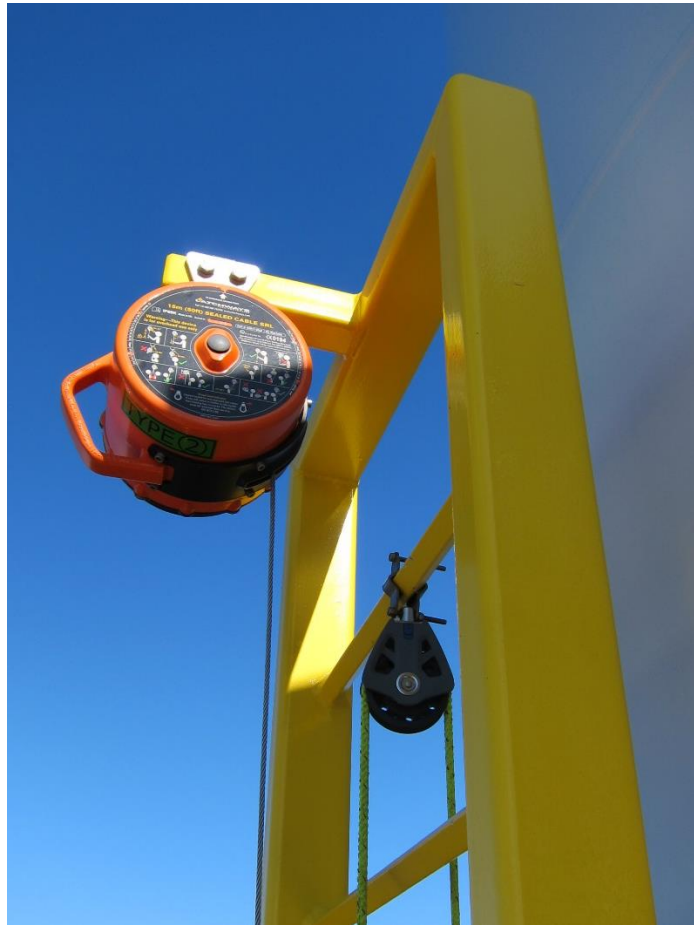


## Latchways Loop Tether Line Tethering solution for ManSafe® Sealed SRL



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# Installation Instructions

Please note that the Tether Line is an aid to retrieve the SRL's user attachment point and does not form part of the fall arrest system – If in doubt, when installing or using the system, please contact Latchways plc.

- Ensure all tools are present before carrying out the installation
  - 1 x 9 mm Spanner
  - 1 x 10 mm Spanner/Wrench
  - 2 x 17 mm Spanner/Wrench
  - 1 x 3 mm Hex Allen key
  - 1 x 5 mm Hex Allen key
  - 1 x 6 mm Hex Allen key
  - 1 x Knife & Electrical tape
  - 1 x Hot Knife
  - 1 x Pliers
- Ensure all tether line components are present (as supplied by Latchways)
  - 1 x Upper Pulley assembly, assembly shall include:
    - 1 x Tether line pulley
    - 2 x Tether line brackets w/ rubber pads (one bracket is threaded)
    - 2 x M6 bolts
    - 2 x M6 Nyloc nuts
    - 2 x Anti-loss washers
  - 1 x Lower Pulley assembly, assembly shall include:
    - 1 x Tether line pulley
    - 2 x Tether line brackets w/ rubber pads (one bracket supports the pulley)
    - 2 x M10 bolts
    - 2 x M10 nuts
    - 4 x M10 washers
    - 2 x M10 spring washers
    - 1 x M8 bolt
    - 1 x M8 nut
    - 2 x M8 washers
    - 1 x M8 spring washer
  - 1 x 15 m/25 m Polyester rope tether line, terminated at one end with an eyelet
  - 1 x Stainless Steel Swivel Shackle
  - 2 x Cable ties
  - 1 x Extension wire, which includes
    - Stainless steel wire weak link, with 2 x D-shackles
    - Stainless steel maillon rapide
  - 1 x Tether line clamp w/ clamping bolt

