



APPLIED FIBER

OPERATOR'S INSTRUCTIONS FOR HAUL TRUCK BODY UP CABLE (TIE-BACK)



DANGER

- Avoid being **HURT OR KILLED!** Inspect cable before use!
- If you see damage, cable is in **DANGEROUS CONDITION!** **DO NOT USE!** Take cable out of service **IMMEDIATELY.**



CAUTION

- This product is only to be used by Personnel who have read and understood these Warnings and Operating Instructions.

Warning & Operating

Instructions for



APPLIED FIBER

HAUL TRUCK BODY UP CABLE

TO ORDER ADDITIONAL COPIES OF THESE WARNINGS AND INSTRUCTIONS CALL 1-850-539-7720, OR CONTACT YOUR DEALER

DANGER

- USE OF A DAMAGED, ABUSED, MISUSED, OVERUSED, OR IMPROPERLY MAINTAINED CABLE COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.
- FAILURE TO FOLLOW PROPER USE, CARE, AND INSPECTION GUIDELINES COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.
- USE ONLY IF YOU HAVE READ AND UNDERSTOOD ALL GUIDELINES FOUND IN THESE OPERATOR'S INSTRUCTIONS.

WARNING

This section covers only specific information that is in addition to the instructions and warnings noted throughout this manual. Be sure to review and understand this manual in its entirety to ensure safe use of this product.

- **ONLY** USE THIS CABLE FOR RETAINING THE RAISED TRUCK BED DURING MAINTENANCE OPERATIONS – DO NOT USE FOR ANY OTHER PURPOSE.
- **ALWAYS** INSPECT BEFORE AND AFTER EACH USE. ALL INSPECTIONS SHOULD BE PERFORMED BY A COMPETENT, QUALIFIED PERSON.
- **ALWAYS** WEAR APPROPRIATE SAFETY GEAR WHEN HANDLING THE CABLE.
- **ALWAYS** COMPLY WITH SPECIFICATIONS PRINTED ON CABLE HARDWARE, LOCAL AND STATE REGULATIONS.
- **ALWAYS** ENSURE CABLE HARDWARE IS ALIGNED, PULLING STRAIGHT WITH CABLE.
- **ALWAYS** ENSURE FREEDOM OF MOVEMENT BEFORE APPLYING LOADS.
- **ALWAYS** ENSURE NO POINT LOADING IS OCCURRING AT THE CONNECTION POINT.
- **ALWAYS** FULLY ENGAGE ANY LOAD PINS.
- **NEVER** ATTACH CABLE EYE WITH AN UNDERSIZED PIN.
- **NEVER** EXCEED THE SAFE WORKING LOAD LIMIT (WLL) PRINTED ON THE CABLE / FITTINGS.
- **NEVER** APPLY ADDITIONAL POWER OR LEVERAGE ON CABLE AS THIS MAY EXCEED THE DESIGNED SAFE WORKING LOAD LIMIT (WLL).
- **ALWAYS** ENSURE THE LENGTH IS TO FACTORY TRUCK SPECIFICATIONS – INCORRECT LENGTH MAY INCREASE LOAD AND EXCEED THE DESIGNED SAFE WORKING LOAD.
- **NEVER** THROW, DROP, OR DRAG CABLE / FITTINGS / HARDWARE.
- **NEVER** TWIST OR SIDELOAD CABLE OR FITTINGS / HARDWARE.
- **NEVER** USE CABLE FOR ANY OTHER PURPOSE OTHER THAN ITS INTENDED USE.
- **ONLY** USE TIE BACK ON THE TRUCK & BED THAT IT WAS INTENDED FOR.
- **NEVER** ATTEMPT TO ATTACH A CABLE IF IT REQUIRES ANY ADDITIONAL HARDWARE – THIS TYPICALLY INDICATES AN INCORRECT CABLE WAS SELECTED.

For additional copies, please see www.haultrucktiebacks.com or contact Applied Fiber.

