



Fire Innovations

Product Specifications

Product No	1101-0090
Description	Multi Use Strap
Revision	A
Date:	06.04.13



OVERVIEW

Fire Innovations Multi Use Strap (MUS) is a certified NFPA 1983:2012 Fire Resistance (FR) Ladder strap , a one leg harness, and can be used for various RIT and victim carries/draggs.

This strap can be neatly stowed inside an accessory pouch or a turnout pocket. Also, the end of the MUS is a NFPA Positioning Point. Additionally, the carabinered Multi-Use Strap (CMUS) is a NFPA Escape Anchor in the Basket position.

The MUS can attach via a NFPA carabiner or a Multi Configuration Strap (MCS) to any Fire Innovations NFPA Escape Belt or Class II Harnesses.

HIGHLIGHTS

- NFPA Escape Anchor (carabiner version)
- NFPA Position Point
- NFPA Ladder Strap
- Kevlar construction (NFPA 1983:2012 FR Compliant)
- Forged buckles

KEY FEATURES

- Light weight
- Fast fine adjustment
- Kevlar® Constructed
- NFPA 1983-2012 FR Escape Belt & Ladder Belt*

KEY BENEFITS

- Used in many operations
- Can wrap over one leg for storage.

CERTIFICATIONS

- NFPA 1983-2012 FR Escape/ Ladder Belt

VERSATILITY

- The MUS can be used in RIT operations to drag a down firefighter
- Safety in an aerial platform
- Safety on steep roof operations
- Ladder operations
- Tethering with another firefighter during search activities
- Escape anchoring or change of direction strap (carabiner version)
- Place as a double leg harness
- Can be NFPA certified on other manufacturer's belts and harnesses

MODULAR & UPGRADABLE

The MUS can also be sewn on, tethered or carabineer in place. The choices are yours.



TECHNICAL SPECIFICATIONS

Materials	Description	Specifications
Hardware	Forged Steel	100% Proof test load 2500lbs+
Materials	1.75" Black Kevlar® Webbing	9000lbs
Thread	Kevlar®	138 Bonded
Weight	lbs	1

RELATED PRODUCTS

- Ladder hook

ADDITIONAL INFORMATION

Visit us at
www.fireinnovations.com

COMPANY FACTS

- Fire Innovations is an ISO 9001:2008 certified manufacturer.
- Products Independently tested by Underwriters Laboratories (UL)
- Founded in year 2000
- All products, proudly made in the USA

Product Segments	
Per position on rig	Recommend sewn or tethered version to prevent loss
Individual use	Carabineer version has more versatility
Uses	Bailout, Ladder operation, & Rescue
Benefits	Escape Anchor; Ladder Strap; Positioning point; Light weight;
Differences	More versatile than a large carabineer ladder lock
Turnout requirements	None; just wrap leg with strap and buckle to the O-Ring; Optional Extra holding strap available on turnout pant.
Adjustable	Fast Fine Adjustment (1-3sec.)

ACCESSORIES

Part No.	Description
1101-0090*	Multi-Use Strap™: NFPA Ladder Strap, Positioning Point, Escape Anchor (with carabineer option)
1101-0090.01	Attaches with 2 stage steel carabineer
1101-0090.02	Attaches with 2 stage aluminum carabineer
1101-0090.03	Attaches with 3 stage aluminum carabineer
1105-0051.14	Attaches with a 14" multi-configuration strap
1101-0080	Accessory Pouch
1101-0091	Any belt can be specified with a sewn on MUS

BID SPECIFICATIONS

Multi Use Strap

General Requirements

The Multi-Use Strap (MUS) shall be compliant to NFPA 1983-2012 Edition Standards. It can be used on all Fire Innovations Escape belts and Harnesses. The MUS shall be constructed of one and three quarter inch (1.75") Kevlar® webbing. The Strap shall be at the most 48" long; The MUS shall be certified as a NFPA Escape Anchor (carabiner version) and a NFPA Ladder Strap when attached to any Fire Innovations belts or harness. The Shane loop at the end of the MUS shall be rated as a NFPA Positioning point.

If a A-Frame Class II harness is to be used, a Multi-Use Strap II (MUS-II) shall be used, due to the length of the strap.

If the MUS or MUS-II is to be used on other manufacturers' Belts or harnesses, additional NFPA testing will be required by such manufacturers.

Buckles

All buckles shall be constructed of forged alloy steel and at the min. 100% proof load tested @11.2kN (2500 lbs.). Additionally, buckles shall be UL® tested and certified to NFPA 1983 and 2012 Edition Standards. An O-Ring is at one end of the MUS and a sewn handle on the other. A Snap adjuster buckle is used to adjust the strap when used in Ladder operation, Escape Anchor and Rescue operations.

Webbing

All webbing shall be constructed of dual layered 1.75" Kevlar and sewed with 138 bonded twisted Kevlar® thread. 5- Kevlar 42 count stitch bartacks secure the ends of the MUS. All webbing used in construction shall be UL tested and certified to NFPA 1983-2012 Edition Standards.

Optional Attachment

The MUS O-ring may be attached be a NFPA Carabiner, a Fire Innovations Multi Configuration Strap or a Fire Innovations End to End Strap. These configurations meet the NFPA 1983-2012 Edition Standard.

Q & A

Question

What approvals does the Fire Innovations Multi Use Strap have?

Answer

The Fire Innovations Multi Use Strap is approved and designed to exceed the standards of both NFPA 1983-2012 edition (Standard for Fire Service Life Safety Rope and System Components) as an Escape belt and/or Ladder belt (Escape Anchor, Ladder Strap, Positioning Point).

Question

Can the Multi Use Strap be longer or shorter?

Answer

Yes, the Multi Use Strap can be produced in different lengths but are limited to the Standard for Ladder operations. Call us for more details.

Question

How is the MUS sized?

Answer

We have taken a standard size that accommodates most usages. 44" seem to work. Custom sizes are available as a special order.

Question

How much does the MUS weight?

Answer

Less than 1lbs but that can differ depending how you connect the MUS to your belt or harness.

Question

Can the MUS be used as an Escape belt?

Answer

No. The MUS is not certified as a NFPA Escape Belt by itself.

Question

Why would I purchase the MUS?

Answer

The MUS is versatile in many operations, light in weight. Ease to store. It is critical component for ladder, roof and rescue operations.

Question

Should I get the Multi-Use Strap attached to the belt or carabineer on?

Answer

The use of the Carabineer Multi-Use Strap has some functional advantages over the sewn on/lanyard Multi-Use Strap. One could put the strap away either in the turnout pocket or the rig, when not in use. It can also be rapidly disconnected from the belt and used as an emergency escape anchor; or disconnected from the belt and reconnected using the adjusting buckle to provide an adjustable safety strap within an aerial platform.

The major advantage of a sewn-on or tethered MUS is that it cannot be separated or lost, and it is always ready to be used when needed.