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USER INSTRUCTION MANUAL



SELF RETRACTABLE LIFELINE

Product RTZG18SLE
18 ft.

BATCH 00835111
SERIAL # 0016

This instruction manual

applies to the following model:

RTZG20S, RTZG30S, RTZG18SLE, RTZG25SLE,
RTZG50S, RTZG100S, RTZW11S



ANSI Z359.14



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Do not skip this instruction manual. Read the instruction manual carefully before using the equipment. If failed in doing so it may cause serious injury or Death.

Manufacturer	:	800-451-3077 RitzSafety.com
Certification Body	:	SATRA Technology Europe Ltd, Bracktown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)
Ongoing Assessment Body	:	SGS United Kingdom Ltd., Unit 202B, Worle Parkway, Weston-super-Mare, BS22 6WA, UNITED KINGDOM. (Notified Body 0120)

Note: The user is advised to keep the user instructions document for the life of the product.

This manual must be read and understood in its entirety and used as part of fall protection training program as required by OSHA or any state regulatory agency. These instructions are intended to meet the manufacturer instructions as required by ANSI Z 359.14 and OSHA 1926. The user must fully understand the proper equipment use and limitations.

TABLE- SPECIFICATION (ANSI SRL)

Model Number	Lifeline Material and Size	Lifeline Length	Maximum Arresting Force	Maximum Arrest Distance	Comply ANSI Z359.14 Class
RTZG18SLE	High Impact Strength Polymer, G.I. wire rope 7/32"	18 ft (5.48 m)	1800 lbs	120 inches (3048 mm)	B
RTZG25SLE	High Impact Strength Polymer, G.I. wire rope 7/32"	25 ft (7.62 m)	1800 lbs	120 inches (3048 mm)	B
RTZG20S	7X19 Galvanized Steel cable (3/16" dia)	20 ft (6.096 m)	1800 lbs	54 inches (1372 mm)	B
RTZG30S	7X19 Galvanized Steel cable (3/16" dia)	30 ft (9.0 m)	1800 lbs	54 inches (1372 mm)	B
RTZG50S	7X19 Galvanized Steel cable (3/16" dia)	50 ft (15.24 m)	1800 lbs	54 inches (1372 mm)	B
RTZG100S	7X19 Galvanized Steel cable (3/16" dia)	100 ft (30.48 m)	1800 lbs	54 inches (1372 mm)	B
RTZW11S	Polyester Webbing (1 inch)	11 ft (3.35 m)	1800 lbs	54 inches (1372 mm)	B

LIFESPAN: The estimated product lifespan of this product is 10 years from the date of manufacturing. The following factors can reduce the lifespan of the product : intense use, contact with chemical substances, specially aggressive environment, extreme temperature exposure, UV exposure, abrasion, cuts, violent impacts, bad use or maintenance.

DISCLAIMER: This information on the product is based upon technical data that RITZ SAFETY obtained under laboratory conditions and believes to be reliable. RITZ SAFETY does not guarantee results and takes no liability or obligation in connection with this information. As conditions of end use are beyond our control it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Please ensure that this information is only to check that the product selected is suitable for the intended use. Any product that is damaged, torn, worn or punctured should be immediately discontinued from usage .

EQUIPMENT RECORD				
Product				
Model & type/identification		Trade Name		Identification number
Manufacturer		Address		Tel., email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (eg. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

1. INTRODUCTION TO RETRACTABLE TYPE FALL ARRESTER LIFELINE :

Installation: Follow step-1 & step-2 install this equipment :-

STEP 1: Connect the anchorage eye at the top of the Retractable Fall Arrestor to a suitable anchorage point situated above the user's head using Carabiners as per ANSI Z359.12-2009 & ensure the Carabiner is locked.

STEP 2: Now connect the swivel hook of the equipment to the attachment element of your full body harness and ensure that it is locked. You are now safe to move up & down in normal speed. In the event of a fall, the Retractable Fall Arrestor locks & also minimizes the impact forces on the body of user.

