



Simplex & Duplex clips used with thimble eyes

Using Simplex & Duplex clips safely

This document outlines the safe use of Simplex and Duplex wire rope clips and should be passed to the user of the equipment. The form covers best practice use only and may not cover all aspects of a more specialised application.

ALWAYS:

- Inspect the parts for damage, wear, corrosion or abuse at the start of each work period.
- Ensure that the rope diameter corresponds to the size of the clip – the clip size is marked on the back of each fitting.
- Test the assembly with a load of equal or greater weight than loads expected in use.
- Check and retighten nuts after initial loading.

NEVER:

- Use these fittings with 1x19 or 1x7 strand.
- Use clips at extremes of temperature without consulting the supplier.
- Use wire rope gips as the main termination for overhead lifting.
- Use the clips with PVC or nylon-coated cable for any load bearing applications unless coating is removed.
- Use wire rope clips with obvious signs of mechanical, corrosive or heat damage.
- Use wire ropes that are excessively worn, damaged or corroded.

**** Warning: Failure to use the clips correctly may result in death or serious injury ****

In-service inspection and maintenance

Regular periodic inspection of Simplex and Duplex clips, together with the keeping of records, authenticated by a competent person is a requirement for almost every load-bearing application using these parts. The frequency of this activity is dependant on the severity of the application and governing regulations.

Useful recommendations may be found in published standards and in suppliers' literature.

Fitting

Start by wrapping insulating tape around the dead end of the cable. Insert the dead end of the rope into the inside profile of the clip, leaving approximately half a cable diameter in length of dead end protruding from the clip (e.g. for a 4mm diameter cable a 2mm length of dead end should be visible).

Create a soft eye (loop) or thimble eye (reinforced eye) then clip the live end of the cable into the opposite side of the clip, as shown in the diagram below. Ensure that thimble eye reinforcements are fitted as close to the top of the clip as possible to prevent a loose termination.

Dead end of cable sealed with insulating tape



Insert the clamping plate and tighten nut(s) firmly ensuring the cable is seated at the bottom of the fitting.



Do not use these fittings with 1x19 or 1x7 strand. Cable with 7x19 construction is much more flexible than 7x7 construction which makes it easier to insert into the fitting. Tecni-Cable does not recommend using 7x7 construction cable with Simplex or Duplex clips of 4mm size and above.

For 1.8mm diameter cable, use a 2mm clip and for 2.5mm diameter cable use a 3mm clip. Do not use 2mm clips for cables less than 1.8mm diameter.

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