

# MSA Arc Flash Full Body Harnesses



*Because every life has a **purpose...***



**POWER.**  
**HARNESSED.**

# MSA EVOTECH® and Workman® Arc Flash Harnesses

To keep workers safe around electrical hazards at heights, such as on bucket trucks, scissor lifts or other elevated areas, MSA EVOTECH and Workman Arc Flash Full Body Harnesses are designed to self-extinguish quickly to prevent melting or dripping in the event of an arc flash.

The lightweight and comfortable design molds to the body, allowing workers to wear the harness for hours without having to readjust constantly throughout their shift. Both are ASTM F887 third-party tested to ensure workers are protected from falls even after an arc flash of 40 cal/cm<sup>2</sup>. And with two price points, you can choose the harness best suited to your specific needs.

## Harness the power of MSA arc flash-rated fall protection.

### Understanding “Arc Flash”

Arc flash - also known as arc fault or arc blast - is a dangerous release of energy created by an electrical fault. An arc flash is a phenomenon where a flashover of electric current leaves its intended path and travels through the air from one conductor to another, or to the ground. The results are often violent; serious injury and even death can occur as a result.

In the United States alone, there are between five and ten arc flash accidents everyday, with more than 3,600 disabling electrical contact injuries each year. What is frightening is that due to the violent nature of an arc flash exposure, when a worker is ten feet away from the blast site, fatal burns can still occur. And when an employee is injured, the injury is serious – sometimes even fatal. Extended medical care for those whose lives have been altered by an arc flash incident is often required, sometimes costing in excess of \$1,000,000.

#### Arc flash can be caused by:

- Dust
- Dropping tools
- Accidental touching
- Condensation
- Material failure
- Corrosion
- Faulty Installation

#### Three factors determine the severity of an arc flash injury:

- Proximity of the worker to the hazard
- Temperature
- Time for circuit to break

#### ASTM F887 Test Requirements

The ASTM F887 standard outlines performance requirements of fall protection products for arc flash resistance. One requirement of the standard is that the webbing material must have a 7,000 lb tensile strength, which is higher than typical full body harness webbings found on the market. Additionally, the harness is put through an Electric Arc Performance test that requires the product to self-extinguish within five seconds after being subjected to an arc flash and cannot melt or drip. Lastly, the harness is put through an ANSI Z359 drop test using a 282 lb test torso and must be able to meet the drop test requirements.

#### Arc Flash (AF) Rated Products

When working conditions exist where people are subjected to potential hazards of extreme heat generation that could produce an arc flash, it is critical, particularly when working at heights, to use fall protection systems that not only resist AF exposure, but can perform in a fall situation as well.

AF rated products are designed to resist heat from an electrical arc flash. AF designated products have been tested to the applicable standards to maintain the required level of strength and performance with the ability to resist heat. Always look for the Arc Flash symbol for easy identification.



# EVOTECH Arc Flash Full Body Harness

MSA premium EVOTECH Arc Flash Harness provides outstanding arc flash protection for utility company employees and contractors who work at heights. Its rugged design looks good on the job and is 30% lighter than comparable harnesses. Made from 100% Kevlar® webbing, the EVOTECH Harness is fire-resistant, so it maintains its performance in the event of a fall after an arc flash. The inherent properties of the harness help to maintain its color, making formal inspection easy. Designed to provide more comfort for the user, our Kevlar shoulder padding has no binding edge. Our patent-pending horizontal leg strap design conforms to the user's body for increased support.