2. GENERAL REQUIREMENTS, WARNINGS AND LIMITATIONS:

- The Equipment is designed for use as a part of a personal fall protection system. Components must not be used for any other operation other than that which it has been designed and approved. Fall Arrest system are designed to comply with OSHA, Fall Restraint System must be designed by a Qualified Person, and must be installed and used under the supervision of a competent person.
 - All authorized persons/users must refer the regulations governing occupational safety, as well as applicable ANSI or CSA standards. Please refer to product labeling for information on specific OSHA regulations, ANSI and CSA standards met by the product.
 - Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere the operations of the system. All equipment must be inspected before each use according to the manufacturer's instructions. All equipment should be inspected by a qualified person on a regular basis.
 - To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.
 - Equipment must not be altered in any way. Repairs must be performed only by the manufacturer, or persons or entities authorized in writing by the manufacturer.
 - Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded. Any equipment subject to a fall must be removed from service. The authorized person/user must have a rescue plan and the means at hand to implement it when using this equipment.
 - Never use fall protection equipment for purposes other than those for which it is designed. Fall protection equipment should never be used for towing or hoisting.
 - All synthetic material must be protected from slag, hot sparks, open flames, or other heat sources. The use of heat resistant materials is recommended in these applications.
 - Never use natural materials (manila, cotton, etc.) as part of a fall protection system.
 - Do not expose this equipment to chemicals which may have a harmful effect on the materials used to construct it. Be especially aware of caustic environment, or those that contain high levels of organic acids or bases. If you are uncertain about the safe operations of this equipment in any environment, contact RITZ SAFETY for further instructions.
 - Do not use the equipment near sharp edges and abrasive surfaces.
 - Do not use the equipment around moving machinery or electrical hazards.
 - RITZ SAFETY Self Retractable lifeline should be used only with the combinations of components, sub-systems or both which may not affect or interfere with the safe function of one another. Be certain that connecting devices are compatible and that other elements of the PFAS are safe to use and compatible before use.
- TRAINING REQUIREMENTS:** The employer must provide a training program to each employee who might become exposed to fall hazards. The program must enable each employee to recognize the hazards of falling and must train to follow each employee in the procedures in order to minimize these hazards. Relevant Federal, State, and local requirements, procedures, and standards must also be a part of training.
- The employer must ensure that each employee has been trained, as necessary, by a Competent or Qualified Person in the nature of fall hazards in the work area, the correct erecting, maintaining, disassembling, and inspection of the fall protection systems being used, and the use of personal fall arrest systems.
- RESCUE PLAN:** The user is required to have a rescue plan and the means at hand to implement the plan when using the equipment.
- EQUIPMENT IS SUBJECTED TO A FALL:** Remove the equipment from service immediately if it has been subjected to the force of a fall arrest. Contact your distributor or RITZ SAFETY about policies regarding replacement of RITZ SAFETY components involved in a fall incident.
- INSPECTION:**
- Only the manufacturer of this equipment or persons or entities authorized in writing by the manufacturer must repair the fall protection equipment.
 - The date of first inspection should be recorded by the employer on the equipment, and any serial number must be recorded on the owner's Inspection Log.
 - Formal inspections must be made either by a Competent or a Qualified Person on (at least) a semi-annual basis.
- PRIOR TO EACH USE:**
- Fall protection equipment must be inspected by the user for defects, damage, or deterioration.

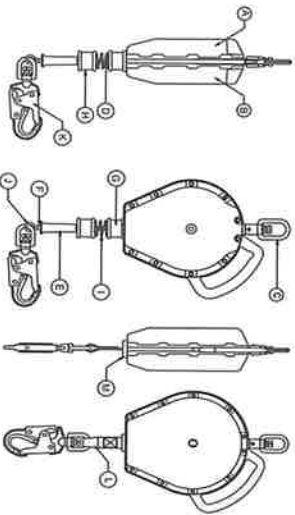
- Any suspected defective equipment must be removed from service immediately.
- If the manufacturer's label is not legible or is missing, the equipment must be removed from service.
- Fall protection equipment must be removed from service upon evidence of defects, damage, or deterioration, or upon expiration of the manufacturer's specified service limits, whichever comes first.

