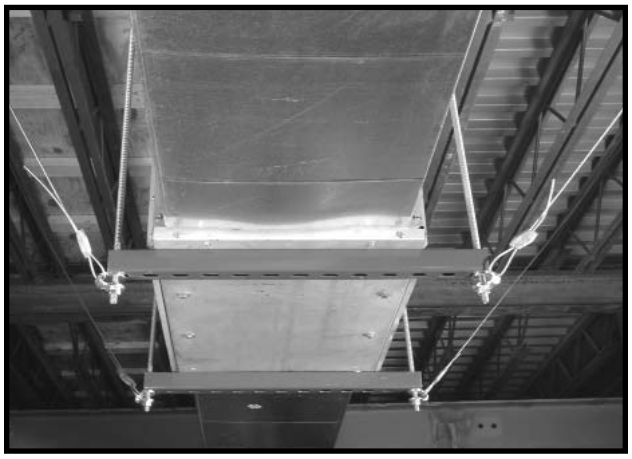
KINETICS™
Seismic Cable Restraint Kits



Description

Kinetics Noise Control Seismic Cable Restraint Kits are used to restrain piping, ductwork, cable trays, and suspended equipment, to prevent damage during seismic events. The cable restraints are engineered to meet the requirements of the latest building codes and are designed to minimize field labor costs. Cables are available in diameter sizes ranging from 1/16" (2 mm) to 1/2" (13 mm), to meet any seismic requirement.

Kinetics Seismic Cable Restraint Kits feature a series of kits containing factory-swaged, cut-to-length cables with a select group of multipurpose attachment hardware.

These kits are available in several cable lengths. We also offer kits featuring cable by the spoll for field cutting on projects where it is difficult to predetermine cable length.

Factory-swaged ends require the installer to make only one end connection in the field. All swages are zinc-plated copper.

Our seismic attachment brackets require a minimum amount of field labor and can be installed without the need to disassemble the existing piping or equipment support hardware.

Application

Kinetics cable kits are attached to piping, cable tray, ductwork, and equipment rods or directly to the equipment itself. The brackets can either be welded or bolted to the structure and equipment.

The kits can be attached perpendicular or parallel to the piping or duct runs to prevent swaying. The use of two opposing kits provides all directional restraint.

Specifications

Cable Restraints for Suspended Piping and Ductwork

Seismic wire rope cable restraints shall consist of steel wire strand cables, sized to resist seismic loads, arranged to offer seismic restraint capabilities for piping, ductwork, and suspended equipment in all lateral directions.

End connection fittings shall be designed to swivel in order to ensure proper cable alignment and to avoid bending of the rope. Protective thimbles shall be used as required at connection points to eliminate bending cable across sharp edges.

Anchoring hardware at each end of the cable shall be designed to exceed the working project design load of the wire cable by a minimum of 50 percent.

Seismic cable restraints shall be Model KS Series as manufactured by Kinetics Noise Control.

KSCA Bracket Kits

The KSCA seismic attachment bracket is designed to be bolted or welded to the structure with the cable factory-swaged in place (Fig. 1). It can also be used when bolted to another KSCA bracket, attached to a hanger rod, directly above the clevis (Fig 2). The cable is quickly attached using the Gripple connector on cable diameters up through 3/16" (5 mm). Wire rope clips are used on larger diameter cables.

KSCA Bracket, (Fig. 1)

Model KSWC Cable Restraint Kit

- Cable kit includes two cable assemblies with each assembly containing (2) KSCA brackets with one end swaged to the cable and the other bracket shipped loose. The field attachment of the loose bracketis easily accomplished by the use of supplied wire rope clips.
- Available in 1/8" (3 mm), 3/16" (5 mm), and 1/4" (6 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).
- Also available in a bulk kit in which cable is shipped loose and attachment of the brackets is accomplished through the use of wire rope clips.

Model KSGC Gripple Cable Restraint Kit

- Cable kit includes two cable assemblies with each assembly containing (2) KSCA brackets with one end swaged to the cable and the other bracket shipped loose. The attachment of the loose bracket is accomplished by the use of a Gripple connector.
- Available in 1/8" (3 mm) and 3/16" (5 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).
- Also available in a bulk kit in which cable is shipped loose and bracket attachment is accomplished by the use of Gripples connections.