- Harness is lighter — by more than 1 lb — than comparable harnesses
- Moisture-wicking padding keeps users cooler
- Non-binding edge shoulder padding prevents neck chafing
- 100% Kevlar webbing is fire-resistant and self-extinguishing
- Reflectivity on shoulder padding provides increased visibility in low-light applications
- Patent-pending horizontal leg straps stay in place, providing more mobility and comfort
- RFID capability
- ASTM F887 tested with fire-resistant (FR) properties
- Meets CSA Z259.11 requirements
- OSHA 1910.269 & 1926 Subpart V compliant



10150143

## EVOTECH Arc Flash Harness (Web Loop) Ordering Information

PART NO.	Web Loop Configuration	Size				Leg Buckle Type			Standards		
	Back	XSM	STD	XLG	SXL	Quick-Fit	Quick-Connect	Belay Loops	ANSI Z359.11	CSA Z259.10	OSHA
<b>2</b> 10150159	■	■				■			■		■
10150160	■		■			■			■		■
10150161	■			■		■			■		■
10150162	■				■	■			■		■
<b>1</b> 10150147	■	■					■		■		■
<b>1</b> 10150148	■		■				■		■		■
10150149	■			■			■		■		■
10150150	■				■		■		■		■
10162697	■	■					■	■	■		■
10162698	■		■				■	■	■		■
10162699	■			■			■	■	■		■
10162700	■				■		■	■	■		■

Kevlar® is a registered trademark of Dupont™

## EVOTECH Arc Flash Harness (Steel D-Ring) Ordering Information

PART NO.	Steel D-Ring Configuration				Size				Leg Buckle Type			Standards
	Back	Back, Hips	Back, Chest	Back, Chest, Hips	XSM	STD	XLG	SXL	Quick-Fit	Quick-Connect	Belay Loops	ANSI/OSHA/CSA
2 10150155	■				■				■			■
10150156	■					■			■			■
10150157	■						■		■			■
10150158	■							■	■			■
1 10150143	■				■					■		■
1 10150144	■					■				■		■
10150145	■						■		■			■
10150146	■							■	■			■
10162701	■				■					■	■	■
10162702	■					■				■	■	■
10162703	■						■			■	■	■
10162704	■							■		■	■	■
2 10155823		■			■				■			■
10155824		■				■			■			■
10155825		■					■		■			■
10155826		■						■	■			■
1 10150151		■			■					■		■
1 10150152		■				■				■		■
10150153		■					■			■		■
10150154		■						■		■		■
10164009			■		■					■		■
10164010			■			■				■		■
10164021			■				■			■		■
10164022			■					■		■		■
10164023				■	■					■		■
10164024				■		■				■		■
10164025				■			■			■		■
10164026				■				■		■		■

# Workman Arc Flash Full Body Harness

MSA Workman Arc Flash Harness provides excellent arc flash protection in a sleek, black design that's lightweight and comfortable. It's the economical choice for workers needing protection for arc flash and fall arrest. The high-strength nylon is designed to maintain its integrity after exposure to an arc flash and in the event of a fall. The Workman Arc Flash Harness is a cost effective option for safety managers and contractors who need to be compliant to the latest electrical requirements without breaking the budget.

- Durable nylon material won't melt or drip in the event of an arc flash
- Y-shaped D-locator pad keeps torso straps off of the user's neck to prevent chafing
- Comes in both vest-type and crossover styles allowing user preference
- Velcro lanyard keepers for lanyard stowage when not in use
- Arc Flash symbol for easy identification
- ASTM F887 tested
- Meets CSA Z259.11
- OSHA 1910.269 & 1926 Subpart V compliant
- Optional Features: Belay Loops for Rescue; Rubber Covers



10162686



10162694

## Workman Arc Flash Harness (Steel D-Ring) Ordering Information

PART NO.	Style		Steel D-Ring Configuration		Size				Leg Buckle Type		Standards
	Vesttype	Crossover	Back	XSM	STD	XLG	SXL	Quick-Fit	Tongue Buckle	OSHA/ANSI/CSA	
10152651	■		■	■				■		■	
10152652	■		■		■			■		■	
10152653	■		■			■		■		■	
10152654	■		■				■	■		■	
10152636	■		■	■					■	■	
10152637	■		■		■				■	■	
10152638	■		■			■			■	■	
10152639	■		■				■		■	■	
10152659		■	■	■				■		■	
10152660		■	■		■			■		■	
10152661		■	■			■		■		■	
10152662		■	■				■	■		■	
10152674		■	■	■					■	■	
10152675		■	■		■				■	■	
10152676		■	■			■			■	■	
10152677		■	■				■		■	■	

