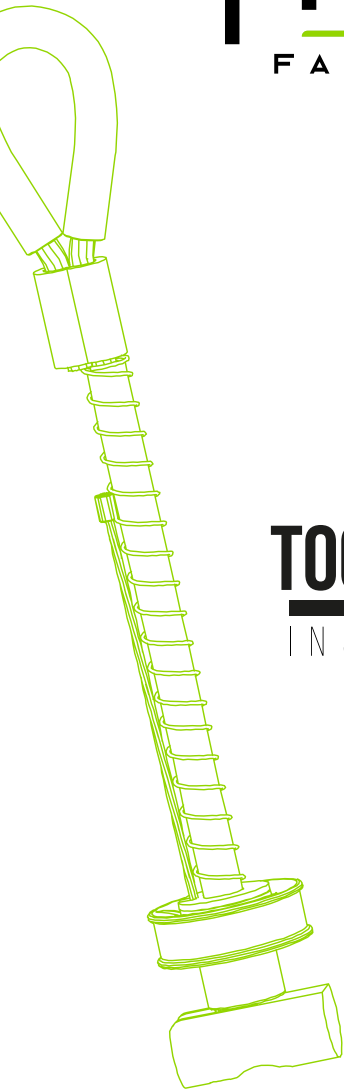


FRONTLINE[®]

FALL PROTECTION



TOGGLE BOLT ANCHOR

INSTRUCTION MANUAL



THE INSTRUCTIONS APPLIES TO THE FOLLOWING MODELS:
COT345K



BKLFL 05

Read This Instruction Manual Carefully Before Using This Equipment.

User Instructions must always be available to the user and are not to be removed except by the user of this equipment. For proper use, see supervisor, User Instructions, or contact the manufacturer.

WARNING

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users and purchasers of this equipment must read and understand the User Instructions provided for correct use and care of this product. All users of this equipment must understand the instructions, operation, limitations and consequences of improper use of this equipment and be properly trained prior to use per OSHA 29 CFR 1910.66 and 1926.503 or applicable local standards.

Misuse or failure to follow warnings and instructions may result in serious personal injury or death.

PURPOSE

The COT345K is an anchorage connector designed to function as an interface between the anchorage and a fall protection, work positioning, rope access, or rescue system for the purpose of coupling the system to the anchorage. Any references to "anchorage connector" in this manual include, and apply to, the COT345K.

USE INSTRUCTIONS

1. A user must be of sound mind and body to properly and safely use this equipment in normal and emergency situations. Users must have a physician ensure they are clear of any medical conditions that may affect the proper and safe use of this equipment in normal and emergency situations.
2. Before using a personal fall arrest system, user must be trained in accordance with the requirements of OSHA 29 CFR 1910.66 in the safe use of the system and its components.
3. Use only with ANSI/OSHA compliant personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 5,000-lbf (22kN) in the absence of certification.
4. The user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 8 kN (1800-lbf). In the EU these forces must be limited to 6 kN (1350-lbf)
5. Use of this product must be approved by an engineer or other qualified person to be compatible with any and all structural & operational characteristics of the selected installation location and system to be connected to this anchorage connector.
6. The anchorage connector must be inspected prior to each use for wear, damage, and other deterioration. If defective components are found the anchorage connector must be immediately removed from service in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.
7. The anchorage connector should be positioned in such a way that minimizes the potential for falls and the potential fall distance during use. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.
8. A rescue plan, and the means at hand to implement it, must be in place that provides the prompt rescue of users in the event of a fall, or assures that users are able to rescue themselves.
9. After a fall occurs the anchorage connector must be removed from service and destroyed immediately.

USE LIMITATIONS: The anchorage connector shall not be used outside its limitations, or for any purpose other than that for which it is intended.

1. The anchorage connector is designed for single user, with a capacity up to 310 lbs (140 kg) including clothing, tools, etc.
2. The anchorage connector may only be loaded as shown in the **LOAD DIAGRAM**.
3. The anchorage connector is designed to be used in temperatures ranging from -40°F to +130°F (-40°C to +54°C).
4. Do not expose the anchorage connector to chemicals or harsh solutions which may have a harmful effect.
5. Do not alter or modify this product in any way.
6. Caution must be taken when using any component of a fall protection, work positioning, rope access, or rescue system near moving machinery, electrical hazards, sharp edges, or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.
7. Do not use/install equipment without proper training by a "competent person" as defined by OSHA 29 CFR 1926.32(f).
8. Do not remove the labeling from this product.
9. Additional requirements and limitations may apply depending on anchorage type and fastening option utilized for installation. All placements must be approved by an engineer or other qualified person.
10. This anchorage connector should not be used as part of a horizontal lifeline system that has not been designed and approved to be used with 5,000-lbf anchorage connectors.
11. The anchorage connector should only be used for personal fall protection and not for lifting equipment.