- **NEVER** REORIENT THE FITTINGS TO A NON-FACTORY CONDITION – THIS TYPICALLY INDICATES AN INCORRECT CABLE WAS SELECTED.
- **ALWAYS** KEEP CABLE SETS PAIRED FOR TRUCKS REQUIRING TWO CABLES.
- **NEVER** USE A WORN OUT OR DAMAGED CABLE.
- **NEVER** APPLY HEAT TO THE CABLE OR FITTINGS.
- **NEVER** LEAVE CABLE ATTACHED TO A TRUCK. TYPICAL TRUCK CONDITIONS COULD DAMAGE A CABLE.
- **NEVER** USE OR STORE CABLE BELOW -40°F OR ABOVE 130°F.
- **NEVER** SHOCK LOAD THE CABLE.
- **NEVER** RUN OVER CABLE WITH TRUCKS OR OTHER EQUIPMENT.
- **NEVER** DEPEND SOLEY ON OVERLOAD INDICATORS AS OTHER FACTORS AFFECT BREAKING STRENGTH OF THE CABLE.
- **ALWAYS** STAND CLEAR OF THE LOAD AND NEVER RIDE ON A LOAD.
- **ALWAYS** ENSURE PORTIONS OF THE HUMAN BODY ARE NOT PLACED BETWEEN THE CABLE AND LOAD BEARING CONNECTION.
- **ALWAYS** KEEP CABLE CLEAR OF ANY CHEMICAL SPILLAGE AND SHARP EDGES.
- **ONLY** USE APPLIED FIBER SPECIFIED HARDWARE FOR CABLE-TO-TRUCK CONNECTION.
- **NEVER** USE FOR TOWING OR PULLING OUT A STUCK VEHICLE

INSPECTION GUIDELINES

WARNING: This section covers only specific information that is in addition to the instructions and warnings noted throughout this manual. Be sure to review and understand this manual in its entirety to ensure safe use of this product.

- a. **INITIAL INPSECTION:** This inspection should be made before any new or repaired cable is placed into service. It shall be inspected to ensure:

BEFORE INITAL USE:

- a. Check to ensure correct cable has been purchased, comparing the fitting types, fitting orientations, load rating and the length are appropriate for the intended truck. If incorrect, contact your dealer or Applied Fiber immediately and do not place the cable into service.
- b. Mark the cable jacket with the provided marker to ensure users can readily identify the cable with a particular truck type, configuration, or number.

WARNING: Failure to ensure the correct cable is used or providing visible operator markings could result serious injury or death. Do not allow use without “Initial Inspection” as outlined.

- b. **FREQUENT INSPECTION:** This inspection should be made before use by the person qualified to handle the cable.

BEFORE EACH USE:

- a. Check that the rated load is adequate and the proper cable has been selected.
- b. Inspect the cable jacket for cuts, holes, tears, snags, burns, or melting that expose yellow or white fibers underneath the protective yellow jacket.
- c. Further inspect cable jacket for signs of twist, bend, pressure point, or chemical damage.
- d. Inspect the cable fittings / hardware for distorted, cracked, gouged, pitted, or worn metal, chemical damage, corrosion damage, or loose connections.
- e. Further inspect cable fork fitting overload indicator (see "Operating Instructions and Safe Use Guidelines" section for details.)

WARNING: If this wear or damage is present, if load tag is missing or illegible, do not use cable and immediately contact safety personnel to ensure product is permanently removed from service.

- c. **PERIODIC INSPECTION:** This inspection should be conducted by qualified personnel only. Frequency of inspection should be based on frequency of use and severity of service conditions. Periodic inspections shall be conducted at least annually. The cable may be recertified by proof testing the cable as specified by OSHA 1910.184 and ASME B30.9 guidelines.

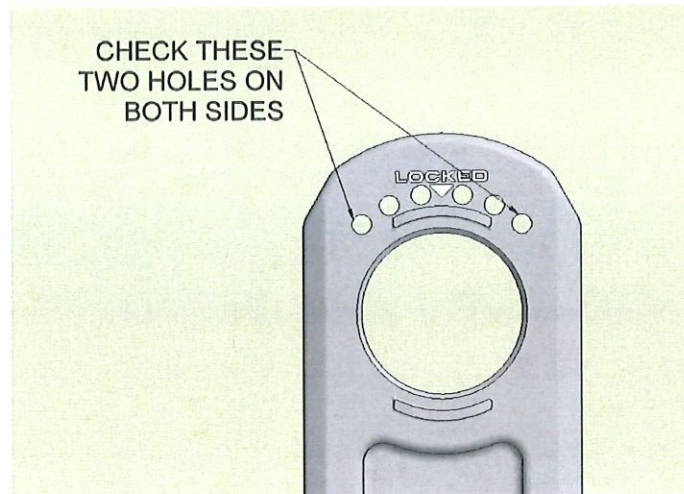
- a. Run full inspection on cable and fittings before and after each test, including the Overload Indicator found on the fork / clevis fitting (see "Operating Instructions and Safe Use Guidelines" section following for details).
- b. Always ensure the load on the fork is applied through the center to evenly load the Overload Indicator. Unevenly loading the fork fitting during a 2X Working Load proof load test could damage the fitting.
- c. Always ensure all fitting pins have been fully engaged.
- d. Pull the cable in a straight line while observing all safety precautions.
- e. Do not shock load the cable.
- f. Do not recertify to more than two (2) times the Working Load Limit WLL printed on the cable assembly.
- g. Inspect cable for damage and fittings for signs of yielding or damage.
- h. If cable is suspected to be damaged in any way, disassemble Cable Inspection Window to inspect core fibers. (see "Operating Instructions and Safe Use Guidelines" section following for details) If broken fibers are present, the cable is damaged and should immediately be removed from service and destroyed.
- i. Document findings as required.