7. MAINTENANCE, CLEANING, AND STORAGE: Repairs to equipment must be administered only by a RITZ SAFETY representative or person or entity authorized by RITZ SAFETY. Contact RITZ SAFETY to request equipment maintenance and/or repair. Cleaning after use is important for maintaining the safety and life of the equipment. Clean the equipment of all dirt, corrosives, and contaminants. If the equipment cannot simply be wiped clean use a mild soap and water. Rinse, wipe, and hang to dry. Store equipment where it cannot be affected by heat, light, excessive moisture, oil, chemicals, or other degrading elements.

WARNING

Consult with your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age, fitness, and health conditions can seriously affect a worker's ability to withstand falls. Pregnant women and minors must not use any RITZ SAFETY Fall Protection equipment.

PART LIST	
S.NO.	ITEM/ DESCRIPTION
A	PATCHET CASING
B	PLAIN CASING
C	HANDLE WITH SWIVEL ATTACHMENT
D	GALVANIZED WIRE ROPE(6.5mm)
E	SNOUT
F	FERRULE
G	DAWPER SPRING GUIDE
H	DAWPER SPRING CAP
I	DAWPER SPRING
J	THIMBLE
K	SWIVEL STEEL SHAWP HOOK (7H-14A)
L	WEAVING
M	WEAVING GUIDE



8. DESCRIPTION OF PRODUCT:

- Retractable:** All RITZ SAFETY Retractable are hereby referred to as Self Retracting Lifelines (SRL). The device is used to safely expand the working area where a harness with a 6 ft. lanyard is not adequate. Also, a SRL is designed to reduce the shock loading to the body of a worker by limiting the distance of a fall. The device allows for complete freedom of movement. This product is to be used as part of a complete fall arrest system. PFAS normally include the use of a full body harness, anchorage connector such as a carabiner and the SRL.

- RITZ SAFETY Self Retracting Lifeline:** Includes a swivel eye anchorage, self-locking swivel snap hook with impact indicator, and 3/16" galvanized wire cable/1" Polyester Webbing. SRL also comes with a Carabiner and tag line to be used with the device to avoid improper use.

9. PRODUCT APPLICATION INFORMATION: The SRL is used in a stationary or mobile manner. As a stationary device, the SRL would be mounted to an approved fixed anchorage connector directly overhead. The SRL would extend as the user moves away from the anchor point and it retracts as the user moves back towards the anchorage point. As the SRL is used in a mobile manner, the device should be traveling on a steel cable, rope or fixed rail traveling from one anchorage connector to the other.

10. LIMITATIONS: Consider the following application limitations before using this equipment.

- Capacity:** The SRL is to be used by an individual with a combined weight (person, clothing, tool, etc.) of 90 lbs. minimum and no more than 310 lbs maximum. Not more than one person can be connected at one time.
- Corrosion:** Leaving the SRL in an environment for long periods of time that could cause corrosion of metal parts is not warranted in any way and must not be done. Use caution when working around corrosive compounds such as ammonia, sewage, fertilizers, seawater or other corrosive environments. When using in such environment the product may require more frequent inspections or servicing. These increased inspections and servicing are required to ensure corrosive damage is not impacting the performance of the SRL.

- Chemical Hazards and Heat:** Extreme caution must be taken when working in or around environments containing acid or caustic chemicals, particularly at elevated temperatures. Damage will result to GFP SRL's in this environment. Chemical damage is difficult to detect and it is recommended that the lifeline be replaced periodically to ensure safety of the workers. Additionally, this SRL is not to be used in high temperature environments. The SRL must be protected when using near welding, metal cutting,

ONE OR MORE OF THESE LABELS WILL APPEAR ON YOUR PRODUCT



MARKING EXPLANATION

The Retractable Fall Arrestor is marked with:

- The marking shows that the product meets the requirements ANSI Z359.1-2014 CLASS B SRL
- Identification of manufacturer
- Type or product code
- Wire/Rope Length
- Batch Number
- Serial Number
- Month/Year of Manufacture
- Norm & Year

18. PLAN THE FALL PROTECTION SYSTEM:

Before installation plan your system. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:

- **Anchorage:** Select a rigid anchorage capable of supporting the loads no less than 5,000 lbs per worker attached.
- **Sharp Edges:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- **After a Fall:** Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed. Retractable must be returned for servicing to RITZ SAFETY or an authorized repair center.
- **Rescue:** The employer must have a rescue plan when using this equipment. The employer must have the ability to perform rescue quickly and safely.

