

BB/BBR

A white line-art illustration on a red background showing a complex mechanical assembly. It features a thick, braided cable that curves across the frame. Several cylindrical components, likely bolts or sleeves, are positioned at various points where the cable is secured or passes through. A large, curved metal bracket or plate is visible in the lower right quadrant, with a circular opening. The overall style is technical and industrial.

BulletBrace™

VIBRO-ACOUSTICS®
A Swegon Group company

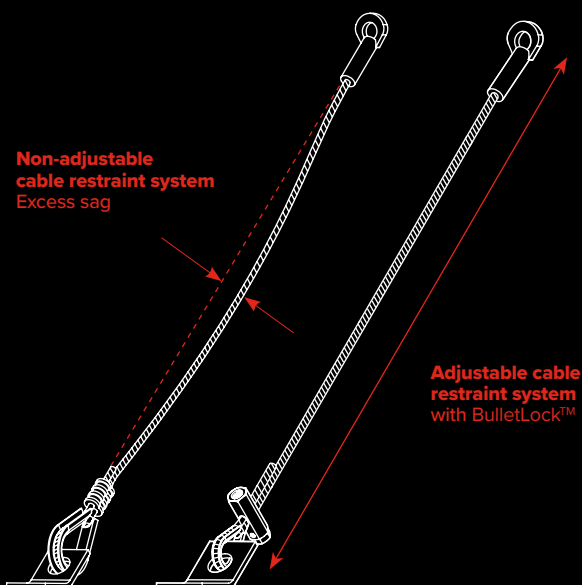
! The Challenge

IN SEISMIC APPLICATIONS, cable restraint systems provide the most common solution for restraining suspended components.

Cable restraints are either adjustable or non-adjustable. Adjustable cable restraints allow the installer to correct cable tension problems without having to replace or splice installed cable restraints. This saves installers from unnecessary rework time and cost.

Installing cable restraints can be a physically grueling exercise. They often need to be installed in hard-to-reach locations. The challenge is compounded when using non-adjustable restraint systems that use compression sleeves which require considerable effort and a large amount of space to operate the crimping tool.

Non-adjustable vs. adjustable cable restraint systems



! The Risk

ALTHOUGH there are other adjustable restraint systems available, many are large, complicated or come unassembled, requiring significant time and effort to install. Any bracing system that is difficult to install could jeopardize the project schedule with longer installation times and higher installation costs.

The Solution



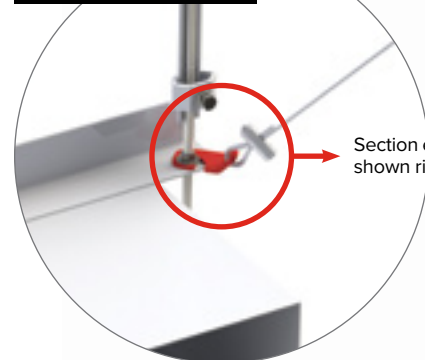
The fastest adjustable cable restraint system

With BulletBrace™ and its patented BulletLock™ mechanism (US Patent #9,625,003), Vibro-Acoustics offers contractors a cable restraint system that is fast and easy to use, minimizing installation time, effort and cost.

 **BULLETBRACE™**

JUST SLIDE AND SECURE!

Restraint System Example



Section enlargement shown right

Lock Screw
The lock screw is used to lock the secure screw in place.

Secure Screw
The secure screw inside the BulletLock™ is used to secure the cable in place.

BULLETLOCK™
BulletLock™ (US Patent #9,625,003) is the cable securing mechanism that allows for adjustability as well as quick and easy installation of the BulletBrace™ cable restraint system.

Attachment to component

Retrofit Bracket
Retrofit brackets allow installation freedom for the contractor. Installers can add restraints after the fact, saving significant labor. The Vibro-Acoustics retrofit bracket allows the restraint to be used with multiple hanger rod diameters.

VIBRO-ACOUSTICS' BULLETRACE™ cable restraint system is used to restrain non-structural components against seismic, wind, and blast forces.

Typical applications include suspended equipment, ductwork, piping, and conduit. Thanks to the uniquely designed BulletLock™ cable securing mechanism, our pre-assembled BulletBrace™ kits can be secured quickly and easily.

