

ENGINEERED SEISMIC BRACING SOLUTIONS FOR SUSPENDED MEP SYSTEMS

PRODUCT OVERVIEW

Product Overview The EFSCCK-H Series is a factory-engineered, pre-packaged seismic cable restraint kit designed for bracing non-structural suspended MEP systems—including ductwork, mechanical piping, conduit, and HVAC equipment—against seismic and wind-induced forces. Each kit employs a hybrid configuration: a fixed structural bracket on one end provides a rigid structural attachment point, while an EasyLock-style adjustable wire-locking mechanism on the opposing end enables tool-free, field-tensioned cable termination without crimping or swaging. All kits are factory-assembled and sized by load rating, providing a complete, pre-engineered solution that minimizes field errors and accelerates submittal approval.



KIT COMPONENTS

Each EFSCCK-H Series kit is supplied as a complete, factory-assembled package comprising:

High Strength Galvanized Steel Wire Rope — 4 Nos.

EasyLock Device — 4 Nos.

Dual Angle Bracket — 8 Nos.



FEATURES & ADVANTAGES

Hybrid Configuration — Faster Installation : Fixed dual-angle bracket at the structural end; EasyLock cam-action lock at the equipment end. Delivers rigid structural attachment with field-flexible tensioning — up to 50% faster than dual-bracket kits.

Multidirectional Seismic Restraint: Tension-only cable resists seismic loads in all horizontal directions. Standard 45° angled installation provides omnidirectional code coverage per ASCE 7 and IBC. Full angular orientation flexibility; compatible with threaded rod systems as supplementary bracing.

7×19 Galvanized High Strength Galvanized Steel Wire Rope: Break-strength certified across all five load ratings. Corrosion-resistant for long-term durability in standard MEP environments.

EasyLock Tool-Free Tensioning: Cam teeth self-engage under tension — no crimps, swages, or tools required. Re-adjustment is achieved by relieving load and sliding the adjustment pin. Compact, lightweight packaging; ideal for retrofits and tight-space installations.

PRODUCT DATA CABLE

Product Series	Cable Dia.	Break Strength	Cable Length	Bracket Type	EasyLock Model
EFSCCK-H-1/16	1/16"	144 lbs	10 ft	Dual Angle Brackets	ELS-E-1/16
EFSCCK-H-1/8	1/8"	610 lbs	10 ft	Dual Angle Brackets	ELS-A-1/8
EFSCCK-H-3/16	3/16"	1260 lbs	10 ft	Dual Angle Brackets	ELS-S-3/16
EFSCCK-H-1/4	1/4"	2100 lbs	10 ft	Dual Angle Brackets	ELS-Y-1/4
EFSCCK-H-3/8	3/8"	4320 lbs	10 ft	Dual Angle Brackets	ELS-L-3/8

All break strengths are minimum certified tensile values. Design loads must incorporate applicable safety factors per ASCE 7 and IBC. Custom cable lengths available on request

COMPLIANCE & TESTING

Seismic Codes

Designed for use in seismic restraint applications governed by ASCE 7 IBC, CBC, and applicable non-structural component seismic requirements.

Dynamic Load Testing

System performance verified by independent laboratory testing under simulated dynamic seismic loads. Test protocols consistent with IBC non-structural component requirements.

Engineering Submittals

Pre-approved submittal packages with PE-stamped drawings available on request. Engineering coverage in all 50 U.S. states and Canadian provinces.

APPLICATIONS

- Ideal for use in commercial, industrial, and institutional projects requiring certified seismic restraint:
- Suspended HVAC equipment, fans, or VAV boxes
- Mechanical piping and hydronic systems
- Electrical conduit and cable trays
- Suspended laboratory instruments
- Rooftop or ceiling-mounted mechanical devices

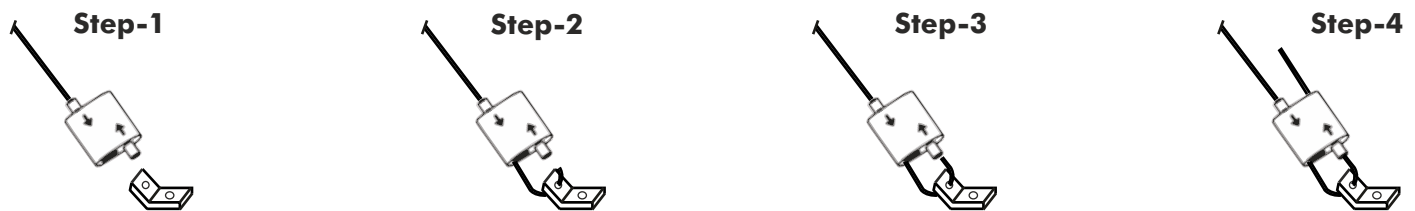
INSTALLATION SEQUENCE

Step 1 - Attach Bracket to Structure Fix the dual-angle bracket to the designated structural anchor point (steel beam, concrete slab, or open-web bar joist). Two brackets are required per cable assembly. No drilling required at bar joist.

Step 2 - Route and Loop the Cable Pass the aircraft cable through the EasyLock device. Loop the cable around the opposing structural or equipment anchor point, then pass the free end back through the EasyLock. Wrap tightly — no slack permitted.

Step 3 - Tension and Lock Pull the cable through the EasyLock until the assembly is taut. Cam teeth self-engage under tension. Leave a 2–3" tail protruding from the lock. No crimps, swages, or tools required.

Step 4 - Verify Angle and Confirm Installation Confirm cable angle orientation ($\approx 45^\circ$ from vertical is required for omnidirectional seismic performance). Inspect all connections and confirm zero slack across the full cable assembly.



Adjustment Procedure To re-tension or reposition: relieve cable tension, then slide the EasyLock adjustment pin in the direction indicated by the arrow to disengage the cam teeth. Re-tension and re-confirm angle before completing installation.