19. INSTALLATION REQUIREMENTS:

The following requirements outline the proper installation procedures to be followed.

- **Location:**
 - Select a location on an appropriate strength anchorage that will provide overall safety and proper loading. The anchorage must be free of deformities or defects that may weaken the structure. The anchorage to which the SRL is attached must be capable of sustaining static load in the directions applied by the personal fall arrest systems of at least 3,600 lbs. with certification of a qualified person, or 5,000 lbs. without certification.
 - When more than one person is attached to the same structure, the strength requirements stated above must be multiplied by the number of personal fall arrest systems.
 - Do not work above the anchorage point. While using an SRL, always ensures that there is constant tension on the cable. Slack in the cable could result in an increase in fall distance. Movement as sudden jerky movements will allow the locking mechanism to engage.
 - **Do not install in an area where a swing fall hazard potentially could exist. Failure to do so can result in injury or possibly death.**
 - Keep these instructions for reference.

WARNING:

If inspection reveals an unsafe or defective condition, remove the Self Retracting Lifeline from service and send it back to RITZ SAFETY or an authorized repair center.

20. TRAINING:

It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

WARNING:

Training should be conducted without exposing anyone to a fall hazard. Training should be repeated on a periodic basis in accordance with your organization policy and compliance with OSHA regulations.

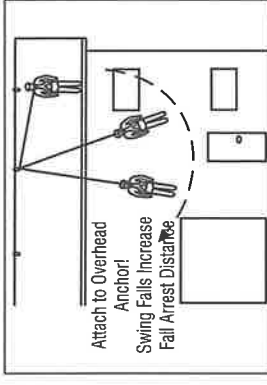
or similar activities. Hot sparks and slag can damage this equipment. Users must inspect SRL prior to each use.

• **Electrical Hazards:** For web and wire rope models, there is a possibility of an electric current flowing through the lifeline. Moisture absorbed by the lifeline may provide a path for electrical current to flow, resulting in electrical shock. Use caution where the lifeline may contact high voltage power line.

• **Locking Speed:** Extreme caution should be taken when using this device whereas an obstructed fall could occur as well as when someone must perform work in a confined or cramped space. Working in these types of environments could limit the speed at which the locking mechanisms engage. Extreme caution should be taken when working on low pitched roofs, where a worker may slide instead of fall. A clear path is required to ensure positive locking of the SRL.

• Considers when calculating distance:

- Distance of Deceleration
- Movement of harness attachment element (D-ring)
- Free Fall Distance
- Worker Height (Worker's height could affect the free fall distance)
- Elevation of Anchorage Connector
- Lengths of Connecting Subsystems



10. LIMITATIONS CONTINUED:

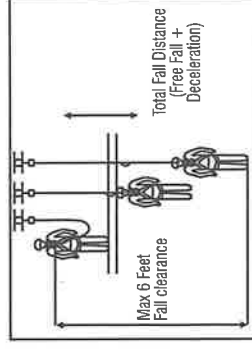
- **Swing Falls:** Swing falls occur when the anchorage point is not directly attached overhead. The force of striking an object in a swing fall may cause serious injury or death. Minimize the risk of a swing fall by working as close to the anchorage point as possible. Do not permit a swing fall as injury could occur. Swing fall will significantly increase the clearance required when a self retracting lifeline or other variable length connecting system is used.
- **Potential Environmental Hazards:** Use of fall protection equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include but are not limited to: chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

11. APPLICABLE STANDARDS:

Refer to potential applicable standards. Standards might include OSHA regulations depending on the type of work, and also might include state regulations where applicable. Consult regulatory agencies for more information on personal fall arrest system and associated components. This product is designed to comply with OSHA and ANSI Z359.14 standards when used properly, and in accordance with manufacturer's instructions.