WARNING: Do not attempt to unscrew fittings from cable as this could damage the cable. These parts are only designed to be removed by Applied Fiber. Immediately remove any damaged cable from service.

USING THE OVERLOAD INDICATION FEATURE



The cable is equipped with an overload indicator which is used to indicate if the cable has been significantly overloaded to 170,000 or above. The fork is equipped with 12 holes, 4 of these must be checked on a regular basis to help ensure that the cable has not been overloaded and indicating that it is unsafe for further use. Each cable is shipped with a special cleaning brush and a .2475" + gauge pin to test the fork for overload. If these parts are ever lost or damaged, contact your local dealer or Applied Fiber for replacement parts. Carefully follow the following procedure when using the Overload Indication Feature:



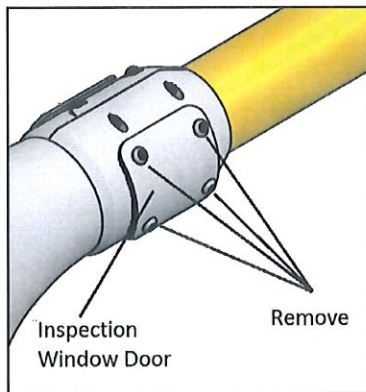
- Insert the cleaning brush through the outermost 4 holes in the ends of the fork before inserting the gauge pin.
- Insert the gauge pin using only hand pressure into each hole. With a clean hole, the pin should slip completely through the hole with no significant binding or extra force.
- The pin should fit cleanly through each of the 4 holes, any significant binding or failure of the pin to fully pass through the hole is indicative of an overload condition.
- If an overload condition is found, immediately discontinue use of the cable.
- Return the brush and gauge pin to a clean, dry location for future testing. Please note that the gauge pin is a precision instrument and must be protected from damage to continue working effectively.

WARNING: Do not use the cable if overload is indicated – cable failure can occur. Never depend solely on overload indication features as other factors affect the breaking strength of cable.

USING THE INSPECTION WINDOW

The cable is equipped with an inspection area at the base of each anchor that can be removed to inspect the cable core. Carefully follow the following procedure when using the Inspection Window.

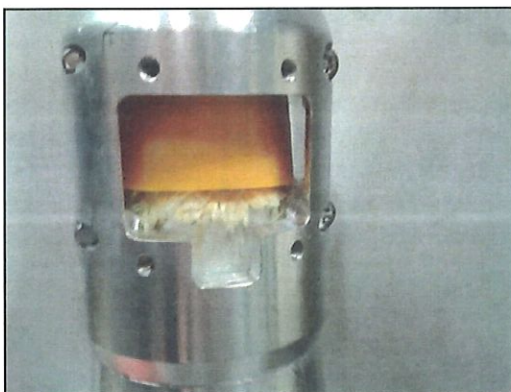
- Work in a clean area where the cable can be laid flat or the fittings can be hanging down.
- Carefully remove the 4 tamper-resistant screws (use tool supplied) of each Inspection Window door (2 per end) to reveal the window (refer to image A)
- Do not mix or change doors – each door is matched to its specific clamp and must not be separated.
- Inspect the exposed cable core for broken white fibers or cracks (acceptable cores are shown in images B-D)
- Carefully re-attach the same 2 doors by gradually tightening the screws in a rotating fashion until the door is tight and sealed against the clamp.



(A)



(B)



(C)



(D)

WARNING: Do not use the cable without these Inspection Window clamps in place and do not use cable if fitting alignment does not match the original manufactured position. Cable failure can occur if these clamps are not on the cable or the fittings are improperly aligned. Do not use any form of chemical spray to conduct this process.

For additional copies, please see www.haultrucktiebacks.com or contact Applied Fiber.

For additional information, please refer OSHA 1910.184, ASME B30.9, or other regulations as applicable.

OTHER OPERATING INSTRUCTIONS AND SAFE USE GUIDELINES

WARNING: This section covers only specific operational information that is in addition to the instructions and warnings noted throughout this manual. Be sure to review and understand this manual in its entirety to ensure safe use of this product.