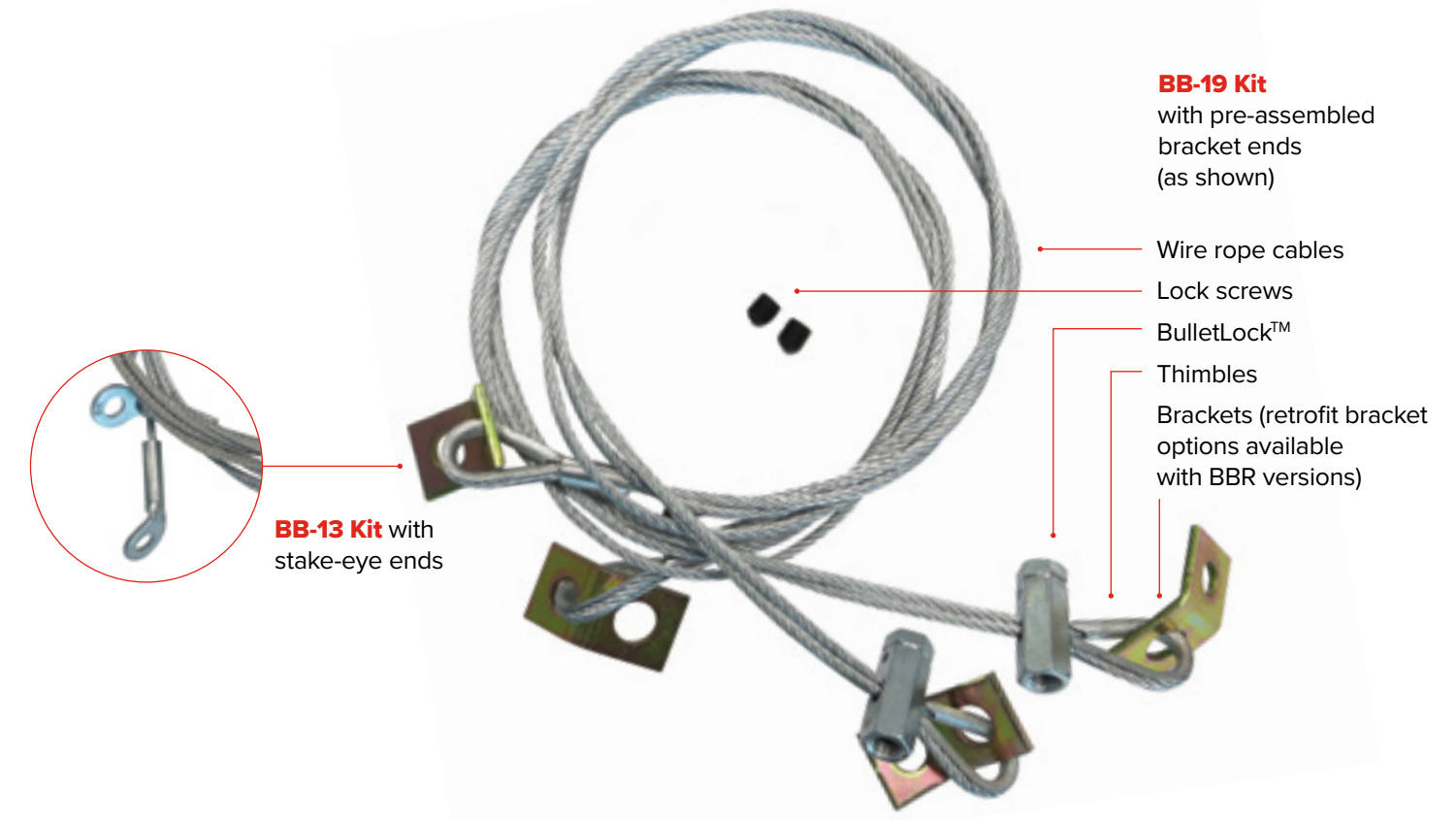
EASE OF ADJUSTMENT

BulletBrace™ is the most easily adjustable cable restraint system in the market. The cable length can be adjusted quickly after installation to remove excess sag in the cable. For the contractor, this adjustability eliminates the need for reinstalling the cable, saving time and reducing the installer's labor.

PRE-ASSEMBLED. JUST SLIDE AND SECURE!

BulletBrace™ comes pre-assembled. To adjust the cable, **just slide and secure!** This means no more fussing with thimbles, clips or brackets and no more fishing cables through holes. The result is significant labor savings.

Available in BB-13, BBR-13, BB-19 and BBR-19 versions, BulletBrace™ kits have pre-assembled ends, so they are ready for use straight out of the package.