12. SYSTEM REQUIREMENTS:

- **Compatibility of Components:** RITZ SAFETY Fall Protection equipment is designed to be used with RITZ SAFETY approved components. Please contact RITZ SAFETY if you have a question regarding compatibility. Making substitutions without approval from RITZ SAFETY Protection may lead to injuries and or death by compromising the safety and reliability of any component or that of the complete system. A qualified and competent person can make a determination on compatibility of equipment from different manufacturers. If in doubt, please contact RITZ SAFETY Fall Protection for clarification.
- **Compatibility of Connectors:** Connectors (D-rings, hooks, carabiners) must be capable of supporting at least 5,000 lbs. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. Self locking snap hooks and Carabiners are required by ANSI and OSHA. Connectors must be compatible in size, shape, and strength.



- **Making Connections:** Only use self-locking snap hooks and carabiners with any RITZ SAFETY Fall Protection equipment. Do not use equipment that is not compatible. If you have any questions on compatibility please contact RITZ SAFETY.

WARNING:

Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

13. PERSONAL FALL ARREST INFORMATION:

- **Personal Fall Arrest System (PFAS):** Personal fall arrest systems used with this equipment must meet applicable state, federal, OSHA, and ANSI requirements. A full body harness must be worn when this equipment is used as a component of a personal fall arrest system. As required by OSHA, the personal fall arrest system must be capable of arresting the user's fall with a maximum arresting force of 1,800 lbs., and limit the free fall to six feet or less.

WARNING:

Do not alter or intentionally misuse this equipment. Consult with RITZ SAFETY when using this equipment in combination with components or subsystems other than those described here in this manual and/or other information. Use caution when using this equipment around moving machinery, electrical and chemical hazards, and sharp edges.

14. OPERATION, USE AND PLAN:

- **Anchorage:** The anchorage to which the SRL is attached must sustain static load of at least 3,600 lbs. applied in the directions permitted by the fall arrest system, under supervision of a certified or a qualified person, or 5,000 lbs. without certification. Refer to OSHA and ANSI guidelines for specific definition. This device is only to be used by one person at a time. When more than one personal fall arrest system is attached to the same structure, the strength requirements stated above must be multiplied by the number of personal fall arrest systems attached to the structure.
- **Horizontal Systems and Tripods:** In applications where the SRL is used in conjunction with a horizontal system or with Megapod, ensure the support structure and/or the horizontal system components are compatible.
- Horizontal systems must be designed and installed under the supervision of a qualified engineer.
- **Anchorage Selection:** Select an anchorage point capable of supporting at least 5,000 lbs. Additionally, select a location for anchorage of the SRL that will avoid a free fall and swing fall hazards. To prevent an increased free fall distance, do not work above the anchorage location.
- **Free Fall:** Avoid slack in the line and do not lengthen the SRL by connecting a lanyard or other snap hooks directly to the retractable.
- Do not use this device at or below your feet. This will increase your free fall distance beyond the allowable limits set by OSHA and exceed the capabilities of the SRL to safely arrest a fall
- **Swing Falls:** Swing fall will occur when the anchorage point is not directly over the head of the worker or directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury including death. Minimize swing falls by working as directly below the anchorage point as possible. In all situations where a swing fall can occur, the likelihood of an injury can occur. Please contact RITZ SAFETY Fall Protection if you have questions on a particular application involving one of our retractable.
- **Fall Clearance:** Ensure that there is always adequate clearance in the path of a fall to avoid striking an object or lower level. A minimum of six feet from the working level to the lower level or nearest obstruction is recommended as long as the SRL is attached directly over head of the worker and the worker is not in danger of insult as a result of a swing fall hazard.
- **Sharp Edges:** Unprotected and sharp edges can damage the lifeline. Please make sure to avoid working where this can occur and provide protection where possible. A RITZ SAFETY manufactured energy absorbing device can be added to aid in reducing the impact forces on the entire device. For more details contact RITZ SAFETY.