KSCA Hanger Rod Connection with Gripples, (Fig. 2)

CCA Bracket Kits

Model KSCC Bulk Cable Restraint Kit

- Cable kit includes (4) KSCC brackets with (8) wire rope clips. The KSCC brackets are shipped loose with the field attachment by use of wire rope clips.
- Available in 1/4" (6 mm), 3/8" (10 mm), and 1/2" (13 mm) cable sizes with cable shipped in bulk quantities.
- An optional 4-bolt ceiling cable attachment bracket is available (Model KSCC4).

Model KSCCU Bulk Cable Restraint Kit

- Cable kit includes (2) KSCC brackets and (2) KSUA brackets with (8) wire rope clips. The brackets are shipped loose with the field attachment by use of wire rope clips.
- Available in a 1/4" (6 mm) cable size with cable shipped in bulk quantities.
- An optional 4-bolt ceiling cable attachment bracket is available (Model KSCCU4).

Cable Selection Guide

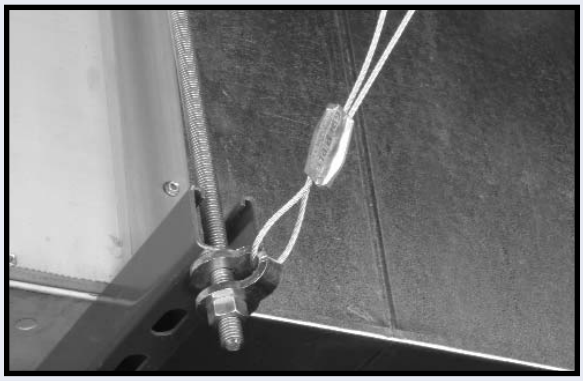
	1/16" 2mm	1/8" 3mm	3/16" 3mm	1/4" 6mm	3/8" 10mm	1/2" 13mm
KSWC		X	X	X		
KSWC-Bulk		X	X	X		
KSGC		X	X			
KSQF		X	X			
KSLG		X	X			
KSCU	X	X	X			
KSUG	X	X	X			
KSUA		X	X	X		
KSUA-Bulk		X	X	X		
KSCC				X	X	X
KSCCU				X		
KSCC4				X		
KSCCU4				X		

KSUA Bracket Kits

The KSUA seismic attachment bracket can be used to attach cable to the structure using a factory-swaged loop (Fig. 3) or it can be used to field-attach the cable to the equipment using a Gripple connector (Fig. 4). The Gripple connector is available for cable diameters up through 3/16'' (5 mm). Wire rope clips are utilized on larger diameter cables.

Model KSUA Cable Restraint Kit

- Cable kit includes two cable assemblies with each assembly containing (1) KSCA and (1) KSUA Loop Quick bracket. The KSCA is swaged to one end of the cable and the KSUA is shipped loose. The KSUA is attached to the cable by the use of wire rope clips.
- Available in 1/8" (3 mm), 3/16" (5 mm), 1/4" (6 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).
- Also available in a bulk kit where cable is shipped loose and bracket attachment is accomplished by use of wire rope clips.



KSUA Bracket, (Fig. 4)

KSUA Bracket, (Fig. 3)

Model KSCU Gripple Cable Restraint Kit

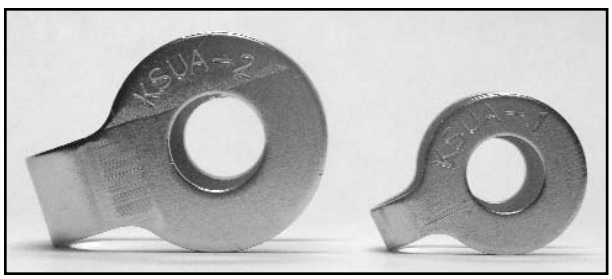
- Cable kit includes two cable assemblies with each assembly containing (1) KSCA bracket and (1) KSUA Loop Quick bracket. The KSCA is swaged to one end of the cable and the KSUA is shipped loose. The KSUA is attached to the cable by use of a Gripple connector.
- Available in 1/16" (2 mm), 1/8" (3 mm), and 3/16" (5 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).

Model KSUG Gripple Cable Restraint Kit

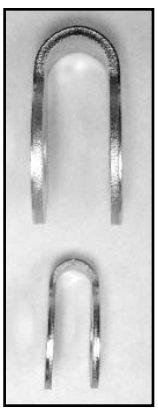
- Cable kit includes two cable assemblies with each assembly containing (2) KSUA Loop Quick brackets. A loop is swaged to one end of the cable and the second KSUA is shipped loose. The loose KSUA is attached to the cable by use of a Gripple connector (Fig 4).
- Available in 1/16" (2 mm), 1/8" (3 mm), and 3/16" (5 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).