Cable fitment: Correct cable sizing is formed when the cable fits directly to the connection points when the bed is fully raised. The cable may be as much as 8" longer than the connection point as long as no binding or angle is formed through the cable and fittings. The eye fitting must not exceed a 15 degree angle to the attachment pin during installation.

Haul Truck Tie-Back Installation Guidelines

CORRECT

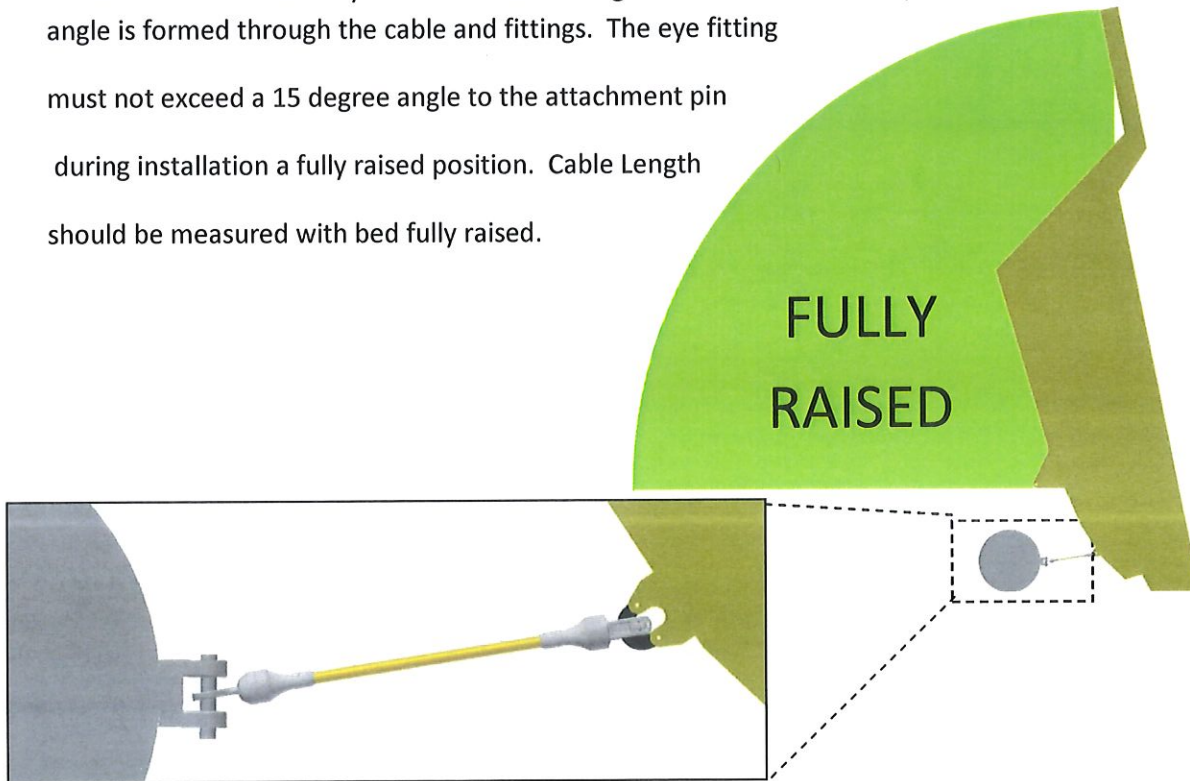
Cable is designed to only be used when

the bed is inThe cable may be as much as 8" longer than the connection point as long as no binding or angle is formed through the cable and fittings. The eye fitting

must not exceed a 15 degree angle to the attachment pin

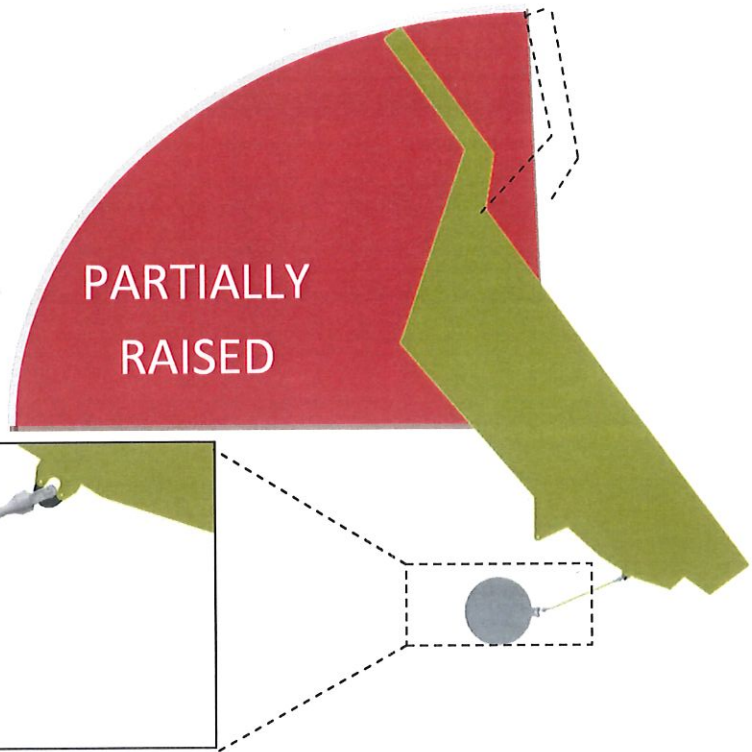
during installation a fully raised position. Cable Length