15. INSPECTION OF SELF RETRACTING LIFELINES:

- **Before each use of this equipment inspect it according to the following guidelines:** A formal inspection of fall protection products/components must be performed at least every six months by a competent person other than the user. The frequency of formal inspections should be based on conditions of use or exposure. Record the inspection results in the inspection and maintenance log at the end of this manual. OSHA 1910.66, OSHA 1926.502 and ANSI Z359.14 requires an inspection of equipment before each use. Before using this equipment, record the serial number information from the label in the inspection and maintenance log at the end of this manual.
- **Annually:** ANSI requires a formal inspection of the SRL be completed by a competent person other than the user at least twice a

year. More formal and frequent inspections may be required based upon the severity and environmental conditions of the workplace. RITZ SAFETY Retractable, unless otherwise marked, are required to be recertified every two years from the date of first use.

WARNING:

If inspection reveals an unsafe or defective condition, remove the product from service and send product back to RITZ SAFETY authorized service center.

- **After a Fall Arrest:** Inspect the impact indicator on the snap hook of the SRL and look for an exposed red color band. Do not attempt to reset the impact indicator. Remove the retractable from service immediately and return to RITZ SAFETY or an authorized repair center. If using a retractable with a webbed lifeline, then inspection of the shock pack is required. Remove retractable from service if there are any deformation, elongation or other signs of the shock pack being torn or deployed. If inspection reveals an unsafe condition, remove unit from service immediately and destroy, or contact an authorized service center for repair.

16. INSPECTING THE SELF RETRACTING LIFELINE:

- STEP 1:** Inspect for loose screws and bent or damaged parts.
- STEP 2:** Inspect housing for distortion, cracks or other damage. Ensure the swivel eye is not damaged or distorted in anyway. Make sure the swivel eye turns freely.
- STEP 3:** The lifeline must fully extend and retract without hesitation or creating a slack line condition.
- STEP 4:** Ensure the device locks up when lifeline is jerked sharply.
- STEP 5:** Ensure the labels are present and fully legible with inspection log information completed.
- STEP 6:** Look for signs of corrosion on the entire unit.
- STEP 7:** Wire rope inspection must include identifying cut kinks, broken wires, bird-caging, corrosion, welding spatter, chemical damage, or severely abraded areas. Check all thimbles etc. for excessive wear including cracks or separation of metal components.
- STEP 8:** Webbed lifeline inspection must include identifying frayed strands, broken webbing, burns, cuts, and abrasions. Inspect for excessive heat, paint build-up, soiling, rust, or chemical damage indicated by brown or discolored areas.
- STEP 9:** Inspect connecting hooks or Carabiners for signs of damage, corrosion or excessive wear.
- STEP 10:** Record inspection results in the inspection and maintenance log found in this manual. Clearly check off month the SRL was inspected on the label of the housing.



17. CABLE INSPECTION:

- When inspecting SRL's that utilize cable lifelines, it is critical to look for the following damages and deterioration that will result in malfunction of the unit and potentially unsafe conditions.
- **Crushing:** The cable will often get crushed or bent while being used on a job site. Cable that is crushed or bent will damage the retractable and thus the unit should be immediately taken out of service and returned to RITZ SAFETY or authorized repair center.
- **Cutting:** Movement over sharp edges or other objects while the cable is under tension results in damaged strands and broken wires. If, through inspection of the retractable lifeline prior to each use, it is found to have any broken strand, immediately remove from service and return to RITZ SAFETY or an authorized repair center.
- **Abrasion:** Abrasion can result from normal wear. Particular attention must be paid to the outer wire strands as they wear each use. If it is found have damage or deterioration from abrasion, immediately remove from service and return to RITZ SAFETY or an authorized repair center.
- **Kinking:** Any deformation in the cable whereas the lifeline appears to be bent, requires the retractable to be immediately removed from service and returned to RITZ SAFETY or an authorized repair center.
- **Corrosion, Arc or Heat Damage:** Extreme caution must be taken to avoid any potential damage as a result of using a retractable within an environment where corrosive compounds, welding, or high heat may exist. Corrosive damage could cause the cable to crack. Welding damage would result in fused wires and thus change the characteristics of the strength with regards to the wire. If the retractable is used in these environments, the retractable lifeline needs to be closely examined for damage.