

Instruction manual for connecting lanyards certified according to EN 354:2010

CONEX 12



Kernmantle rope Ø12mm

CONEX 14



Kernmantle rope Ø14mm

SCOPE (RED / WHITE)



Twisted rope Ø16mm

Thank you for choosing VERTIQUAL®! You have purchased a high quality product that will reliably protect you and will be your companion for a long time when working at heights and depths. This manual must be read and understood before using the product! This product will be used with other equipment (components) thus forming a system for working at heights. Please refer to the instruction manual of each component in your system for compatibility and correct use! Following these instructions accordingly is essential for your safety. Failure to do so can result in serious or even fatal accidents! Keep these instructions together with the product, accessible to all users, so they can consult them whenever is needed!

WARNING! These instructions are a basic comprehensive guide to the safe use of the purchased equipment. They contain general information about the product, intended to help the user, but cannot cover all the situations that may occur in the daily activities and cannot in any case replace the specialized training courses for safety at heights. This PPE against falls from heights can only be used by well-trained users, who are familiar with the relevant legislation and who have successfully completed a special safety training course for working at heights.

WARNING! For works with risk of falling from heights or in depths, a risk assessment must be carried out in advance in accordance with current regulations and legal provisions (EN standards or specific national rules) that will provide adequate measures for safety and rescue!

WARNING! Instructions for use are updated when technical or legislative changes occur. The latest version of the instructions overwrites previous versions and is the only valid version. Please make sure you follow the instructions of the most recent version. You can download the most recent instructions from our website www.vertiqualsafety.com by accessing the section of each product. For help or additional questions, please contact us at office@vertiqualsafety.com or Tel. (+40) 0365/882143.

WARNING! The user must be medically fit and capable to ensure his own safety and act accordingly in possible emergency situations! Seek medical approval according to the national legislation in force!

WARNING! If the product is re-sold outside the original country of destination, the reseller must provide these instructions manual in the language of the country where the product will be used.

DESCRIPTION

The **CONEX / SCOPE** connecting lanyards are made of high tensile polyamide ropes with sewn / spliced terminations and protective thimbles. The CONEX type can be manufactured from Ø12mm or Ø14mm kernmantle ropes and SCOPE is manufactured from Ø16mm twisted rope. The lanyards can be supplied without connectors or can be equipped with EN 362 certified connectors!

FIELD OF USE

Connecting lanyards belong to the category of personal protective equipment (PPEaF) and are intended to protect the user while working at heights or in depths. These products must be used in usual environments with temperatures between -30°C and +50°C, without potentially explosive atmospheres, far away from flames, sparks or hot metal splash. Avoid contact with sharp edges, electricity, chemicals, corrosive solutions and substances, excessive heat, oils, paints or any other contaminants. The structures used for anchoring have to meet the requirements of EN 795:2012, must have NO sharp edges and must be capable to withstand minimum 12 kN for full metallic anchors and 18 kN for any other types of anchors. The shape of the structure must NOT allow accidental slippage or disconnection of the lanyard or carabiner.

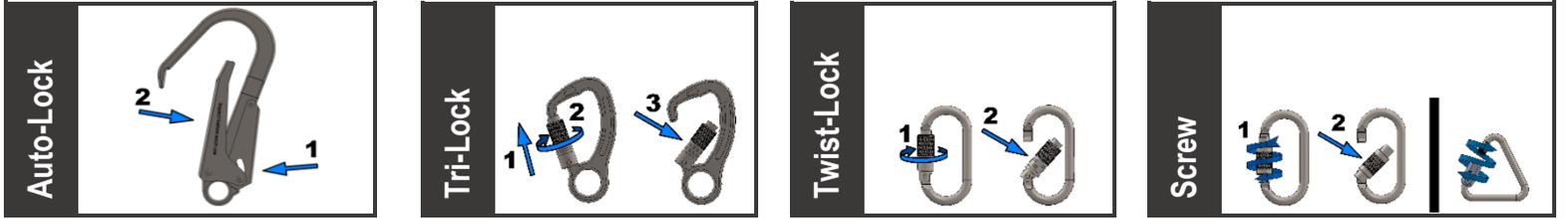
•These lanyards are intended to be used in **restraint systems**. This system will prevent the user to reach areas where risk of falling exists. The user will chose the length of the lanyard in such way that the he or she cannot reach any area where a fall from height can occur! Warning! If risk of falling from height cannot be completely eliminated using a restraint system, an additional fall arrest system must be used! Warning! For a fall arrest system, suitable components must be used, including an EN 361 full body harness! Check the instructions of every component used, before starting the work! If there are any doubts seek advice from the manufacturer or distributor!

