

# SOLAR SECURING SOLUTIONS

## Cable Bracing & Tensioning



**FALCON LOCKGRIP™**

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## Cable Bracing and Tensioning

The Falcon Lock Grip LG-3 is designed to provide a two-way grip of wire rope for a variety of bracing applications including solar applications. The LG-3 can be used to couple wire ropes or form a loop with little loss of load capacity. In solar bracing applications, the LG-3 provides a very quick, easy method to tie, brace, and tension solar racks.

In addition to high load capacity, the LG-3 utilizes patent pending Dynamic Vibration Arrest (DVA) technology. Engaged by tightening the lock-screw, a secondary clamp is positioned to pinch each wire against the case (in addition to the primary wire grip(s)). This ensures the entire device vibrates in unison with the wire. Without DVA, in the case of wind or other vibration, a wire grip can shake loose, allowing the tie to fail. DVA prevents vibration failure. LG-3 grips provide the highest level of safety with the easiest installation and widest application portfolio of any gripping device.



Falcon LockGrip LG-3 provides a two way grip of 1/8" (3mm) wire rope for a variety of bracing applications.

## Benefits and Uses of the LockGrip Tensioner

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

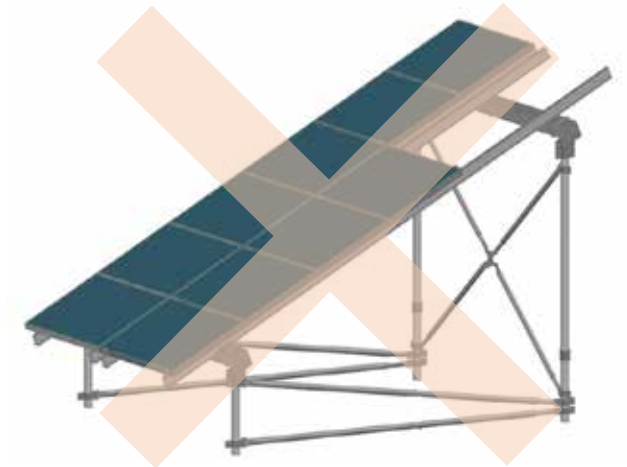
System Performance Loading Chart		
	Maximum Working Load	Safe Working Load (Max Working Load/1.3 Safety Factor)
LG-3 with 1/8" Cable (Loop)	1,850 lbs*	1,425 lbs
* Maximum load verified by independent, accredited third party testing, when used in conjunction with cable supplied by Western Green.		