COMPATIBILITY LIMITATIONS

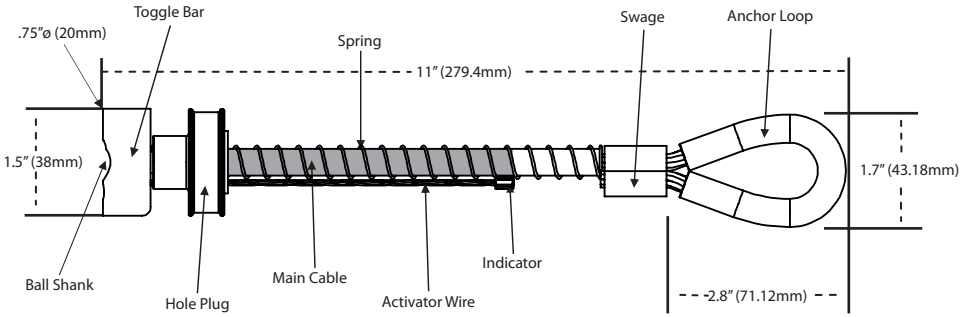
Anchorage connector must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snaphooks from being engaged to certain objects unless two requirements are met: it must be a locking type snaphook, and it must be "designed for" making such a connection. "Designed for" means that the manufacturer of the snaphook specifically designed the snaphook to be used to connect to the equipment listed. The following connections must be avoided, because they can result in rollout* when a nonlocking snaphook is used:

- Direct connection of a snaphook to horizontal lifeline.
- Two (or more) snaphooks connected to one D-ring.
- Two snaphooks connected to each other.
- A snaphook connected back on its integral lanyard.
- A snaphook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snaphook dimensions that would allow the snaphook keeper to be depressed by a turning motion of the snaphook.

***Rollout: A process by which a snaphook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.0-2007)**

MAINTENANCE, CLEANING AND STORAGE

Cleaning periodically will prolong the life and proper functioning of the product. The frequency of cleaning should be determined by inspection and by severity of the environment. Clean with compressed air and/or a stiff brush using plain water or a mild soap and water solution. Do not use any corrosive chemicals that could damage the product. Wipe all surfaces with a clean, dry cloth and hang to dry, or use compressed air. When not in use, store anchorage connectors in a cool, dry, clean environment, out of direct sunlight and free of corrosive or other degrading elements.



PERFORMANCE:

Static Tensile Strength: 5000-lbf (22kN)
Maximum Capacity: One worker with max weight of 310-lbs when used as a single point anchorage connector for personal fall arrest or restraint system

DIMENSIONS:

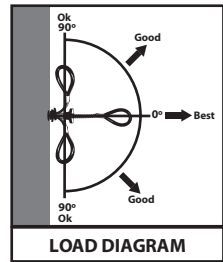
Weight: .45-lbs (207g)
Length: 11" (279.4mm)
Diameter: .75 (19mm)

REGULATORY COMPLIANCE:

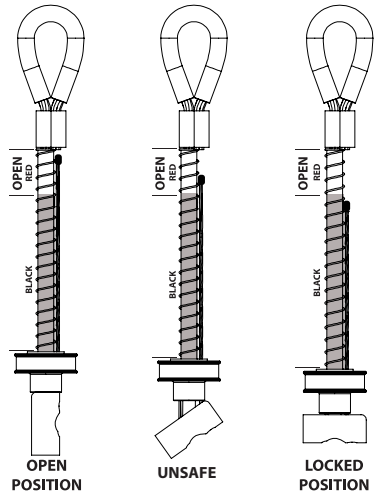
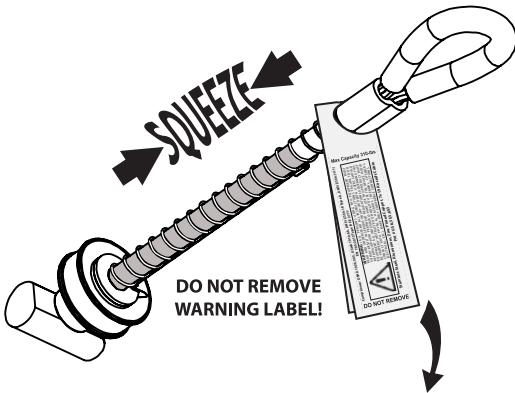
ANSI Z359.18 Type A, ANSI Z359.7-2011
 OSHA 1926.502, OSHA 1910.66,
 EN 795:2012 Type B Class B (CE 2777)

COMPONENT MATERIALS:

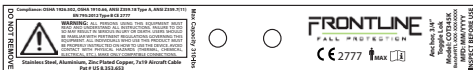
Aluminum: Hole Plug, Trigger
Aircraft Cable: Main Cable, Activator Wire
Polyurethane: Loop Cover
Stainless Steel: Toggle Bar
Zinc Plated Steel: Spring
Zinc Plated Copper: Swage



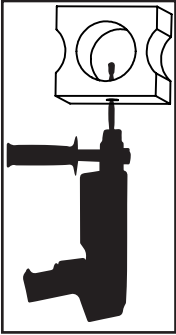
TOGGLE POSITION DIAGRAM



The indicator may be used as a means of determining toggle position when view of toggle bar is obstructed by the anchorage. If indicator is aligned with the red zone, toggle bar is in open or unsafe position. If top of indicator is below the red zone, toggle bar is in locked position.



