



KAPTURE[™] ELEMENT
LV4 || ENERGY ABSORBING LANYARD
ATEXWORX

USER INSTRUCTION MANUAL
NOSPARK ANTISTATIC E.A. LANYARD

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

AFL408721 and AFL408825

CE 0598

EN 355:2002, EN 1149-1:2006,
EN 1149-5:2008, EN 80079-36:2016
and EN 80079-37:2016

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Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

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

- 1. INTRODUCTION:** The Lanyards are classed as a Personal Protective Equipment (PPE) by the European PPE Regulation (EU) 2016/425 and has been shown to comply with this Regulation through the Harmonized European Standard EN 355:2002, ATEX 2014/34/EU, EN ISO 80079-36:2016, EN ISO 80079-37:2016, EN 1149-1:2006, EN 1149-5:2008 & VG11/PFE63 (additional anti-static strength test.)

These Lanyards are designed to minimize the risk of/provide protection against the danger of falling from heights. However, always remember that no item of PPE can provide full protection and care must always be taken while carrying out the risk related activity.

- 2. DESCRIPTION:**

PRODUCT CODE	CATEGORY	PRODUCT DESCRIPTION	MAX LOAD RATED
AFL408721	Element	Energy Absorbing Single leg Antistatic lanyard	140kg
AFL408825	Element	Energy Absorbing Double leg Antistatic lanyard	140kg

- 3. PERFORMANCE AND LIMITATIONS OF USE:** The lanyards have been tested in accordance with EN 355:2002, ATEX 2014/34/EU, EN ISO 80079-36:2016, EN ISO 80079-37:2016, EN 1149-1:2006, EN 1149-5:2008 & VG11/PFE63 (additional anti-static strength test) & have achieved following performance levels:

EN 355:2002 test	Result
Clause 4.1 Design and Ergonomics Clause 4.2 Materials & Construction Clause 4.3 Static preloading Clause 4.4 Dynamic performance Clause 4.5 Static strength	Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement Achieves required performance requirement [As per VG11/PFE63 (additional anti-static strength test) for AFL408825]]

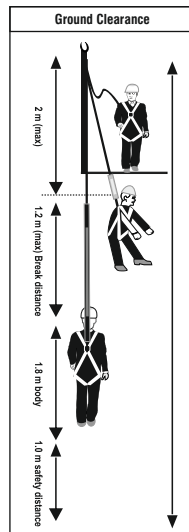
The NoSpark Lanyards are antistatic in nature and are ATEX Certified. They have been designed to offer the perfect solution for safe working at height in explosive atmosphere. The Antistatic Material prevents the risk of an Electrostatic discharge igniting the explosive atmosphere thus allowing the user to work with complete safety.

- 4. POSSIBLE USAGE :** These lanyards when used as a component of a fall arrest system guarantees the full ability for the safe arresting of a fall from a height by reducing the Breaking Force measured at the anchorage point or the anchorage line to less than 6 kN. It can be used in conjunction with a full body harness in addition to the above the lanyards have been tested to be safe if the fall happens on to the edges of the structure.

- 5. INSTRUCTIONS TO BE FOLLOWED BEFORE USE:** Inspect the NoSpark lanyard for any rupture of the webbing. Do not use the lanyard in case of any rupture or defectiveness. Ensure the compliance with recommendation for use as applicable to the combination with other components of the system and is specified on the identification card for the lanyard system or component. It has to be made sure that the connector used Karabiner is correctly attached to the attachment element and that it is locked and that it is as per EN 362:2004. Ensure before & during use that a rescue plan is in place to rescue the user after a fall has occurred.

Note: The lanyard should be a personal property of its user. In use, the lanyard should be kept taut and free movement is restricted to a max. of 0.6 m.

- 6. ANCHORAGE INSTRUCTION:** The strength of the anchor device should be > 18kN (for Textile) & 12kN (for Metal).



- Note:**
- a. If the lanyard/energy absorber is used with a Class C anchor device pursuant to EN 795 with a horizontal flexible anchor line, the deflection of the anchor device must also be taken into account when determining the necessary clearance beneath the user. Pay attention to the details in the instructions of use of the anchor device.
 - b. After a fall over an edge there is a risk of injuries during capture if the falling person knocks against parts of the building or construction.
 - c. The lanyard/energy absorber has been successfully tested for horizontal use and a resulting simulated fall over an edge.

