



Seismic Cable Restraint Kits



Engineered Restraint Solutions for Suspended Non-Structural Systems

Overview

The Easyflex EFSCK Series Seismic Cable Restraint Kits are engineered to secure suspended non-structural components—such as ductwork, piping, conduit, cable trays, and HVAC equipment—against seismic, wind, and blast forces. Designed in compliance with ASCE 7 and the International Building Code (IBC), these kits offer multidirectional restraint and meet stringent requirements for life safety and equipment survivability during and after seismic events.

Key Applications

- Suspended mechanical piping systems
- Suspended electrical conduit and cable trays
- HVAC ductwork and inline air handling units
- Suspended ceiling-mounted heaters, fans, and HRVs
- Laboratory or industrial suspended equipment requiring seismic bracing



Product Features

- **All-Directional Restraint:** Provides tension-only resistance in all lateral directions, minimizing sway and displacement under seismic motion.
- **Pre-Engineered Assembly:** Each kit includes factory-sized galvanized aircraft cable assemblies with integral brackets and hardware for rapid on-site installation.
- **Flexible Orientation:** Brackets allow installation at any rotation angle, ensuring adaptability across equipment types and orientations.
- **High-Tensile Aircraft Cable:** 7x19 galvanized aircraft-grade cable ensures high strength, corrosion resistance, and durability.
- **Optimized for 45° Angled Bracing:** Capacity ratings are validated for a standard 45° installation to balance vertical load-sharing and lateral restraint.
- **Modular Configuration:** Kits available with two or four cable assemblies, suitable for single-point and four-point suspended systems.

Component Kit Details

Product Series	Cable Size	Tensile Strength	Cable Length	Bracket Type
EFSCK-1/16	1/16"	144 lbs	10 ft	Dual Angle Brackets (45°)
EFSCK-1/8	1/8"	610 lbs	10 ft	Dual Angle Brackets (45°)
EFSCK-3/16	3/16"	1260 lbs	10 ft	Dual Angle Brackets (45°)
EFSCK-1/4	1/4"	2100 lbs	10 ft	Dual Angle Brackets (45°)
EFSCK-3/8	3/8"	4320 lbs	10 ft	Dual Angle Brackets (45°)

Compliance & Testing

- Conforms to the seismic bracing provisions of:
 - ASCE 7-16 / ASCE 7-22
 - IBC 2018 / 2021
 - CBC and OSHPD (California) requirements for suspended systems
- Component testing based on simulated dynamic loads, ensuring real-world applicability

Advantages

Rapid Installation: Pre-assembled kits reduce labor time and simplify seismic compliance.

Versatile Compatibility: Suits a wide range of suspended system configurations.

Engineer Approved: Ready-to-spec and supported by calculation data upon request.

Durable Materials: Corrosion-resistant galvanized steel ideal for long-term performance in mechanical rooms and rooftop environments.

Optional Customization

- Stainless steel cable options for corrosive environments
- Custom cable lengths available upon request
- Engineering submittals and stamped drawings for specific projects