FALL SAFE™

USER INSTRUCTIONS FOR
WIRE ROPE EXTENDER LANYARD

Model # 714004

SureWerx®

FALL SAFE™
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SureWerx, 49 Schooner St.
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USA labels
SureWerx USA Inc.
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Table of Contents

GENERAL INFORMATION 03
MANUFACTURER'S NAME AND ADDRESS 03
PART NUMBER AND MODEL DESIGNATION 04
THE WIRE ROPE EXTENDER LANYARD 04
INTENDED USE AND PURPOSE OF THE EQUIPMENT 04
PROPER METHOD OF INSTALLATION 04
COMPOUND LOADING 06
SELECTION OF PERSONAL PROTECTIVE EQUIPMENT TO BE USED WITH THE WIRE ROPE EXTENDER LANYARD 07
GENERAL CAUTIONS 08
INSPECTION, MAINTENANCE AND STORAGE 09
PROCEDURE FOR WIRE ROPE INSPECTION 09
CLEANING 10
FORMAL INSPECTION 11
INSPECTION CHECKLIST 12
WARRANTY 13

GENERAL INFORMATION

Anyone using this product must be familiar with and understand the instructions outlined in this manual. Failure to use these products in accordance with these instructions could result in serious injury or death.

The owner and user of this product must insure that this manual is stored in a manner that will make it available at any time to the user or installer for consultation or review.

If requested, this manual, along with the inspection log, must be presented to the manufacturer for review. When the Wire Rope Extender Lanyard is returned to the manufacturer for any reason, this manual must also be enclosed.

This product must be used in accordance with all applicable federal OSHA and state safety regulations.

This product is to be used as a part of an approved personal fall arrest system and is not intended as a lifting device for materials or anchorage point for lifting materials or any other purpose not specifically outlined in this manual. If questions arise about the suitability of this product for any particular application, consult Fall Safe at (303) 424-8650 for your particular application.

The Lanyards should always be handled in a manner that will protect them from damage or corrosion.

The use of this Lanyard in a manner not authorized by Fall Safe may impair its' function and safety. In such cases Fall Safe and its' authorized representatives will refuse to accept any liability for its' use.

It is the responsibility of the employer, as part of a total fall arrest, rescue and evacuation program, to retain the manufacturer's instructions and make them readily available to all users. The employer must provide adequate training in the proper use and care of this product prior to use.

MANUFACTURER'S NAME AND ADDRESS

Fall Safe™
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SureWerx, 49 Schooner St.
Coquitlam, BC V3K 0B3

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SureWerx USA Inc.
Elgin, IL USA 60123

PART NUMBER AND MODEL DESIGNATION

Model type:	Wire Rope Extender Lanyard
Part Number:	714003 – 3-ft. length
	714004 – 4-ft. length
	714005 – 5-ft. length
	714006 – 6-ft. length
	714007 – 7-ft. length
	714010 – 10-ft. length
Proof Load:	3,600-lb.
Load Rating:	5,000-lb. for fall arrest
Material:	1/4-in. wire rope, vinyl coated
	2-3/16-in. cargo ring, zinc-plated carbon steel
	Fall Safe Pelican Snaphook; double action, locking snaphook, zinc plated

THE WIRE ROPE EXTENDER LANYARD

The Wire Rope Extender Lanyard is a vinyl coated wire rope lanyard with a cargo ring on one end and a Fall Safe Snaphook on the other end (depending on the primary function of the lanyard, the snaphook will be either a Fall Safe “Pelican” snaphook, or a Fall Safe “Steelhead” Tie-Back snaphook).

INTENDED USE AND PURPOSE OF THE EQUIPMENT

The Wire Rope Extender Lanyard is one component of an anchorage connector system that is designed and intended as an anchor point extender for an approved Personal Fall Arrest System, allowing easier access for connection.

PROPER METHOD OF INSTALLATION

The Wire Rope Extender Lanyard is one component of a complete fall arrest system which must include a worker’s personal protective equipment. The most common use for an Extender Lanyard is to extend the overhead anchorage location for a worker’s fall arrest anchorage to a lower level so that it is within his reach from his walking/working surface. The lanyard should always be installed with the snap end attached to the overhead anchorage and the cargo ring hanging down (see Figure 1). This makes the cargo ring available for the worker’s attachment point to his personal protective equipment, whether that be a shock-absorbing lanyard or a self-retracting lifeline. The cargo ring is the only approved attachment point for the workers personal protective equipment.