7. IMPORTANT NOTICE :

- Total length of a sub systems with a lanyard including an energy absorber, terminations and connectors shall not exceed 2m.
- The strength of the anchor device should be greater than 18KN (for Textile) & 12KN (for Metal) and the anchor point should be situated above the user's head.
- Connect the lanyard to the anchorage point using the connector provided at one end. (If connector not provided, use Karabiners complying to EN 362:2004). The other end on the side of the energy absorber should be connected to the attachment element of the full body harness.
- To optimize protection, in some instances it may be necessary to use the lanyard with suitable other components. In this case before carrying out the risk related activity, consult your supplier to ensure that all components are compatible and suitable for your application.
- The arrest distance should be double the total length of the lanyard plus 1.75m break distance to allow tearing of the webbing inside.
- A steel bar with a radius of $r = 0.5$ mm with no burrs was used in these tests. On the basis of this test, the lanyard with energy absorber is suitable for use over similar edges such as rolled steel profiles, wooden beams or a clad, rounded proof parapet. Notwithstanding this test, the following must be taken into account with a horizontal or oblique use where there is a risk of falling over an edge.
- If the risk assessment carried out before the start of work shows that the fall edge is a particularly "sharp" and/or "not free from burrs" edge (e.g. unclad proof parapet or sharp concrete edge), then
 - corresponding precautions must be taken before the start of work to rule out the risk of falling over the edge or
 - an edge protection should be mounted before the start of work or
 - you should contact the manufacturer.
- The anchor point for the lanyard/energy absorber may not be below the user's stand level (e.g. platform, flat roof).
- The deflection at the edge (measured between the two legs of the fastener / mobile guide) must be at least 90°.
- The necessary free space beneath the edge must be at least 6 m.
- The lanyards should only be used by a trained and/or otherwise competent person or the user should be under the direct supervision of such a person.
- The lanyard must always be used in such a way that there is no slack rope. If the lanyard is equipped with a length adjustment device, this may only be used if the user is not moving in the direction of the fall edge.
- To prevent a pendulum fall, the working area and lateral movements from the median axis on both sides should be limited in each case to a max. of 1.50m. In other cases, no individual anchor points should be used but rather a Class C or D anchor device pursuant to EN 795.
- Special rescue measures are to be stipulated and trained in the event of a fall over an edge.

8. MATERIAL USED : Energy Absorbing Kernmantle Rope Lanyards - Anti Static coated Polyester webbing

- Since all lanyards are made of polymers, the performance of which gets affected by temperatures, effect of sharp edges, electrical conductivity, chemical reagents, cutting, abrasion, UV degradation etc, it is advised to consult your supplier for use in above extreme conditions.

9. INSTRUCTIONS FOR MAINTENANCE :

- **Cleaning Procedure** - In case of minor soiling, wipe the lanyard with cotton cloth or a soft brush. Do not use any abrasive material. For intensive cleaning wash the lanyard in water at a temperature not more than 40°C using a neutral detergent (pH7). The washing temperature should not exceed 40°C. Do not use acid or basic detergents.
- **Drying Procedure** - If the lanyard becomes wet, either from by in use or when due to cleaning, it should be allowed to dry naturally and shall be kept away from direct heat.

