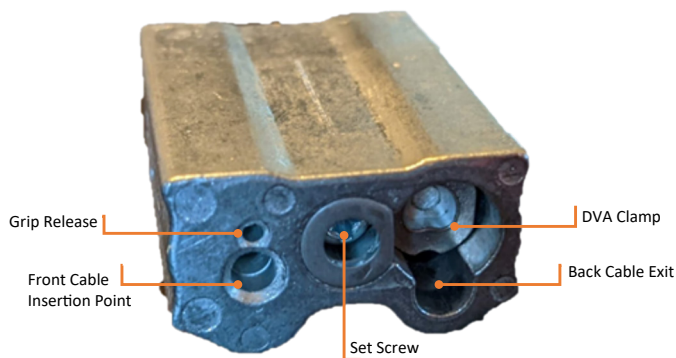


## Falcon LockGrip LG-3 Installation and Use

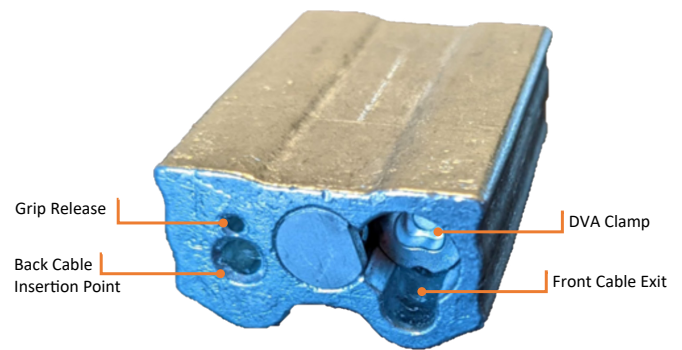
The Falcon LG3 is a two-way cable grip with Dynamic Vibration Arrest (DVA). The grip can be used to couple cables together or form a loop, allowing for the cable to be passed through/around a lash point to fix structures/assemblies. Once the cable(s) have been passed through the grip, the DVA is engaged by twisting (clockwise) the set screw. Once completed, the wire is clamped to the case of the grip, keeping the grip from vibrating independent of the cable in windy or other conditions that cause oscillations. The following provides detailed instructions for use of the Falcon LG3.

### Falcon LG3 Description

The Falcon LG3 includes two, one-way cable cribs that are positioned to operate in opposite directions. Additionally, a secondary grip is engaged by set screw, activating the DVA feature. Figures 1 & 2 show the LG3 components.



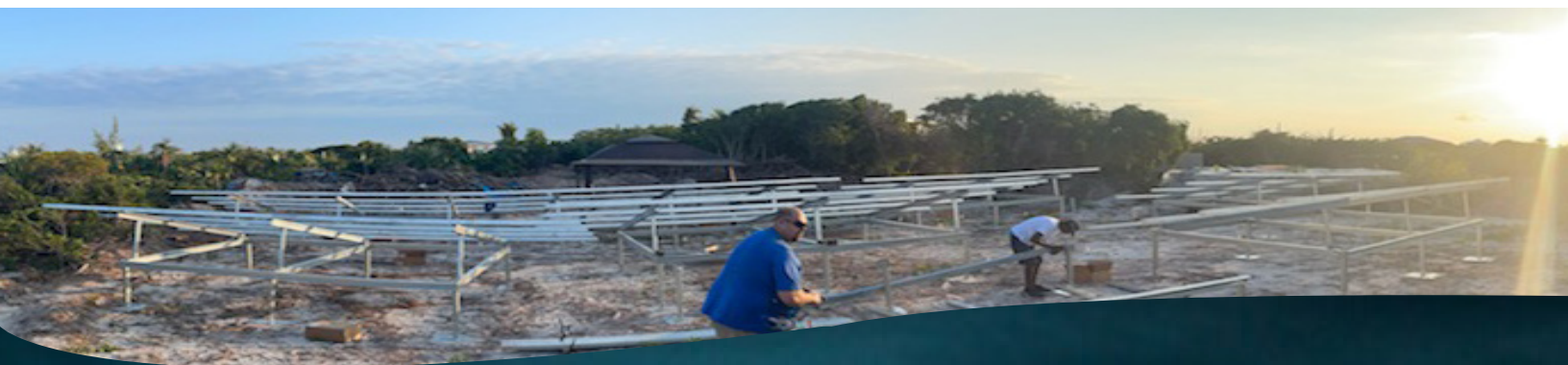
**Fig. 1. LG3 Front, Annotated**



**Fig. 2. LG3 Back, Annotated**

### Cable Size

Falcon LG3 is specifically for use with 1/8" cable (steel wire rope). Larger diameter cables are incompatible with the grip and smaller cable sizes will provide lessor performance or be non-functional.



