

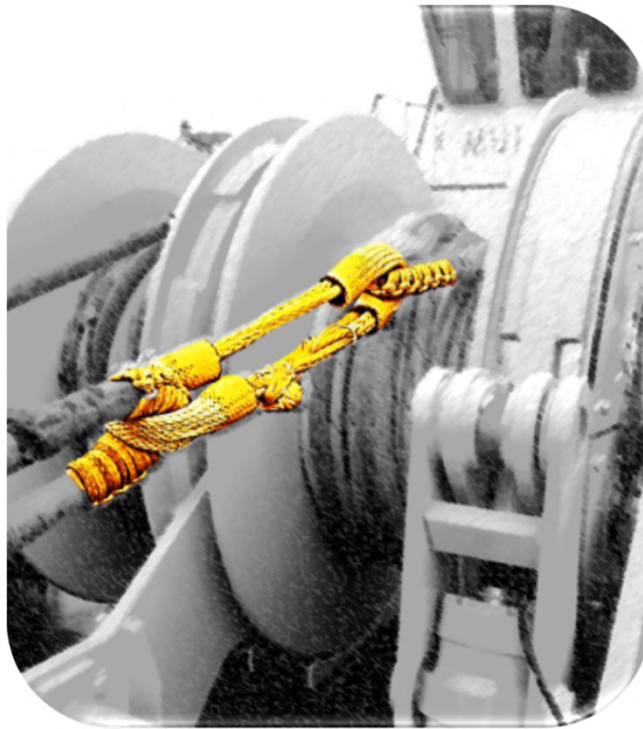


MARITIME



# Lankhorst | *Ropes*

## LANKO<sup>®</sup>NECT



Installation Instruction

## LANKO<sup>®</sup>NECT



### Introduction

This document provides guidelines for the installation of the Lanko<sup>®</sup>nect:

Step 1 – Protecting the eye

Step 2 – Making the connection

The Lanko<sup>®</sup>nect is a synthetic fibre rope connection for the main tow line that replaces a conventional cow hitch, shackle or similar hardware, providing tug operators with a quicker and safer connection during towing.

The Lanko<sup>®</sup>nect can be installed on a wide range of synthetic rope types including Dyneema<sup>®</sup> (Lanko<sup>®</sup>force) and polyester (Strongline). In line with industry safety procedures, Lankhorst strongly recommends protection for the rope eye where necessary.

## LANKO®NECT

## Step 1 - Protecting the eye(s)

Before the Lankonect will be installed the eyes of the ropes to be connected should be protected first.

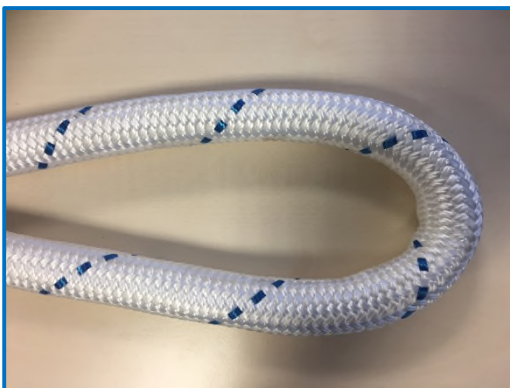
Therefore Lankhorst offers a specific protection set, which consists of materials for protecting two eyes.

Per eye the following materials are needed:

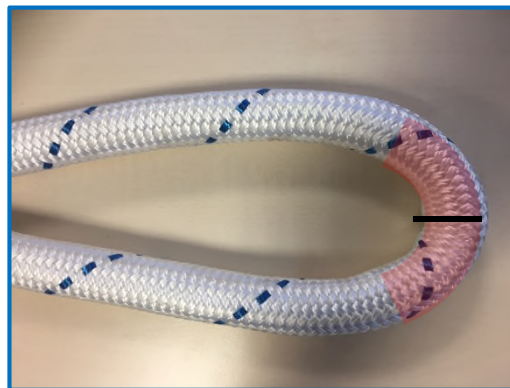
- 1 x 20 meter Ø10mm Dyneema rope 12-strand , for making the protection loops in the bearing of the eye
- 1 x Dyneema webbing inlet, for underneath the protection loops in the bearing point of the eye

### Instructions

- Mark the exact middle of the eye with a black marker.
- Place the Dyneema webbing inlet on the (inside!) of the bearing point of the eye (red area, picture 2) and secure it with a small rope into position (picture 3).
- Make sure the Dyneema webbing inlet is tightly installed on the inside of the bearing point of the eye. Also make sure its covering minimum more then half of the rope circumference (as shown with the blue line in picture 4), to prevent cutting in of the connection rope.