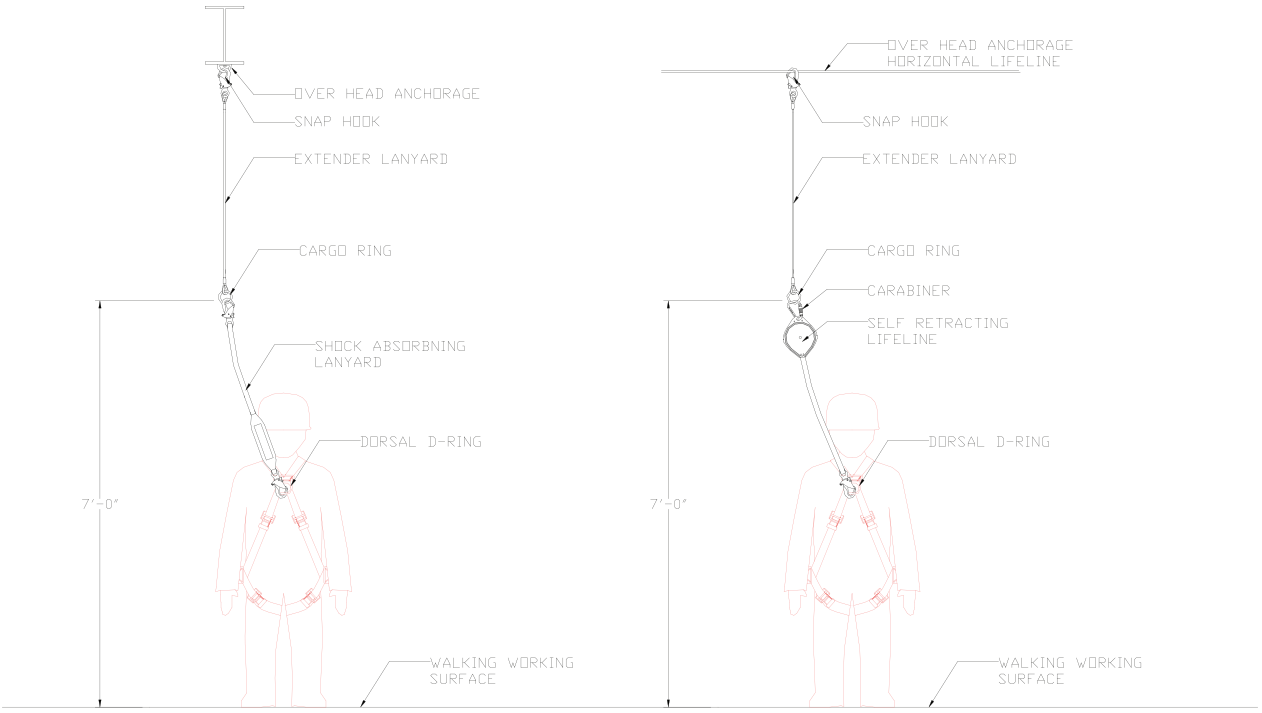


Figure 1

WARNING: (Danger of tie-back installation) Care must be taken to never use the Extender Cable as a choker in a tie-back installation. It is possible when installing an Extender Cable to loop the Extender Cable around a beam and then attach it back to itself by snapping the hook of the snap over the cable (see Figure 2). It is also possible to loop the Extender Cable around an I-beam and insert the snap back through the cargo ring creating a choker effect (see Figure 3). Both of these arrangements are strictly forbidden.