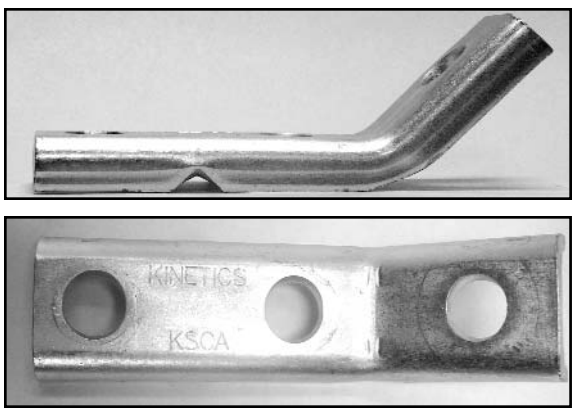
Model KSLG Gripple Cable Restraint Kit

- Cable kit includes two cable assemblies with each assembly containing (1) KSCA bracket and (1) KSUA Loop Quick bracket. The KSCA is swaged to one end of the cable and the KSUA is shipped loose. The KSUA is attached to the cable by use of a Gripple connector.
- Available in 1/8" (3 mm) and 3/16" (5 mm) cable sizes with precut lengths of cable at 10' (3 m) and 15' (5 m).

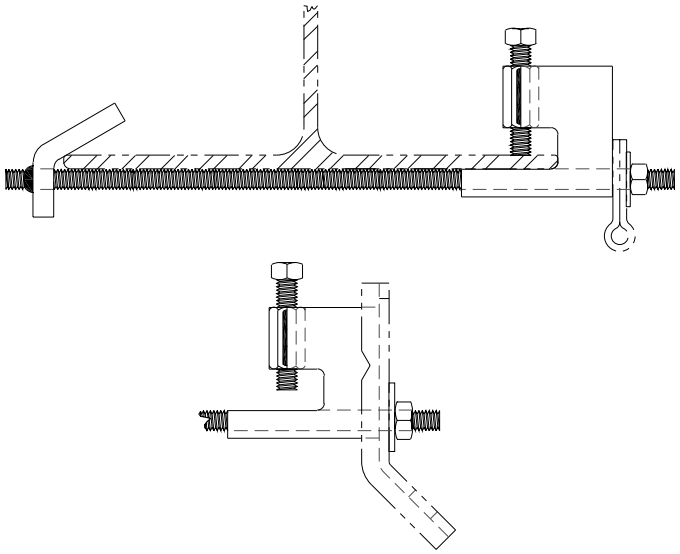


KSUA Bracket, (Fig.5)

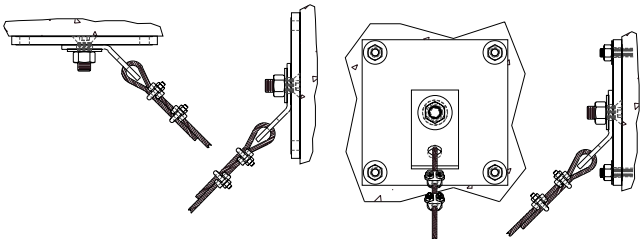




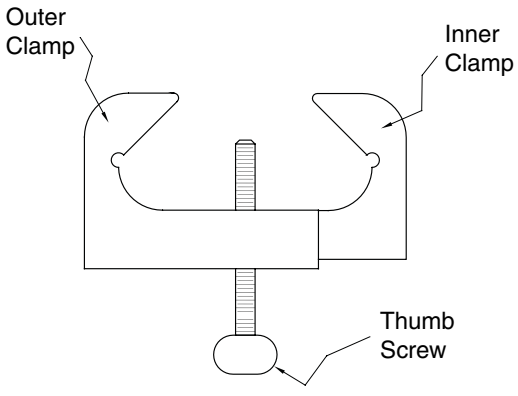
KSCA Bracket, (Fig.6)



Model KSBC (Fig. 7)
Seismic cable restraint beam clamp where conditions do not allow the bolting or welding of brackets to the support structure.



Model KSCC4 (Fig. 8)
Seismic cable restraint bracket designed for highly seismic areas where the attachment to concrete is the only option.



Model KHRC (Fig. 9)
Rod Stiffener kit uses angle sizes ranging from 1" (25 mm) x 1" 25 mm) x 1/8" (3 mm) to 2" (51 mm) x 2" (51 mm) x 1/4" (6 mm) to provide stiffness to a hanger rod. This allows a smooth and cost efficient installation procedure that will handle any seismic conditions that may exist.

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