should be measured with bed fully raised.

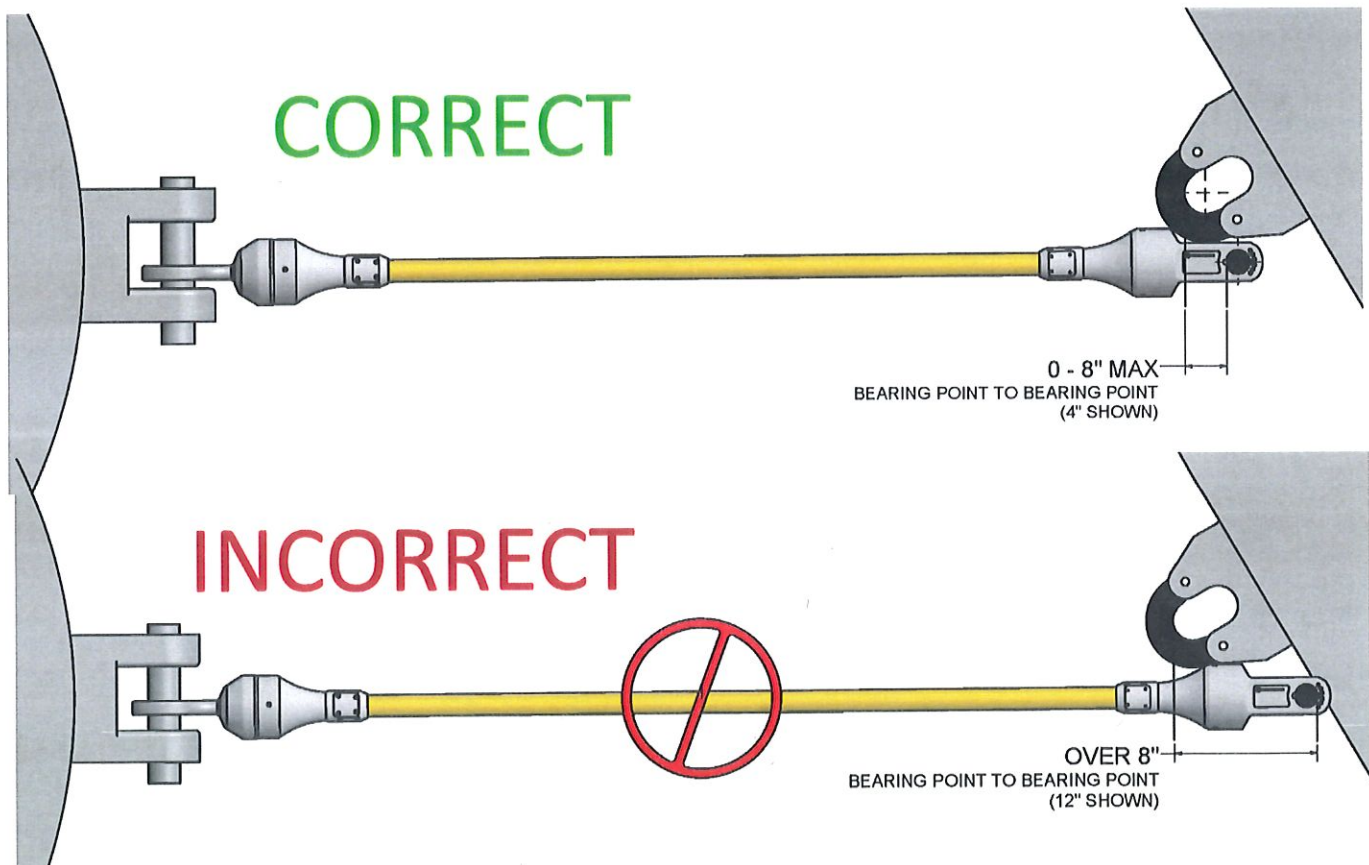


INCORRECT

Longer cables used to lay the bed down partially can create unsafe loading and bending conditions. Cables used in this manner are not considered safe for use.