## Cable Pass-through

In typical applications, a cable (steel wire rope) is fixed to a frame or structure, then run to a separate point and looped through and back towards the origin (Fig. 3.A). In this configuration, the LG3 is slid on to the cable prior to pass-through and the cable is passed back through the cable the opposite direction (3.B).

In this configuration, it is best to slide the LG3 onto the cable with the set screw facing the origin. Once the cable is passed through the destination point, and back through the LG3, appropriate (application specific) tension is applied to the assembly by pulling on the loose end (3.C). Once the desired tension is applied, the set screw is engaged by twisting (clockwise, #1 phillips) (3.D).

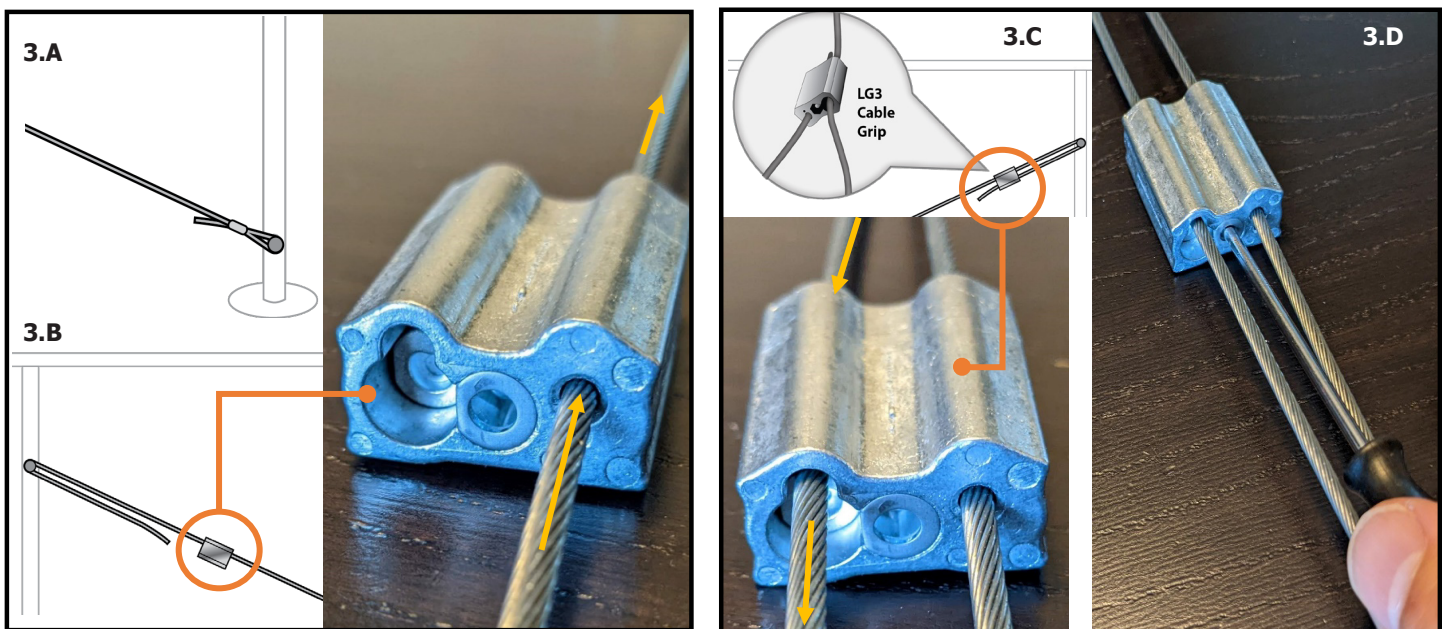


Fig. 3. LG3 Cable Pass-through

## Set Screw Torque

It is necessary to apply 10 in-lb of torque to the set screw. Do not over-tighten. As an example, hand snug with a small screw driver is sufficient. Additionally, a typical cordless drill with the speed and clutch set to their minimum speed and torque is sufficient. A torque measuring screwdriver can be used to ensure the screw is sufficiently tight.