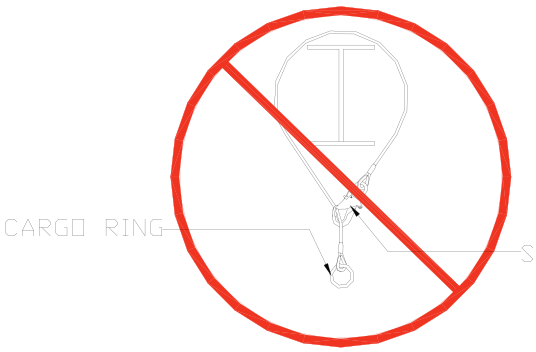


Figure 2
DO NOT USE as a choker

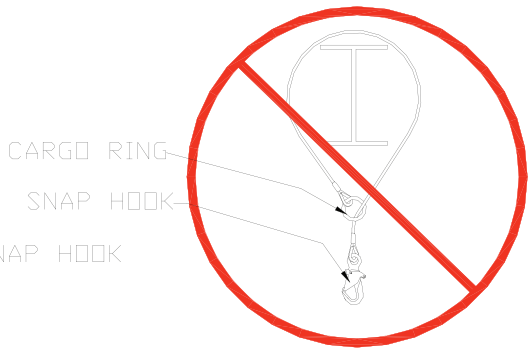


Figure 3
DO NOT USE as a choker

COMPOUND LOADING

It is especially dangerous to use a Wire Rope Extender Lanyard in a tie-back installation when the snap might be positioned over the beam during a fall. This type of arrangement can cause the snap to become restricted against the beam and cause gate or snap failure due to compound loading. A fall in this position can cause the snap gate to be side loaded creating double the fall arrest force seen by the shock absorber. Standard locking snaphooks are not designed to withstand these forces in side load or gate load (see Figures 4 and 5).

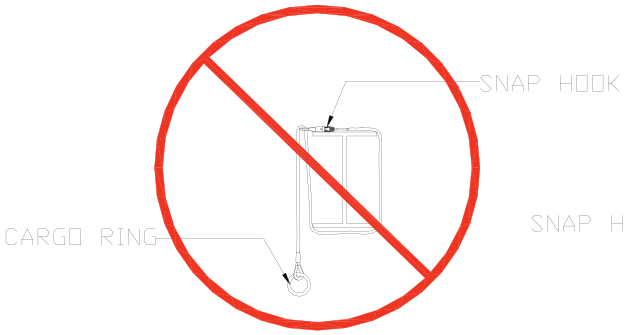


Figure 4
Compound loading of snaphook

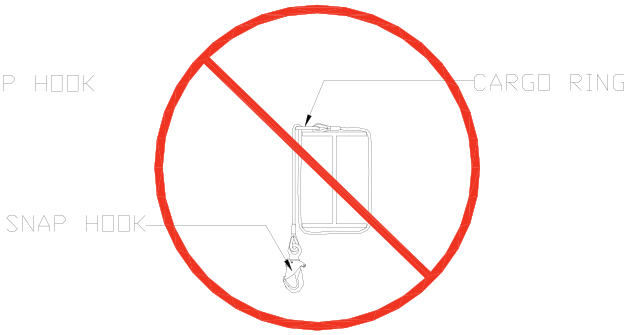


Figure 5
Compound loading of cargo ring

When a worker is looping an extender cable around an I-beam or structure to create an anchorage, the only approved location to attach the Extender Cable snap is to the Extender Cable cargo ring (see Figure 6)

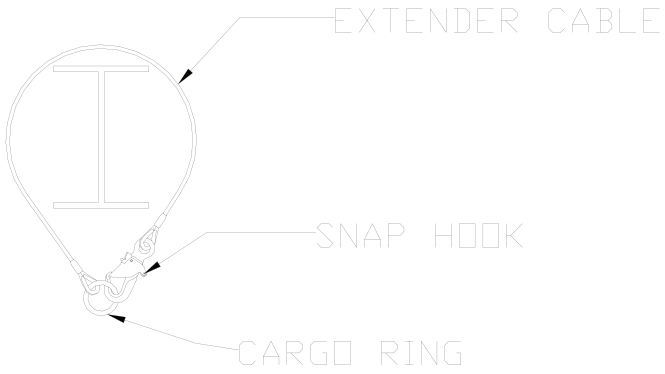


Figure 6

When anchoring the personal protective equipment to the Extender Cable, the only approved location to attach to the snap of the shock-absorbing lanyard is to the cargo ring of the Extender Cable (see Figure 7).

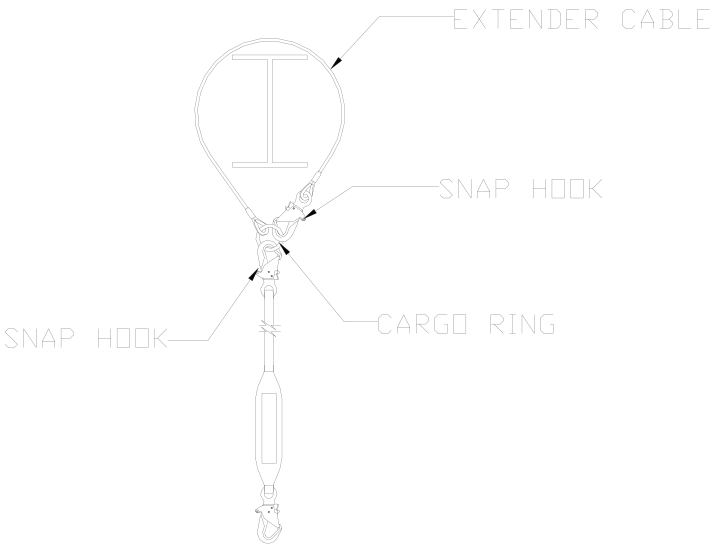


Figure 7

In all applications using the Extender Cables, double-action self-locking and self-closing snaphooks or carabiners must be used.