•These lanyards can be used as shock absorbing lanyards (in **fall arrest systems**) if a suitable energy absorber (EN 355) is added and the length of the assembly (lanyard + energy absorber + all connectors used) does NOT exceed 2m! Warning! For a fall arrest system, suitable components must be used, including an EN 361 full body harness! Before starting the work make sure there is enough free space below the workplace! Check the instructions of every component used, before starting the work! If there are any doubts seek advice from the manufacturer or distributor!

WARNING!

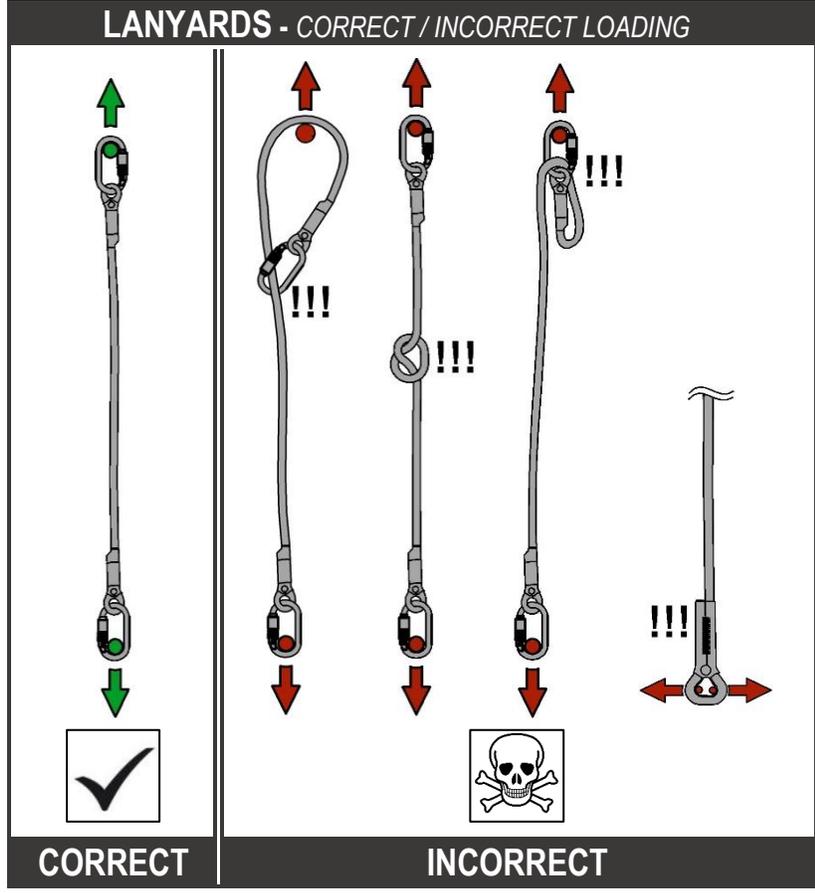
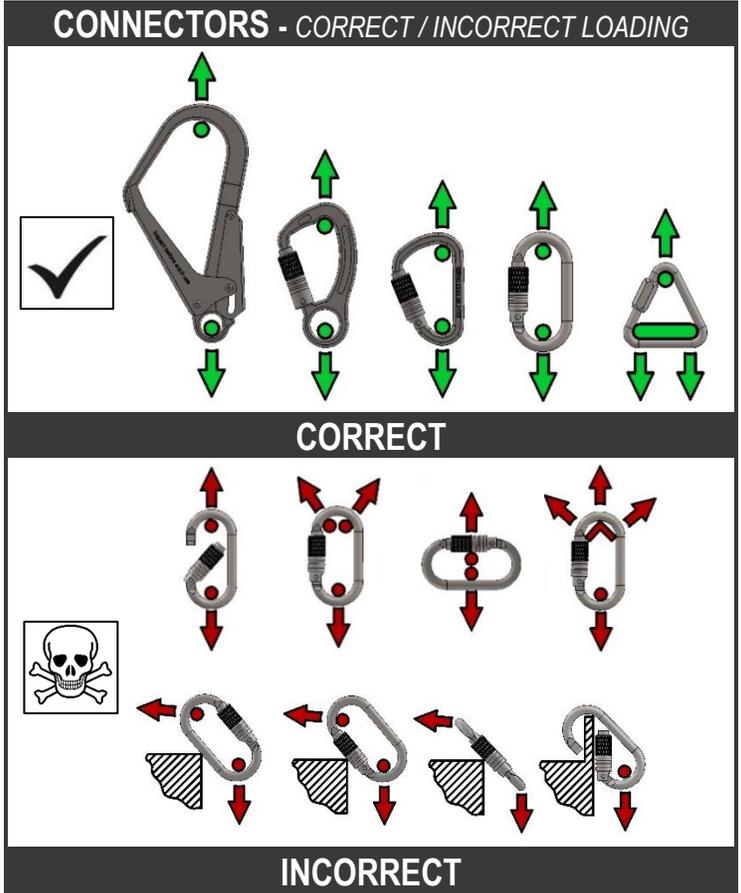
- Always keep the lanyard taut during use! Slack in the rope must be minimised near a fall hazard zone!
- These lanyards are NOT designed to be used choke hitched (e.g. making a girth hitch using the end loops / end connectors of your lanyard)!
- Make sure that the lanyard or connectors will NOT come in contact with sharp edges during use! Take all necessary precautions to avoid contact with sharp edges or any other factor that will damage your equipment! Seek advice from the manufacturer if there are any doubts!