In the event the screw is overtightened, the clamping screw drive is damaged and no longer functions. If the screw drive is damaged, the clamps cannot be dis-engaged and the grip is permanent and cannot be adjusted. Although permanent, the grip is fully functioning otherwise. Thus, if the wire is clamped to the case, it does not need to be removed or replaced. Figure 4 provides a photograph of a properly clamped wire. In this case, the grip is operational, regardless of set screw condition.

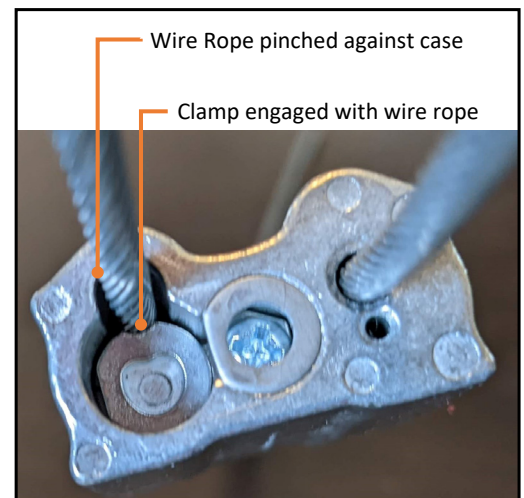


Fig. 4. LG3 Clamped Cable

## Adjustment

In the event additional tension is required, or other adjustments are necessary, the set screw can be loosened, and the wire released by engaging the grip release function. To release tension, insert a pin into the grip release (5.A), far enough to contact the roller and pull the LG3 toward the release pin. With the grip released, the wire rope can then be backed out of the grip (5.B).

If greater tension is desired in the assembly, loosen the set screw and apply force to create tension in the assembly. Re-tighten the set screw.

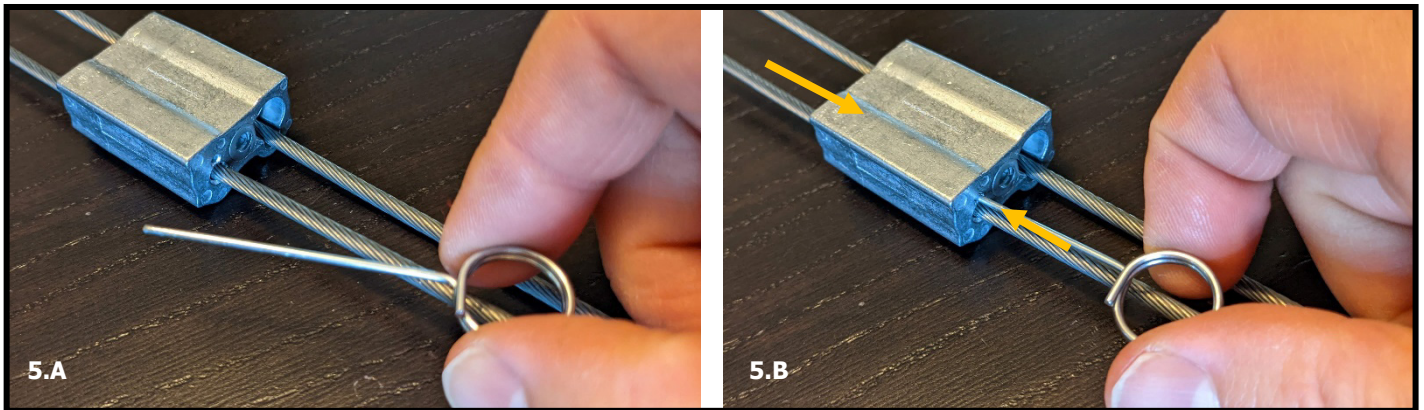


Fig. 5. LG3 Cable Adjustment

LG3 System Performance Loading Chart		
	Maximum Working Load	Safe Working Load (Max. working load/ 1.3 Safety Factor)
LG-3 with 1/8" Cable	1,850 lbs*	1,425 lbs
*Maximum load verified by independent, accredited third party testing, when used in conjunction with cable supplied by Western Green		

## LG3 Uses and Benefits

- Squaring Tensile Brace
- Create Wire Rope Loop
- Couple Wire Ropes
- High-Load Capacity
- Vibration Resistance
- All Metal Construction
- Easily Adjustable
- Labor and shipping Friendly

