

Dyn-A-Grip Installation

The Dyn-A-Grip product offering gives you a duct hanging system that is quick, easy, strong, and requires NO TOOLS! A simple but unique design utilizing ball bearings to lock the cable in place.

The Dyn-A-Grip system can be used to support a wide range of loads and objects. Any item you can envision that needs to be supported can be suspended using the Dyn-A-Grip system. Examples are:

- Ductwork
- Pipework
- Cable trays
- Ceiling grids
- Light fixtures and systems
- Large signs and indicator display
- Decorative objects
- Fan coils and air handling units

The Dyn-A-Grip system consists of:



#2 Cable Grips

#3 Cable Grips



#2 (5/64") Cable on spool
#3 (1/8") Cable on spool



#2 Cable Grip Kit – includes #2 Cable Grip and 10' #2 cable w/ pre-looped and crimped end



#3 Cable Grip Kit – includes #3 Cable Grip and 10' #3 cable w/ pre-looped and crimped end

The double-loop design gives the Dyn-A-Grip unsurpassed load carrying capacity! #2 Cable Grips can support a safe working load of 125 lbs (56 kg) when double-looped. #3 Cable Grips can support a safe working load of 250 lbs (113 kg) when double-looped. Compare that to the competitor offerings in this space where the equivalent #2 and #3 grips offer 100 lbs and 200 lbs of working load respectively. As with any system, using the correct grip with the correct cable is paramount to ensure you meet the safe working load.

The Dyn-A-Grips are designed with a 5:1 safety ratio and have a minimum breaking load of 3,306 lbs (1,500 kg). A built in safety feature requires the supported load to be minimized before adjustments can be made.

Dyn-A-Grip cable grips are made from aluminum and stainless steel. With the housing being made of aluminum the pieces can be recycled for sustainability.

The Dyn-A-Grip galvanized steel cable is a key component to the system. The Dyn-A-Grip cables are a 7 x 7 design. This means there are 7 wires woven into a strand and then 7 strands woven into the finished cable (see figure 1 below). This gives a total of 49 wires in the cable.

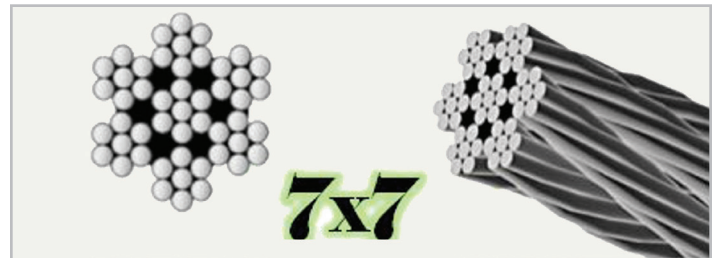


Figure 1

Understanding how a cable is made from many small single wires makes the cable clamping design key in adjustability and longevity. The serrated ramp/wedge (in figure 3 below) is a prevalent design in the industry. The serrations “bite” into the cable to lock the cable in place. This design negatively impacts the cable over time and its ability to support the full load, especially after making adjustments. The serrations cut into the individual wires which can lead to wire breaks. Once 1 wire (of the 49 in the cable) is broken the cable’s holding capacity is compromised. The unique ball bearing design in the Dyn-A-Grip entails 6 ball bearings (3 per side) surrounding the cable with smooth mating surfaces (in figure 2 below). The individual wires do not have the potential to get cut and the ball bearings spread the load more evenly across the whole cable. The bearing design allows the balls to roll versus a ramp/wedge having to slide when inserting or adjusting the cable. This allows for easy adjustment as well as a consistent holding capacity over the longer life of the cable!