CONNECTORS: GATE OPENING / CLOSING



WARNING! If the lanyard is equipped with **SCREW locking** carabiners, please make sure that the gate is fully closed and tightened correctly, before using it! Note: SCREW locking carabiners shall NOT be used at workplaces where the user must connect/disconnect frequently! If the lanyard is equipped with **AUTO-LOCK, TRI-LOCK** or **TWIST-LOCK** carabiners, make sure that the gate is fully closed and secured before use.

Below some examples of correct / incorrect use of carabiners and lanyards are presented. Please note that these are the most encountered situations in use, but a full list of all possible incorrect uses cannot be covered by this manual. Use only certified components for your system and read their instructions carefully, before use!

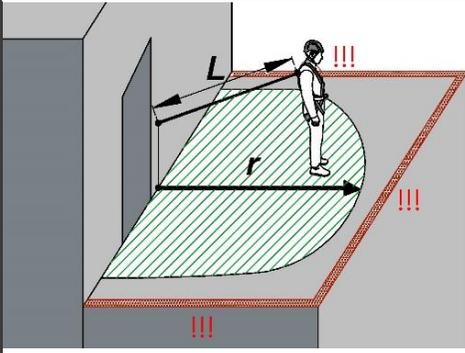


WARNING! This product is developed as a Personal Protective Equipment against Fall (PPEaF). Bringing modifications to it or assigning other uses are strictly forbidden! Each user shall use his own PPEaF as well as his own rescue equipment. The user must know the performances and limitations of his equipment! In case of uncertainty regarding the equipment seek advice from the manufacturer or distributor.

RESCUE! A rescue plan must be made before starting the work at heights or depths! It is mandatory to set up and know the specific rescue plan for every situation and to have designated personnel and appropriate means of intervention!

APPROVED USES:

LANYARD ONLY (restraint systems)



The **restraint system** prevents the user to reach areas where the risk of falling exists.

Connect one end of the lanyard to a suitable anchor point and the other end to the attachment point of a certified harness (EN 358 / EN 361 / EN 813). Use only EN 362 certified connectors to attach the lanyard and always take into account the length these connectors add to your lanyard!

L = maximum length of the lanyard (including connectors used)

r = the distance from the anchor point to the closest area with risk of falling

Before starting the work, make sure that the maximum length of the lanyard (including connectors used) is shorter than the distance to the closest area with risk of falling $L < r$

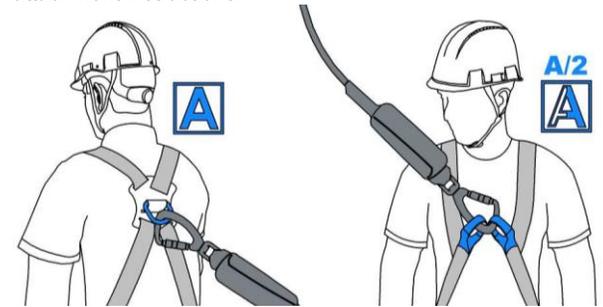
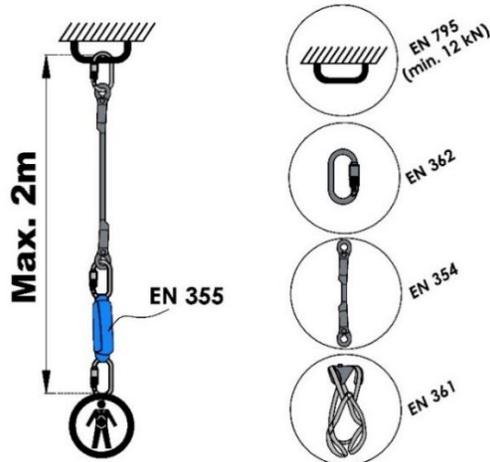
LANYARD + ENERGY ABSORBER (fall arrest systems)