SELECTION OF PERSONAL PROTECTIVE EQUIPMENT TO BE USED WITH THE WIRE ROPE EXTENDER LANYARD

When the Wire Rope Extender Lanyard is installed properly the location of the cargo ring will be at or above the level of the worker's dorsal d-ring but within his reach. This is usually 5-ft. or higher above the walking/ working surface. In this arrangement the worker should be wearing a full body harness and be attached using a 900-lb. MAF (Maximum Arrest Force) shock-absorbing lanyard or selfretracting lifeline incorporating connectors that are double-action, self-closing and self-locking and be attached to the harness at his dorsal d-ring. In this arrangement a worker will be limited to a free-fall of 6-ft. or less.

In some instances (when no overhead structure exists) a worker may find the need to attach to an Extender Lanyard that is looped around a beam or structure located at his feet. In this type of an arrangement a worker will experience at least 12-ft. of free-fall before his shock-absorbing lanyard will begin to pull on the anchorage cable. Standard 6-ft. 900-lb. MAF shock absorbers are not designed for this type of fall and can cause high arrest forces or lanyard breakage that can result in serious injury or death.

Whenever the possibility of experiencing a free-fall greater than 6-ft. exists, always use an OSHA approved 1800-lb. MAF shock-absorbing lanyard and limit the weight of workers approved to work in these conditions to 320-lb. or less including harness and tools.

Train workers to be aware of resulting free-fall distances when they anchor at their feet. When using a 6-ft. shock absorbing lanyard, a typical fall will require 16-ft. plus the length that the cargo ring hangs below the top of the walking working surface. Therefore, the Wire Rope Extender Cable should not be longer than needed just to circle the anchorage structure (see Figure 6).

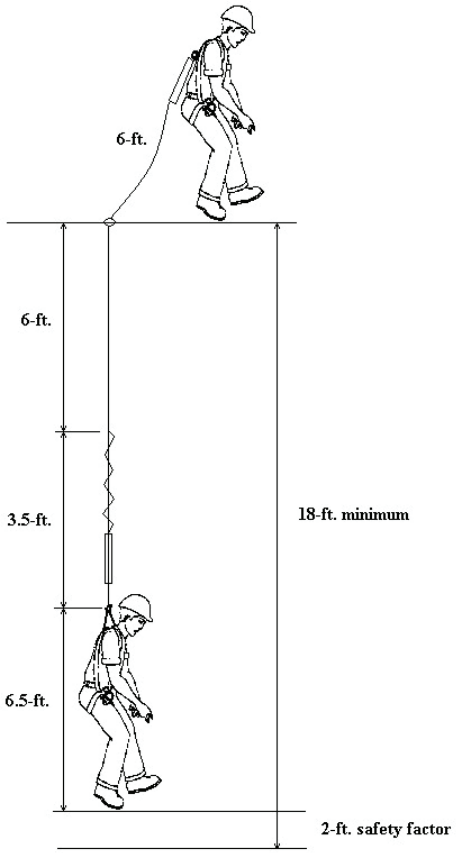


Figure 8
Required Fall Clearance

GENERAL CAUTIONS

This product should be used only in accordance with these instructions, the instructions of any device to be used with the Wire Rope Extender Lanyard, and in accordance with all state, federal and local safety regulations. The worker must read, heed and understand all warnings and instructions called out in the labels and operating instructions. Any hazards to safe and proper operation must be eliminated prior to use.

The manufacturer is not responsible for damages resulting from an improper application or use of this product. Proper application means following the operating instructions, workplace geometry, workplace hazards and the conditions of inspection and maintenance.

The user must have a rescue plan, be trained in the use of this plan and the means at hand to implement it when using this equipment.

Damaged products and products having already been used for arresting a fall must be removed from service.

Whenever the structure, or general work area in which any Wire Rope Lanyard Extender is installed is altered, the suitability of the fall protection anchorage must be re-certified by a Qualified Person who must determine if the fall protection equipment will still function in an appropriate and safe manner. This Qualified Person should conduct periodic inspections at least once yearly.