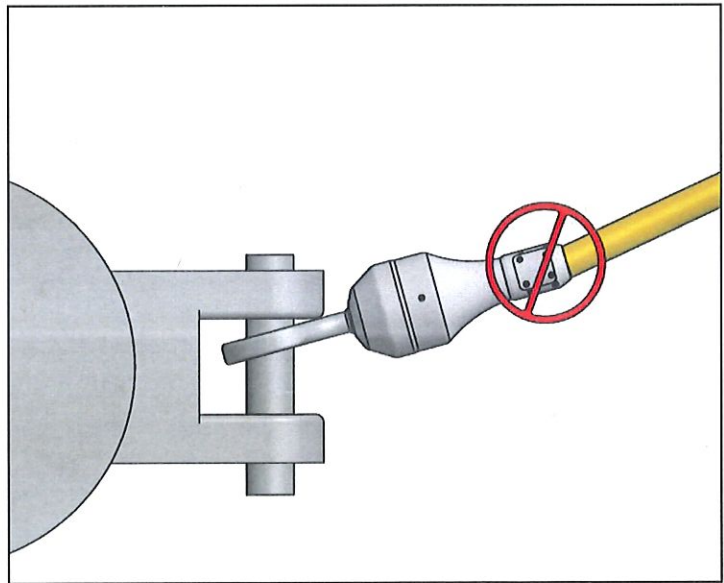
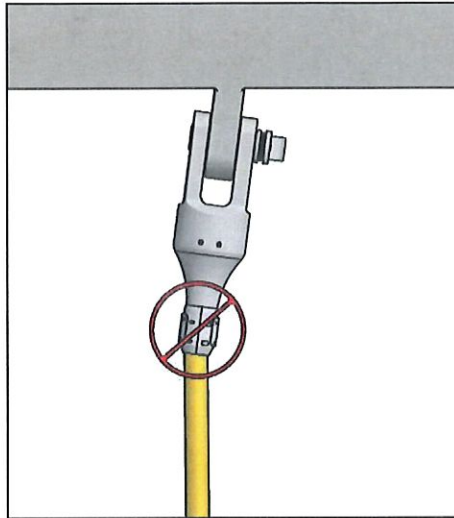
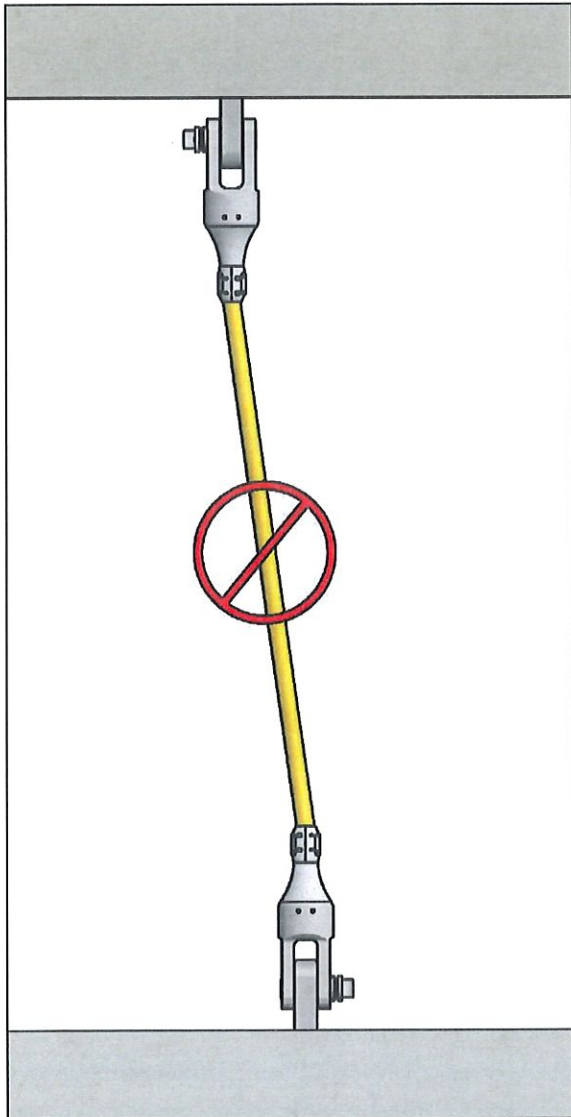
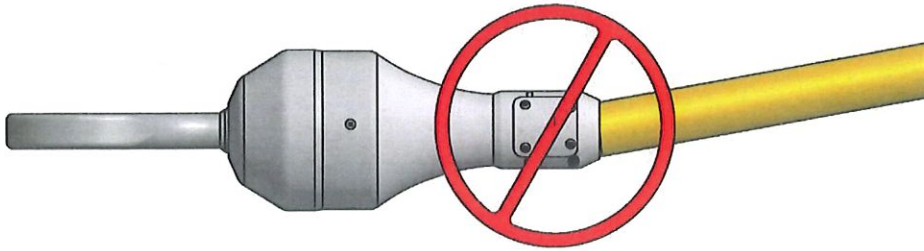