Figure 2

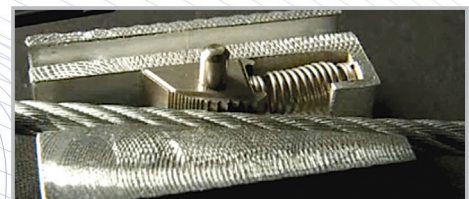


Figure 3

Proper Installation Procedure

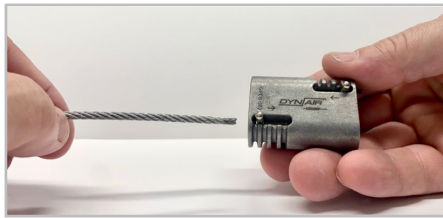
Cautions:

- Always use the equivalent Dyn-A-Grip with the matching cable. Failure to do so could lead to failure and potential damage or harm.
- Always use wire rope shears to cut the Dyn-A-Grip cable. Other cutting tools will not properly/cleanly cut the cable and can fray the cut ends. A frayed end negates the holding capacity of the cable and will not insert into the Dyn-A-Grip.
- Always insert the cable following the arrows cast into the sides of the Dyn-A-Grip.
- Always test and set the cable by pulling in the opposite direction. This will make sure the cable is properly set before placing the cable under load.
- Release supported load from the Dyn-A-Grip before making adjustments.

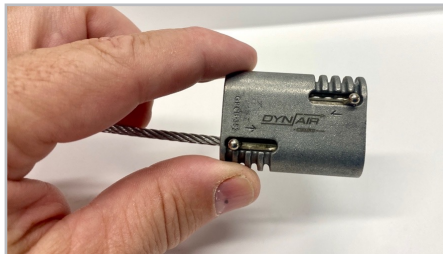
Step 1 – Make note of arrows cast into side of Dyn-A-Grips.



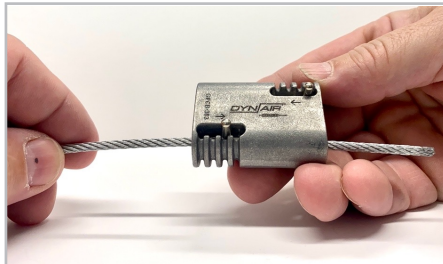
Step 2 – Align cable (in direction of arrow) on one side of the Dyn-A-Grip.



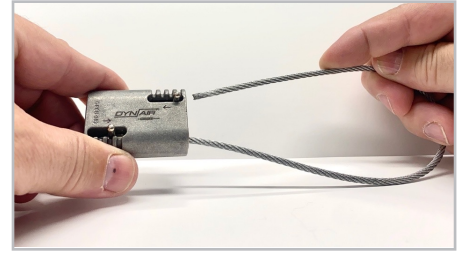
Step 3 – Insert cable into the smaller hole on the end of the Dyn-A-Grip.



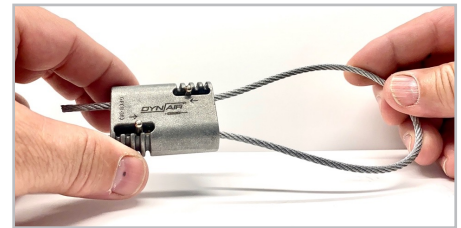
Step 4 – Push cable through Dyn-A-Grip. Other designs in the market require the user to open the grip using the adjustment tool. The Dyn-A-Grip ball bearing design allows simply pushing the cable through. Easier to install!



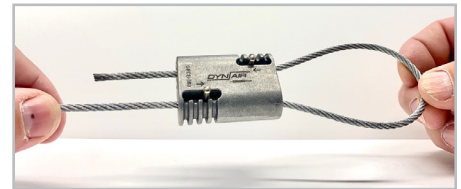
Step 5 – Loop the cut end of the cable and align with the opposite side of the Dyn-A-Grip.



Step 6 – Push cable through the Dyn-A-Grip adjusting for the size of the ductwork or item being supported.



Step 7 – Completed assembly shown here. Adjust the cable on both sides appropriately for the duct/item being supported and recommend leaving a 6" tail for any future adjustments.



www.carlislehvac.com



USA: 900 Hensley Lane, Wylie, TX 75098 • (877) 495-4822

97 Dexter Road, East Providence, RI 02914 • (401) 216-7900

Canada: 2055 Boulevard Hymus, Dorval, QC H9P 1J8 • (800) 544-5535