These lanyards can be used also as a shock absorbing lanyards (in **fall arrest systems**), only if an energy absorber (acc. to **EN 355**) is added!

To connect these components, use EN 362 certified carabiners, making sure that **the length of the assembly does NOT exceed 2m!**

Before starting the work, make sure there is enough free space below the workplace!

Use only certified full body harnesses (EN 361)! Connect the absorber end to an attachment point on your harness that is marked with "A" or „A/2". These are the only points approved for fall arrest. The points are usually metal rings or textile loops and in case of A/2 marking, the two points need to be connected together! Refer to your full body harness manual for complete attachment instructions!



Read carefully the instructions of each component of your system! In case of uncertainty regarding the equipment seek advice from the manufacturer or distributor!

WARNING! Before each use a visual inspection and functional test must be performed by the user!

Beware: damages can be inflicted without your knowledge (e.g. negligence of a coworker) and it is important that a visual check is performed before each use!

- The user must monitor their integrity, functionality and correct settings before, during, and after using their PPE!
- Avoid contact of the product with abrasive edges, sharp edges, greases and oils, corrosive chemicals, heat, flames, sparks and incandescent metal splash.
- This products can be used only by trained persons! Beginners may use it only under direct supervision of trained and experienced users!
- It is forbidden to intentionally or accidentally apply mechanical shocks to these products (eg. use for material handling or securing goods during transport etc.)!

The equipment must be withdrawn from use if:

1. The marking/label is missing or is unreadable.
2. **DAMAGE has been identified (incisions, cuts, tearing, worn seams, discoloration, hardened or thinned areas, burns, melted areas, rust, plastic deformations) if any other abnormalities of the parts or structure have been found or if the product had suffered any changes compared to its original condition!**
3. Contact with paints or unknown chemicals had occurred (irreversible contaminations).
4. The equipment was involved in a fall arrest or had been subjected to heavy loading.
5. The integrity of the equipment is questionable and the inspection log is incomplete or missing.
6. The equipment was in service longer than **10 years**.

WARNING! The equipment must be immediately withdrawn from use if it was involved in a fall incident or was subjected to heavy loading! If there is any doubt regarding the condition of the equipment **DO NOT USE it!** Instead, send it to the manufacturer or to an authorized representative of the manufacturer for a professional evaluation!

The SERVICE LIFE * of PPE against falls, made of textile materials is 6-8 years under normal conditions, but a **maximum of 10 years** * from the date of first use. The date of the first use must be noted in the logbook, otherwise the date of manufacture is considered as the date of the first use. **The storage** of new, unused products under optimal conditions (darkness, dryness, original packaging, constant temperature, without chemical vapors, etc.) should not exceed **2 years**. * PPE that belongs to a single user, has not been used excessively and not often, has been subjected to regular checks by experts, has been found to be "safe" and recorded in the test book, has a complete product history, has not been involved in a fall, is carefully treated and cared for, have been stored in accordance with regulations, have not come into contact with oils, fats or aggressive chemicals, (attention - incomplete list) can remain in use for up to 10 years. Intensive use, heavy and demanding working conditions, incorrect application, incorrect maintenance and care can greatly reduce the service life of the equipment. Certain events, such as falls, high exposure to heat, exposure to corrosive chemicals, can limit the use of your equipment to a single time. A generally valid, binding statement about the duration of use of textile PPE cannot be made, as this depends on a large number of factors such as UV light exposure, working conditions, contact with various substances, etc. The service life of the equipment ends when one of the cases mentioned in the previous chapter occurs or when the inspector / certified expert decides this on the basis of other facts. The theoretical total service life of textile PPE against falls (Storage time + Service life) is limited to a maximum of 12 years from the date of manufacture.