The cable may be as much as 8" longer than the connection point as long as no binding or angle is formed through the cable and fittings. The eye fitting must not exceed a 15 degree angle to the attachment pin during installation

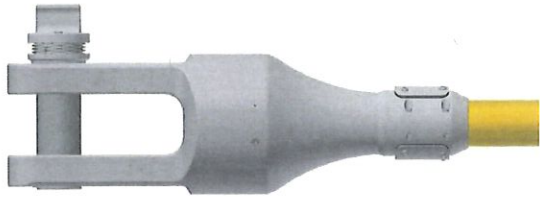


For additional copies, please see www.haultrucktiebacks.com or contact Applied Fiber.

Considerations during cable attachment: The cable and fittings must pull in a straight line, causing no angle to be held in the fitting or cable. Do not attach cable to bent lifting points or allow the cable to form a severe enough angle to bind or travel beyond 15 degrees at the eye connection.



FORK QUICK-PIN FITTING OPERATION



The fork has been designed and manufactured to be used only in a straight pull configuration. Always ensure the cable will be loaded straight and that no pressure points or stress concentrations exist.

The Fork Quick-Pin has been designed to connect straight to the truck without any shackles. In order to operate the Quick-Pin assembly, first push in on pin to compress the spring and then rotate 180 degrees. The locking pin will pass through the recess in the fork arm to allow the pin to retract. For reinstallation, push the pin back through the slot, compress the spring and rotate 180 degrees until the locking pin drops into the recess - causing the pin to lock in place.

WARNING: Always ensure the pin is locked into place prior to any potential loading conditions. Review and understand all enclosed warnings and instructions before using product to ensure proper care, installation and safe use.

EYE FITTING OPERATION



The Eye Fitting has been designed and manufactured to be used only on the truck and bed arrangement that it was built for. The typical application of this fitting is on a vertical pin setup at the truck's rear axle. The fitting was designed to be used at a maximum off horizontal angle of 15 degrees. Any more can significantly reduce strength could result in failure. Utilizing the incorrect cable or fitting can cause cable failure.

WARNING: Do not disassemble assembly and only use Applied Fiber supplied hardware. Always ensure the assembly is fully intact prior to any potential loading conditions. Review and understand all enclosed warnings and instructions before using product to ensure proper care, installation and safe use.

USING PAIRED CABLES

Some trucks require two cables to support the bed, and these "Paired Cables" are built together as sets with very close length tolerances. These cables are to be used only as a pair. For safety reasons do not remove the paired cable markings or use each cable separately.

STORAGE AND HANDLING CARE

Cable and/or Fittings should never be dragged, dropped, or thrown. This product is not designed to stay outside – store in a clean area away from direct sunlight, chemicals, salt, or extreme temperatures. Cable may be placed in a bend but should not be bent forcefully as such bending may damage the cable.

ENVIRONMENTAL CONSIDERATIONS

The load bearing materials in this product are HMPE, Steel, and Aluminum. The following is a brief guide to the sensitivities associated with each.

- **HMPE CABLE:** The core strength member used in this product is HMPE, which is generally resistant to most industrial chemicals but does lose strength with Clorox or chlorine and limonene, a citric based degreaser.
- **STEEL AND ALUMINUM FITTINGS / HARDWARE:** Aluminum is severely degraded by alkali, caustic and acidic environments. Salt water also degrades aluminum. Aluminum should never be exposed to chlorine environments or cleaned with chlorine based solutions. Steel hardware is similarly not impervious to these elements.

WARNING: Chemically active environments can affect the strength of synthetic cables in varying degrees from none to total degradation. Applied Fiber should be consulted directly before cables are used in chemically active environments.

REPAIR GUIDELINES

The fittings are not designed to be removed from the cable, however if any fitting becomes loose or begins to unthread, immediately put a drop of thread locking compound on the threads and retighten the fitting until it is fully seated. This simple form of repair is important to ensure the fittings retain their original position.