BB-19 Kit
with pre-assembled bracket ends (as shown)

Wire rope cables



Lock screws

BulletLock™

Thimbles

Brackets (retrofit bracket options available with BBR versions)

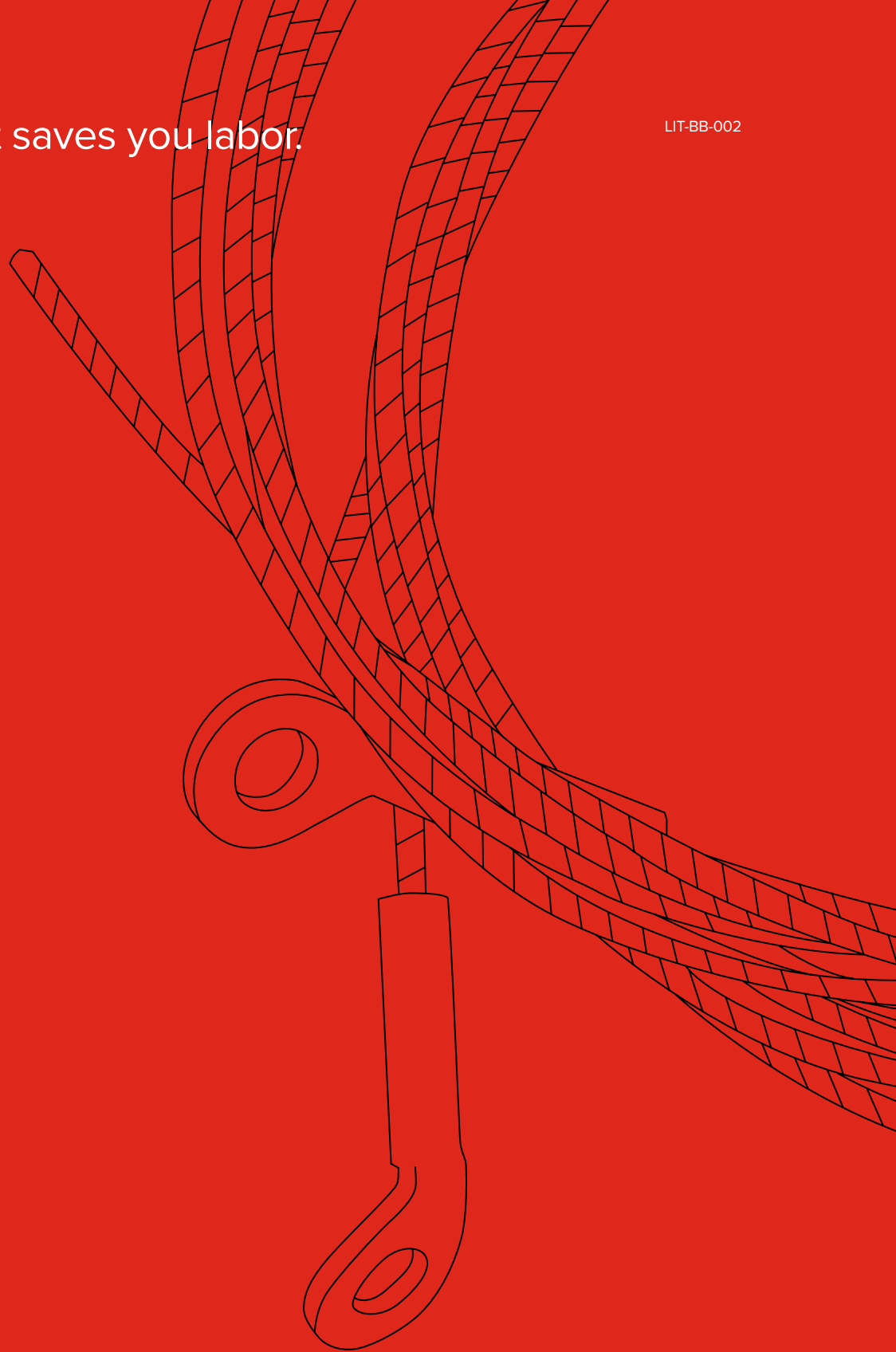
BB-13 Kit with stake-eye ends

SPECIFICATIONS	BB-13/BBR-13	BB-19/BBR-19
Color-coded for size BB-13/BBR-13 and BB-19/BBR-19 can be identified by the label color of the BulletLock™		
Rated load*	1000 lb (4448 N)	2000 lb (8896 N)
Cable length	10 ft. (3 m)	10 ft. (3 m)
Cable material	Galvanized steel	Galvanized steel
Fixed end hole	1/2 in. (13 mm)	5/8 in. (16 mm)
Connections	Bracket connection on one end stake-eye on other end	Bracket connection on both ends
Secure screw installation torque	10 lbf-ft (13.6 N·m)	26 lbf-ft (35.3 N·m)

*Rated load based on third-party testing per ANSI/ASHRAE Standard 171-2017. Contact Vibro-Acoustics or see our website for additional information on structural attachment requirements.

The company that saves you labor.

LIT-BB-002



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VIBRATION ISOLATION AND RESTRAINT SYSTEMS