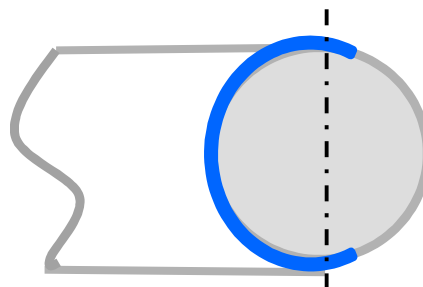
picture 1



picture 2



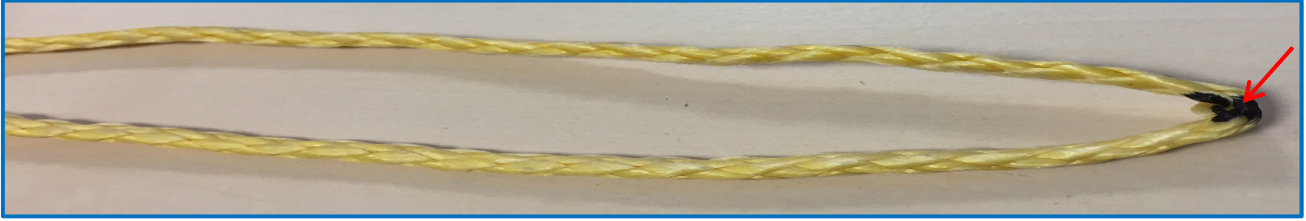
picture 3



picture 4

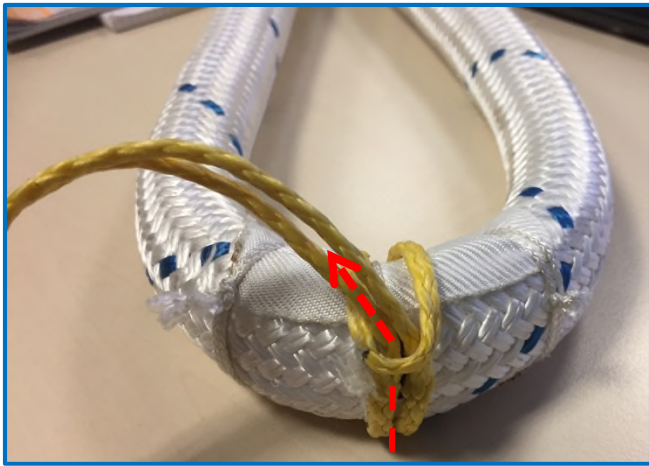
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- Double the 10mm Dyneema rope and mark its middle point (picture 5).

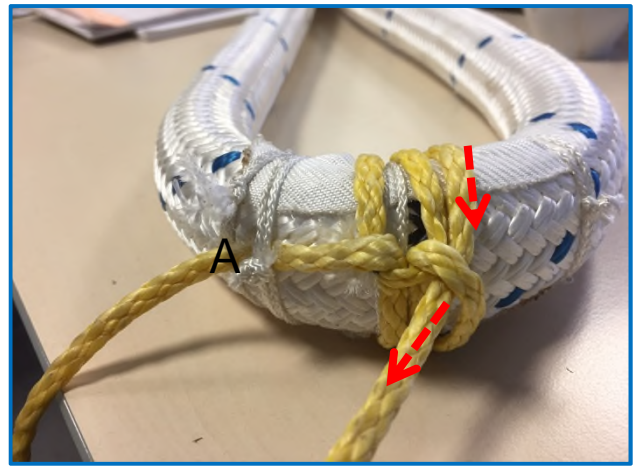


picture 5

- Position the doubled rope on the middle point of the eye bearing point and pull the two outer ends trough it (towards yourself, see picture 6).

