damaged equipment or equipment in need of maintenance in the same area as product approved for use.
- Equipment that has been stored for an extended period must be inspected as defined in these *User Instruction Manuals* prior to use.

Specifications for Defy™ SRLs

Part Number	Working Length	Line Type	Housing Type	Weight	Standard Regulation
RL-PCWB6FT	6 ft.	1 in. Poly	Polymer	3 lb.	ANSI Z359.14
RL-PCWB11FT	11 ft.	1 in. Poly	Polymer	5 lb.	ANSI Z359.14
RL-PW-20FT	20 ft.	1 in. Poly	Polymer	12 lb.	ANSI Z359.14
RL-PW-40FT	40 ft.	1 in. Poly	Polymer	16 lb.	ANSI Z359.14
RL-PCGS10FT	10 ft.	3/16 in. Galvanized cable	Polymer	5 lb.	ANSI Z359.14
RL-PS-20FT	20 ft.	3/16 in. Galvanized cable	Polymer	12 lb.	ANSI Z359.14
RL-PS-30FT	30 ft.	3/16 in. Galvanized cable	Polymer	13 lb.	ANSI Z359.14
RL-PS-50FT	50 ft.	3/16 in. Galvanized cable	Polymer	18 lb.	ANSI Z359.14

Labeling

All labeling must be legible and attached to the housing of the Self-Retracting Lanyard.



Service Policy

1. Obtain as much information as possible concerning the problem through personal observation by yourself or other authorized personnel familiar with the job and equipment: include model, serial and/or part numbers, voltages, speeds, and any other special identifying features. Be prepared to discuss the situation in detail.
2. All authorized labor charges will be based on straight time. Hourly rates, estimated man hours, and not to exceed total dollar amount required for corrections are to be agreed upon before authorization is given. There will be no allowances for overtime except in dire emergencies and then only with prior approval.
3. A verbal agreement may be reached immediately on both the method of correction and the approximate cost. A warranty authorization number will be assigned for the specific incident. A confirming written authorization will be forwarded to the distributor.
4. The distributor must send an itemized invoice, showing our release number or invoice number and warranty authorization number after authorized corrections have been made. A credit memo will be issued by accounting after the invoice has been received and approved. Warranty charges ARE NOT to be deducted from outstanding open account invoices under any circumstances.
5. Any field corrections made prior to an authorization by Rigid Lifelines will not be accepted as a warranty charge or the responsibility of Rigid Lifelines. Any modification to the equipment made without prior approval of the seller will void all warranties. A verbal authorization for modification may be obtained, in which event a warranty authorization number will be assigned for the specific modification. A confirming written authorization will be forwarded to the distributor.

One-Year Equipment Warranty

Rigid Lifelines warrants all Rigid Lifelines® fall protection soft goods, devices, connectors, and accessories to be free from defects in material and workmanship for a period of one (1) year, commencing on the date of shipment to the first retail purchaser ("Purchaser").

Rigid Lifelines is dedicated to offering superior service and quality products to all of our customers. If you would like to contact a customer service representative, please call the following number: 1 (844) 467-4443. We will be happy to assist you in any way that we can.

These warranties do not extend to equipment which has been subject to misuse, use in excess of rated capacity, negligent operation, use beyond Rigid Lifelines published service factors, improper installation or maintenance, adverse environments, and does not apply to any equipment which has been repaired or altered without Rigid Lifelines written authorization. This warranty is void for any product that is designed to deform or absorb energy during a fall event and needs to be replaced after a fall event has occurred.

Written notice of any claimed defect must be given to Rigid Lifelines within thirty (30) days after such defect is discovered. Rigid Lifelines obligation, and Purchaser's sole remedy under this warranty is limited to, at Rigid Lifelines discretion, the replacement or repair of the equipment at Rigid Lifelines factory or at a location approved by Rigid Lifelines. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER WHETHER EXPRESS, IMPLIED, OR STATUTORY. SELLER MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE EQUIPMENT AND MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED.

Rigid Lifelines shall not be liable, under any circumstances, for any indirect, special, or consequential damages including (but not limited to): lost profits, increased operating costs, or loss of production. This warranty shall not extend to damages including (but not limited to): lost profits, increased operating costs, or loss of production. This warranty shall not extend to any components or accessories not manufactured by Rigid Lifelines (example: casters), with the exception of the components, systems, or accessories involved with XSPlatforms, and purchaser's remedy for such components and accessories shall be determined by the terms and conditions of any warranty provided by the manufacturer of such components and accessories.



Rigid Lifelines
730 Hemlock Road, Suite 104
Morgantown, PA 19543

Toll Free: (844) 467-4443
Local: (610) 286-8030
Fax: (610) 286-6408

RigidLifelines.com
info@rigidlifelines.com