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# Installation Instructions

## 1. Attaching the pulley assemblies to the access ladder of the wind turbine

Please note that there are 2 different pulley assembly brackets and they MUST be fitted in the correct location on the ladder (see below for correct type)

- a. Attach the Upper pulley assembly to the centre of the uppermost rung, ensuring that the pulley is hanging below the highest rung.
- b. Using the 5mm Allen (hex) key – ensure both M6 bolts are tightened up evenly, to give an even contact onto the rung. (Note – one side of the pulley bracket is threaded, which shall be located at the back of the ladder).
- c. When firmly secured, fasten M6 Nyloc's to M6 bolt threads and using a 5mm Allen (hex) key and 10mm Spanner, fully tighten and lock sufficiently – ensure assembly is rigidly fixed.
- d. Attach the Lower pulley assembly to the centre of the nearest rung that is 2 metres above Lowest Astronomical Tide (L.A.T.) for boat landing ladders and on the bottom rung for upper ladders. Using 2 x 17 mm spanners tighten fully and ensure that the assembly is rigidly fixed. The pulley must point upwards with the chosen rung below it.
- e. Make sure both blue pulley buttons are in the 'locked' position to ensure the pulleys do not rotate (as pictured below).



Upper pulley assembly



Lower pulley assembly

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## 2. Feeding the rope tether line onto the pulleys

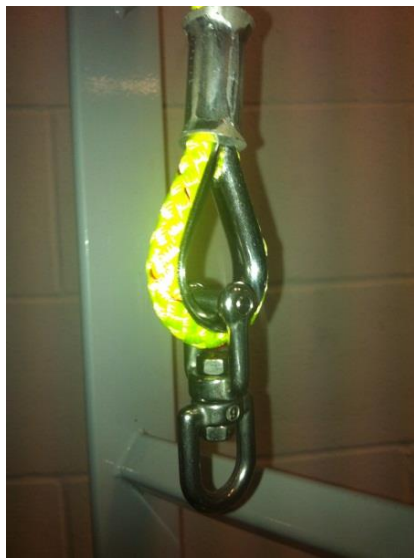
- a. Ensure entire length of tether line supplied is free from knots and tangling before installing
- b. Feed the 'non-eyelet' end of the tether line through the top pulley from front to back
- c. Pull the tether line down and pass the 'non-eyelet' end through the bottom pulley from back to front.





## 3. Connecting the stainless steel swivel shackle

- a. Attach the stainless steel swivel shackle into the eyelet terminated end of the rope tether line.
- b. Using a 3mm Allen (hex) key – ensure that the bolt of the swivel shackle is fully tightened.
- c. Feed the 'non-eyelet' end of the tether line, through the tether line clamp and then through the other 'D' shape of the swivel shackle.
- d. Then pass it back through the tether line clamp and pull the slack through.
- e. Push the tether line clamp as close to the eyelet as possible.
- f. Pull the tether line hand tight, removing any slack from the system – ensure that the tether line freely moves up and down.
- g. Tighten the tether line clamp bolt using a 6 mm Hex Allen key.



## 4. Terminating the tether line

- a. Cut off the excess end of the tether line using a hot knife, or other suitable rope sealing device, leaving approximately 100mm.
  - i. Another method, is to tightly bind the rope tether line with electrical tape at the point of the cut. Cut the rope with a sharp knife through the tape. Heat seal ends and then remove the tape.
- b. Secure to the main tether line using 2 cable ties
- c. Cut off the excess cable tie using pliers, cutting cleanly to avoid any sharp edges.



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## 5. Connecting the extension line

- a. Attach one end of the extension line to the tether line using the maillon rapide
- b. Tighten the maillon rapide with the 9 mm spanner
- c. Connect the other end of the extension line to the SRL via the sacrificial (weak) wire link and D-shackle, into the rotating arm, located above the user attachment point.
- d. Tighten the D-shackle with a 3 mm Allen key.



**Test full system, ensuring it freely runs up and down the full length of the ladder as required.**

**The Tether Line system is not designed to retract back on its own and will require guidance when returning the cable back into the SRL housing after use.**

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