10. **STORAGE & TRANSPORT:** When not in use, store the lanyard in a well-ventilated area away from extremes of temperature. Never place heavy items on top of it. If possible, avoid excessive folding and preferably store it hanging vertically. If the product is wet, allow it to dry fully before placing it into storage. It is preferred that the product be transported in its original packing. However if not available, it may be stored in an air tight bag & transported.
11. **INSTRUCTIONS FOR REPAIR:** If the product becomes damaged, it will NOT provide the optimum level of protection, and therefore it should be immediately removed from service. Never use the damaged product. Repairing is permitted, provided that it is either done by the manufacturer or a competent repair centre or individual approved by the manufacturer.
12. **PERIODIC EXAMINATION :**
- The lanyards need to periodically examined because the safety of the user depends upon the continued efficiency & durability of the lanyard.
 - It is important to examine it at least once in every 12 months.
 - Periodic examination is to be conducted by a competent person and strictly in accordance with the manufacturer's periodic examination procedures.
 - Periodic examination also requires checking the legibility of the product markings.
13. **WARNING :**
- It is essential to verify that the medical condition of the user is fit to use the lanyards in normal & emergency use.
 - Do not make any alterations or additions to the equipment without the manufacturer's prior written consent and that any repair shall only be carried out in accordance with the manufacturer's procedures.
 - While using the lanyard, ensure that the fall is not more than 2m i.e. the distance between the anchor point & the final position of the user after the fall has occurred.
 - Lanyard should be the personal property of its user.
 - It is important to check before use any dangers that may arise by the use of combinations of items of the equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
 - Carry out a pre-use check of the lanyard, to ensure that it is in a serviceable condition & operates correctly before it is used.
 - Inspect all the rope or webbing of lanyard for cuts/abrasion marks. Also check all connectors of the lanyard for proper mechanical functioning & effects of corrosion or mechanical deformation if any on parts of the connectors in the lanyard.
 - Withdraw from use any lanyard for which any doubt arises about its condition for safe use or in the event a fall has been arrested by it.
 - If the lanyard is used in a fall arrest system, it is advisable to connect only to the dorsal attachment D-Ring of the harness.
 - If lanyard is used in fall arrest system, it is essential for safety that the anchor device or anchor point is always positioned, and the work carried out in such a way, as to minimize both the potential for falls and potential fall distance. Ensure that the anchor point is above the user's head.
 - Only a full body harness complying to EN 361:2002 shall be used as a body holding device within the fall arrest system.
 - If used within fall arrest systems, it is essential to verify the free space required beneath the user at the work place before each occasion of use, so that, in the case of a fall, there will be no collision with the ground or other obstacles in the fall path.
 - If the product is resold outside the original country of destination, the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.
 - Ensure the Medical condition of the user does not affect his safety in normal and emergency use.
 - A rescue plan shall be in place to deal with any emergencies that could arise during the work.
 - It is essential for the safety of the user that if a product is re-sold outside the original country of destination the reseller shall provide instructions for use for maintenance, for periodic examination and for repair in the language of the country in which the product is sold.
 - The equipment shall not be used outside its limitation, or for any purpose other than that for which it is intended.
 - The device should be used with appropriate combinations only. The user should not make any combination which compromises safe function of any other devices used in combination or entire fall protection system or rescue system.
 - Edge tests had been carried out in controlled environment the users competence & selection of usage place is always advisable.

14. HOW TO DISPOSE A LANYARD: When the lanyard becomes unfits or in case of any wear and tear, dispose the lanyard immediately.

Follow the steps for Disposal:

- Segregate the equipment in three different crates for placing components in them respectively as- Textile, Metal and Plastic.
- Hold the lanyard from Dorsal D-ring.
- Inspect the wear & tear present on the lanyard.
- Now, using a sharp pair of scissors first cut the Textile and dismantle the lanyard.
- Now remove the metal & plastic components separately from the lanyard.
- Put the Textile, Plastic & Metal components in their respective plastic crates.

PRODUCT MARKING:

The Energy Absorber Lanyard is marked with:

- (i) The CE mark showing that the product meets the requirements of the European PPE Regulation (EU) 2016/425
- (ii) Identification of the manufacturer
- (iii) Type or product code
- (iv) Month and Year of Manufacture
- (v) UID for Traceability
- (vi) Material
- (vii) Length
- (viii) Number of the standard / Atex Marking
- (ix) Pictogram that indicates rated load
- (x) Number of the ongoing assessment body
- (xi) Read the instructions carefully

MARKING

KSTRONG®
UNRIVALED SAFETY.
ATEXWORK
ENERGY ABSORBING
WEBBING LANYARD

(iii) Model : AFL408721
(iv) DOM : MM/YYYY
(vi) Material : Polyester
(vii) Length : 2.0 m
(v) UID : XXXXXXXXXXXX

CE 0598 (x)

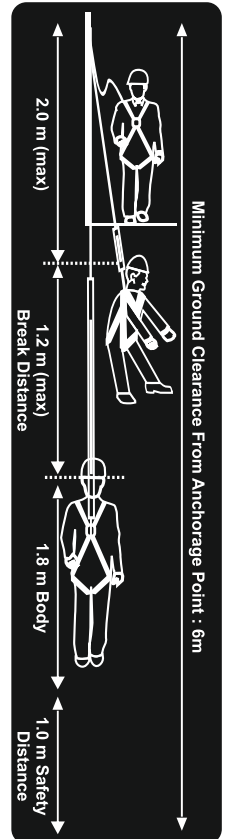
(viii) EN 355:2002, EN 1149-1:2006,
EN 1149-5:2008,
EN 80079-36:2016, II 2 G
Ex h IIc T6 Gb

"POTENTIAL ELECTROSTATIC CHARGING
HAZARD - SEE INSTRUCTIONS"

(ix) **140 kg**
Max. Rated Load
(Including all tools)

(xi) **QR CODE**

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Certification Body:

SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)

Ongoing Assessment Body:

SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland (Notified Body 0598)

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



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