INSPECTION, MAINTENANCE AND STORAGE

The user of this product is responsible for the installation of inspection, maintenance and use of the Wire Rope Extender Lanyard. The user shall inspect equipment before each use to ensure that the equipment is in serviceable condition and operating correctly.

A Qualified Person capable of determining the suitability for use should perform twice yearly inspections of all Lanyards being used to assure not only the condition of the Lanyards but also the condition of the structures to which they are attached and the manner they are used.

In addition to this, the product must be identified and removed from service **IMMEDIATELY** after **ANY** fall arrest load has been applied until it has been inspected by a Qualified Person and re-certified for use.

The user must tag and remove equipment from field service that has been subjected to a fall arrest. An authorized inspection is then required to determine if the other components of the Personal Fall Arrest System are suitable for further use.

When any inspection reveals defects in, damage to, or inadequate maintenance of equipment, the equipment shall be tagged as **"UNUSABLE"** and be permanently removed from service or undergo adequate corrective maintenance by means of an authorized inspection before return to service.

PROCEDURE FOR WIRE ROPE INSPECTION

Carefully conducted inspections are necessary to ascertain the condition of the wire rope making up the Wire Rope Extender Lanyard before each days use, and a more thorough examination must be conducted by a Qualified Person on a twice yearly basis. The primary purpose of inspecting the wire rope is to allow for the removal from service those lanyards that contain defects or damage that could pose a hazard to continued normal operations. The individual making the inspection should be familiar with the lanyard, its' method of operation and use, and the components making up the lanyard.

The visual inspection of the lanyard begins with an examination of the ferrules. The ferrules should be examined for cracks or loose fittings. Two ferrules should be present at each end of the lanyard. There should be no broken wires present where it exits the ferrules. If ANY broken wires are located next to the edge of the ferrules, the lanyard should be removed from service immediately.

Distortion, or bending of the thimble (located in the eyes of the lanyard at both ends) is an indication that the lanyard has been overloaded and needs to be removed from service.

Looking at the wire rope, if ANY of the following defects are observed, the lanyard should be tagged "UNUSABLE" and immediately removed from service:

- Distortion of the wire rope, such as kinking, crushing, bird-caging, strand displacement, etc.
- An exposed core strand.
- General corrosion
- Reduction of the outer diameter of the wire rope due to wear
- Evidence of any heat damage from any cause
- More than Two broken wires in one lay or more than one broken wire at an end connection

CLEANING

Prior to use, the Wire Rope Extender Lanyard may be cleaned if necessary with a solvent based oil such as WD-40 that do not contain chlorine or chemicals corrosive to steel or zinc. Spraying with a light oil and wiping clean will ensure that the snaphook is free of debris and well lubricated.

Formal Inspection

Buyer/client:	
Product description: Wire Rope Extender Lanyard	Model No. 714004
Year of Manufacture: July - 03	
Date of purchase:	
Date of first use:	
Name of user:	

This formal inspection grid and log has to be filed at the buyers department of occupational health and safety and is to be sent along with the product for the annual formal inspection through a competent person. Only completely inspected products are subject of the product warranty and liability of the distributor and manufacturer.

Inspected according to specifications outlined by manufacturer:

By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature
By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature
By:	Date:	By:	Date:
Stamp	Signature	Stamp	Signature

The inspector confirms with his signature the compliance of his inspection with all specifications as outlined by the manufacturer and as required by standards and regulations pertaining to occupational health and safety and fall protection.

Inspection Checklist

Wire Rope Extender Lanyard, Model No.: 714004

	1. Year	2. Year	3. Year	4. Year	5. Year	6. Year
	Date	Date	Date	Date	Date	Date
By a qualified person:	Inspector	Inspector	Inspector	Inspector	Inspector	Inspector

Wire Rope Extender Lanyard:

No Corrosion						
No deformation						
Functioning condition						
Cargo Ring present						
Snaphook closes and locks						
Attachment structure strong enough						

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WARRANTY: • Warranty policy is that of an implied manufacturer warranty and covers manufacturer's defects and workmanship. This warranty is valid for one year from date of purchase unless otherwise stated • Warranties are limited to the replacement of defective parts. Parts damaged from misuse will not be replaced under the warranty program. SureWerx USA shall be the sole judge of part condition • Warranty does not apply to: (i) cosmetic damage, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) anticipated wear or damage due to use of the product in the application for which it is marketed; (v) damage to a product that has been modified or altered without the written permission of SureWerx. • Warranty varies by brand and product category. Please contact customer service for specific warranty policies

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