INSTALLATION INSTRUCTIONS:



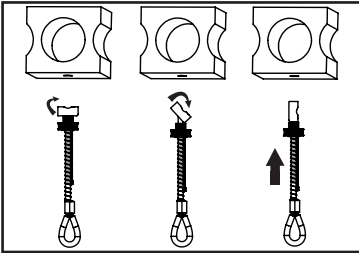
1. FOR HOLLOW CORE CONCRETE:

Drill a .75" (20mm) hole in center of the hollow channel in the hollow core concrete. The hollow core concrete must be at least 5,000-psi (34.5 MPa) concrete with a web thickness between 1.75" (45mm) and 3" (76mm). Works with 6" hollow core or larger. Never drill any hole closer than 6" (152mm) to any edge or corner.

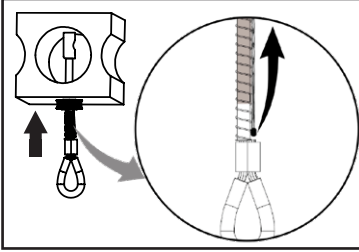
FOR STEEL:

Drill a .75" (20mm) hole in the steel flange. Steel flange thickness must be between .25" (6.4mm) and 3" (76mm). Never drill a hole closer than 1.5" (38mm) to any edge or corner.

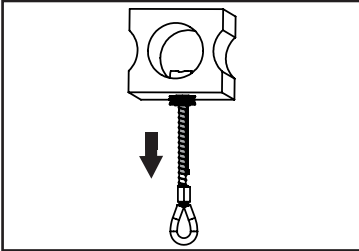
Always inspect the hole carefully when reusing a previously drilled hole.



2. Rotate toggle bar into open position and insert into hole.

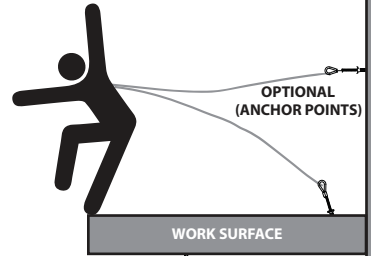


3. Push anchorage connector into drilled hole and engage toggle bar by pushing activator wire towards hole plug.



4. Pull on anchor loop and ensure toggle bar is fully seated in locked position as seen in the **TOGGLE POSITION DIAGRAM**. The hole plug should be fully seated in drilled hole.

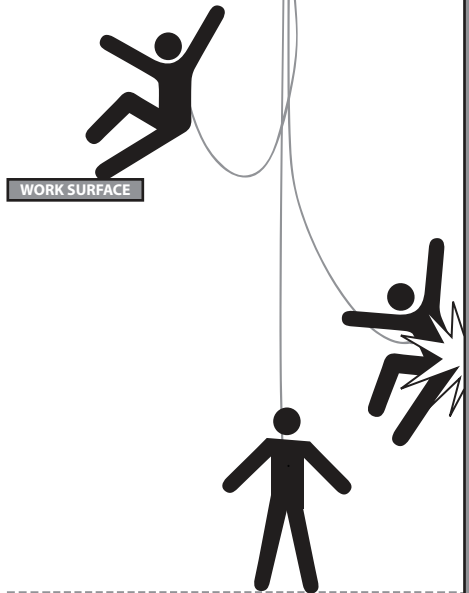
May be used as an anchor point for a leading edge restraint system. See optional anchor points below for example. The use of two anchors is not required for leading edge restraint systems unless otherwise specified by the manufacturer.



*The user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 8 kN (1800-lbf). In the EU these forces must be limited to 6 kN (1350-lbf).

(ANCHOR POINT)

Concrete must be 3000-psi or higher and fully cured. Installation location to be approved by a qualified person.



MINIMUM CLEARANCE 3ft (1m)

DECK/FLOOR/GROUND LEVEL

WARNING! Location of installation of the toggle anchor must be approved by an engineer or other qualified person to be compatible with any and all structural & operational characteristics of the selected installation location.

All products subjected to fall arresting forces should be removed from service immediately!

WARNING!!! SWING FALLS CAN OCCUR WHEN THE WORKER IS NOT DIRECTLY UNDER ANCHOR POINT.