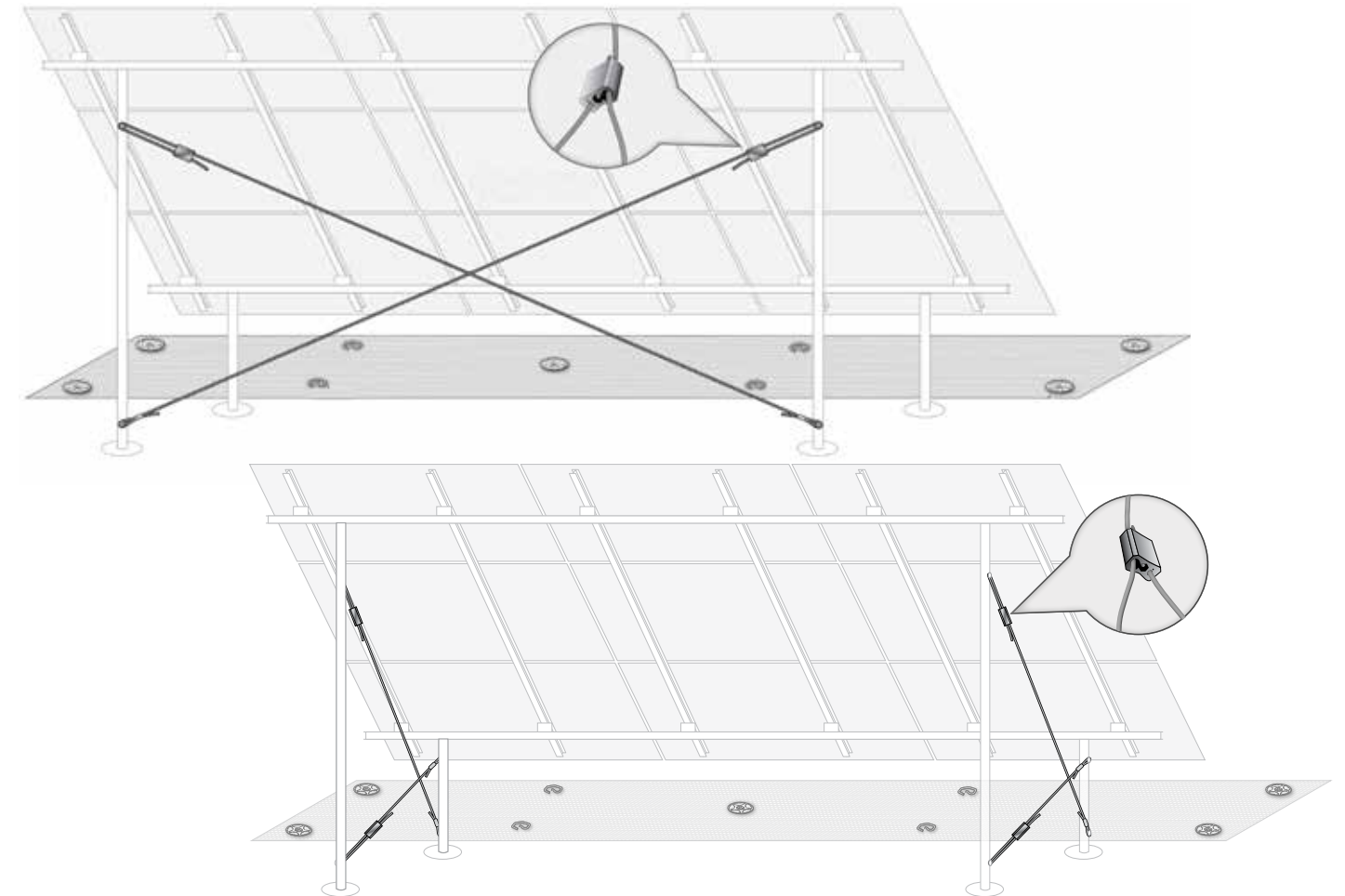
## Flexible Bracing versus Rigid Bracing

Utilizing flexible bracing over traditional rigid systems can create a safe method to install solar racks while retaining structural integrity. Benefits include:

- Light-weight bracing that removes heavy framework, reducing installation time and costs.
- High-strength system that maintains structural integrity against active forces such as strong winds and temperature fluctuations.
- Easily adjustable on site and can be tensioned using simple tools to engineered rack specifications.
- Green, eco-friendly application reducing carbon footprint of the full system.



Example of traditional rigid solar rack bracing. Utilizing flexible bracing can have many added benefits on total system costs.



Bracing of a solar rack with a pair of Falcon cable braces utilizing the 2-way grip of the LG-3 tensioner. The LG-3 tensioner can be used to tension wire in many applications including but not exclusive to the solar installation applications. Once tightened the LG-3 can be set with the adjustable screw. If you need to adjust at a future time, the LG-3 can be re-set without needing to cut the cable. Cable bracing may include cross bracing of back legs (top) or front to back leg bracing (bottom).

## FALCON LOCKGRIP™

### Installation Made Easy with Falcon LockGrip™

The Falcon LockGrip LG-3 tensioner can be used in a variety of configurations for different applications. The two, one-way grips are designed to allow adjustable grip locking by activating and setting the dynamic vibration arrest (DVA) feature. The grip can be used to couple cables together or form a loop, allowing 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 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 conditions.

The tensioning of the Falcon LockGrip LG-3 can be done by several methods including by hand or with the use of manufacturers' suggested wire tensioning tool. The wire cable should be tensioned to the engineered rack specifications.

Follow the QR code to see the Falcon LockGrip LG-3 in action on a solar rack bracing application, and see our full LG-3 installation guide for step-by-step instructions on setting, tensioning, and adjusting the LG-3 tensioner.



**SCAN QR CODE**  
For Full Installation Video