## Workman Arc Flash Harness (Web Loop) Ordering Information

PART NO.	Style		Web Loop Configuration		Size				Leg Buckle Type			Standards	
	Vesttype	Crossover	Back	Back, Hips	XSM	STD	XLG	SXL	Quick-Fit	Tongue Buckle	Belay Loops	Rubber Covers	OSHA/ANSI/CSA
10152640	■		■		■				■				■
2 10152648	■		■			■			■				■
10152649	■		■				■		■				■
10152650	■		■					■	■				■
10152632	■		■		■					■			■
1 10152633	■		■			■				■			■
1 10152634	■		■				■			■			■
10152635	■		■					■		■			■
10163234	■		■		■					■		■	■
10163238	■		■			■				■		■	■
10163266	■		■				■			■		■	■
10163269	■		■					■		■		■	■
10162689	■		■		■					■	■		■
2 10162690	■		■			■				■	■		■
10162691	■		■				■			■	■		■
10162692	■		■					■		■	■		■
10162693	■			■	■					■	■		■
2 10162694	■			■		■				■	■		■
2 10162695	■			■			■			■	■		■
10162696	■			■				■		■	■		■
10152655		■	■		■				■				■
2 10152656		■	■			■			■				■
10152657		■	■				■		■				■
10152658		■	■					■	■				■
10152663		■	■		■					■			■
1 10152671		■	■			■				■			■
1 10152672		■	■				■			■			■
10152673		■	■					■		■			■
10163240		■	■		■					■		■	■
10163297		■	■			■				■		■	■
10163303		■	■				■			■		■	■
10163305		■	■					■		■		■	■
10162681		■	■		■					■	■		■
10162682		■	■			■				■	■		■
10162683		■	■				■			■	■		■
10162684		■	■					■		■	■		■
10162685		■		■	■					■	■		■
10162686		■		■		■				■	■		■
10162687		■		■			■			■	■		■
10162688		■		■				■		■	■		■



Optional features: Belay Loops or Rubber Covers

## ArcSafe® and Thermatek® Energy-Absorbing Lanyards

### ArcSafe Energy-Absorbing Lanyard Ordering Information

PART NO.	Harness Connection	Anchorage Connection	Type			Material	Standards		
			Adjustable	Single-Leg	Twin-Leg		ANSI Z359.13	CSA Z259.11	OSHA
<b>1</b> 10060139	Hitch Loop	36C	■	■		■		■	■
<b>1</b> 10060140	Hitch Loop	(2) 36C	■		■	■		■	■
<b>1</b> 10107200	Hitch Loop	36C	■	■		■	■		■
<b>1</b> 10107201	Hitch Loop	(2) 36C	■		■	■	■		■



Part No. 10107200



Part No. 10107201



Part No. 10118738



### Thermatek Energy-Absorbing Lanyard Ordering Information

PART NO.	Harness Connection	Anchorage Connection	Type			Material	Standards	
			Fixed	Single-Leg	Twin-Leg		OSHA	CSA Z259.11
10106935	36C	36C	■	■		■	■	
10107853	36C	(2) 36C	■		■	■	■	
10118737	36C	36CL	■	■		■	■	
10118738	36C	(2) 36CL	■		■	■	■	
10156246	36C	36C	■	■		■		■
10156247	36C	(2) 36C	■		■	■		■
10156248	36C	36CL	■	■		■		■
10156249	36C	(2) 36CL	■		■	■		■

**Need it NOW!** is our fall protection delivery program that's designed to get you the products you need, when you need them — **NOW!**



Products included in this program are identified by the following symbols: **1** **2**

**1** denotes Tier I product status (same day or next-day shipping) with a maximum order quantity of 100 units for priority shipping.

**2** denotes Tier II product status (shipping within 5 days) with a maximum order quantity of 100 units for priority shipping.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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