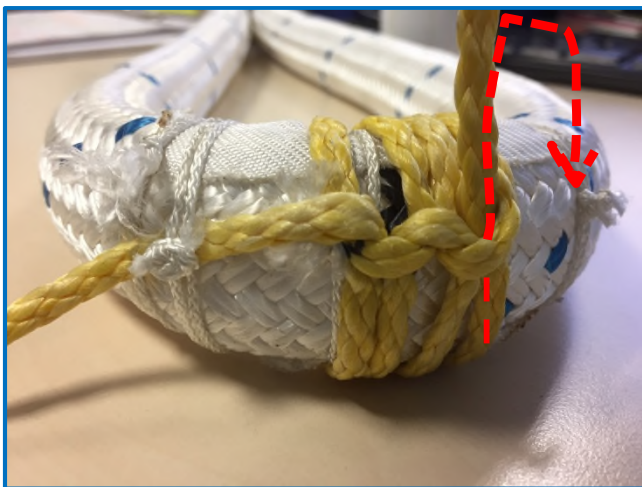


picture 6



picture 7

- Secure one end of the outer ends (see A-picture 7) and start to make a loop with the other end around the rope, take the outer end trough the loop just created and pull tight.



picture 8



picture 9

- Now make a loop in opposite direction (picture 8), pull the rope end through it and again pull tight, again make a loop in the opposite direction, pull the rope end trough it and pull tight, continue this process until the wanted area is covered up (picture 9).

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- Before pulling tight the last loop, first put the rope end underneath this loop, pull tight and finish with a knot. (picture 10, 11 & 12)



*picture 10*



*picture 11*



*picture 12*

- Finish the other half of the protecting loops in the same manner.



*picture 13*

- The protective loops are now finished (picture 13).

## LANKO<sup>®</sup>NECT

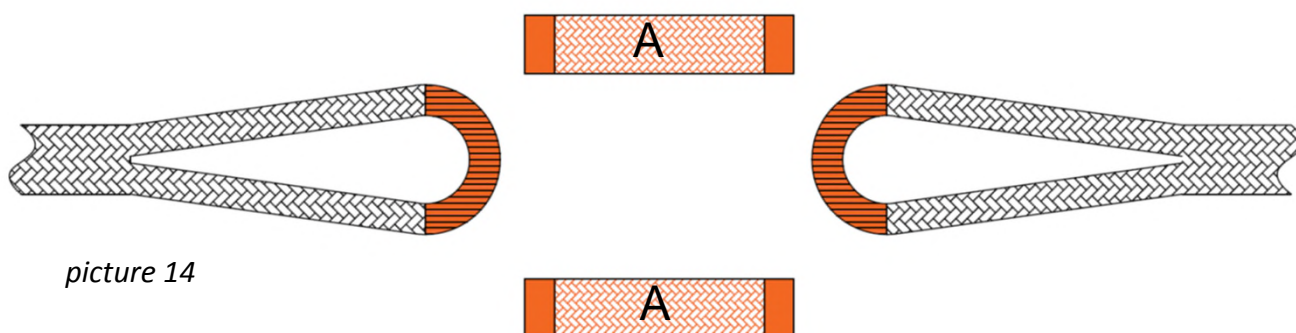
## Step 2 – Making the connection

As soon as the eyes of the ropes to be connected has been protected (Step 1), the Lanko<sup>®</sup>nect itself can be installed. The Lanko<sup>®</sup>nect consists of:

- 1 x rope length Dyneema with on one side an eye and on the other side a knot
- 2 x Dyneema Defender sleeves to protect the bearing points

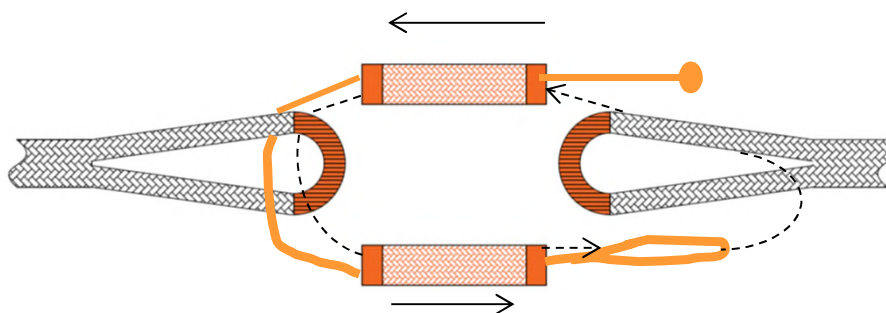
### Instructions

- Place the protective Dyneema Defender sleeves(A) in between their final bearing point.

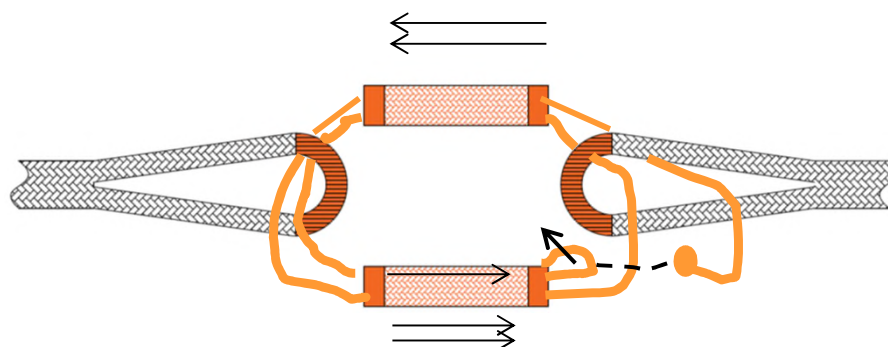


picture 14

- Reeve the connection rope through the eyes and sleeves until the desired number of loops is reached. In this example 2 loops/4 carrying rope parts.



picture 15

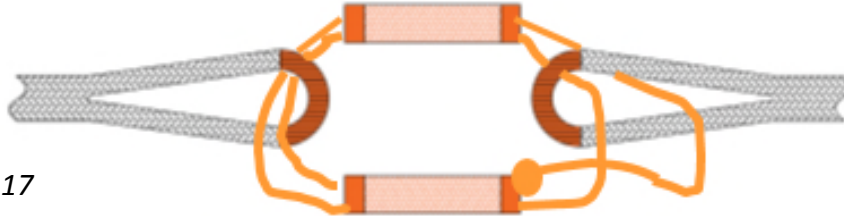


picture 16

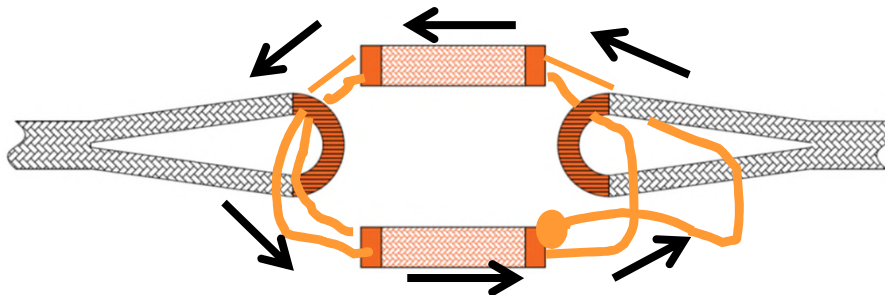
## LANKO<sup>®</sup>NECT

- Open up the eye, pull the knot through, and close the eye again.

picture 17



- Now gently shift around the lashing and sleeves, until the sleeves are positioned in both eye bearing points.



picture 18

- Make sure the rope parts and sleeves are equally divided before starting and gently load up the Lanko<sup>®</sup>nect when used for the first time.



- The Lanko<sup>®</sup>nect is now ready to use.



### Warning



Please be aware that there will be a higher risk of accidents when the Lanko<sup>®</sup>nect is worn out, overloaded, misused, damaged, improperly maintained or abused.

Inspect all Lanko<sup>®</sup>nect items on regular bases. Assure if every item stays correctly in its original position, the protective Ø10mm Dyneema loops might shift slightly out position over time and if so, it need to be tightened/positioned again.

Inspect for possible abrasion/cutting/ fusing damage.

In cause of any doubt always consult Lankhorst Ropes for further advise.