The only permissible repair to the cable section is the yellow protective jacket. This exterior jacket repair can be accomplished using a number of readily available materials. For quick temporary repairs the use of yellow electrical tape can be an effective way to protect the core strength member. For more permanent repairs, use GE MD/SIKA Polyurethane adhesive/sealant. Please consult your dealer or Applied Fiber if needed.

The steel pin, bolt, and spring can be replaced at any time by qualified personnel. Please consult your dealer for more information on replacement components.

WARNING: Never attempt to remove fittings from cable as this can damage the cable. The end fittings are designed to only be removed by Applied Fiber. Do not attempt any repairs beyond what is stated above.

NOTICE: If any questions or comments arise out of any of the associated materials enclosed herein, please contact other qualified personnel, your dealer, and/or Applied Fiber directly at 850-539-7720 or haultrucktiebacks.com.

LEGAL NOTICE: GENERAL CAUTIONS AND WARNINGS

All products supplied and manufactured by APPLIED FIBER are sold with the express understanding that the purchaser is thoroughly familiar with the safe and proper use and application of the product.

Responsibility for the use and application of the products rests with the user.

Failure of the product can occur due to misapplication, abuse, or improper maintenance. Product failure could allow the load to become out of control, resulting in possible property damage, personal injury or death.

There are numerous government and industry standards that cover products sold by APPLIED FIBER. These guidelines make no attempt to reference all of them.

Ratings shown by APPLIED FIBER in literature or website are applicable only to new or "in new condition" products.

Load limit ratings indicate the greatest force or load a product can carry under usual environmental conditions. Shock loading and extraordinary conditions must be taken into account when selecting products for use in a system.

In general, the products in APPLIED FIBER literature or on websites are used as parts of a system being employed to accomplish a task. Therefore, we can only recommend within the Working Load Limits, or other stated limitations, the use of products for this purpose.

The WLL (Working Load Limit), or Design Factor, or Efficiency Rating of each APPLIED FIBER-supplied product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions. Regular inspection must be conducted to determine whether use can be continued at the catalog assigned WLL, a reduced WLL, or whether the product must be withdrawn from service.

APPLIED FIBER products are generally intended for straight tension or pull. Side loading must be avoided, as it exerts additional force or loading which the product is not designed to accommodate.

The Working Load Limit of a cable assembly must not exceed the lowest Working Load Limit of the components in the system.

STATEMENT OF LIMITED WARRANTY

Applied Fiber Haul Truck Body Up Cables / Tieback Cables

Applied Fiber Manufacturing, L.L.C. ("AF") warrants to each authorized distributor, authorized dealer, and original retail purchaser that the product sold conforms to AF's published specifications at the time of shipment by AF or those specifications agreed to in writing by AF before shipment by AF. AF's obligation and liability under this warranty is expressly limited to repairing or replacing, at AF's option, within ninety (90) days from the date of purchase, any product not manufactured to applicable specifications.

Within the specified warranty period, AF will repair or replace, at its option, any part(s) that appear, to its satisfaction, to have been not in accordance with the applicable specifications. AF will refund to the purchaser the purchase price if the defect in the product is one covered by this warranty and AF is unable, by repair or replacement, to make the product perform to specification. This warranty does not obligate AF to bear any transportation, removal, or installation charges in connection with the inspection, repair, or replacement of defective parts. AF's obligation under this warranty shall not include any liability for direct, indirect, or consequential damages or delay. The limited warranty contained herein is the purchaser's exclusive remedy.

To obtain warranty service, the purchaser must deliver the product or the defective part(s) to AF or other point designated by AF. Shipping expenses are the purchaser's responsibility. The purchaser should contact AF at the following address to obtain a Return Material Authorization (RMA) number and return instructions: Applied Fiber, 25 Garrett Drive, Havana, Florida 32333 (850) 539-7720.

This warranty does not cover any defects or costs caused by: (1) corrosion, normal degradation, or wear and tear; (2) failure to inspect or repair; (3) use under conditions that exceed performance specifications or safe working loads; (4) modification or alteration; (5) physical abuse to, or misuse of, the product or operation thereof in a manner contrary to applicable AF instructions; (6) any use of the

product other than that for which it was intended as indicated. AF reserves the right to modify, alter or improve this product, or parts thereof, at any time without incurring an obligation to modify, alter, improve or replace any product, or parts thereof, previously not sold.

THE WARRANTY PRINTED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PURCHASE; THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH BUT FOR THE WARRANTY CONTAINED HEREIN MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURCHASE. IT IS UNDERSTOOD AND AGREED THAT AF'S LIABILITY AND PURCHASER'S SOLE REMEDY, WHETHER IN CONTRACT, UNDER ANY WARRANTY, IN TORT (INCLUDING NEGLIGENCE), IN STRICT LIABILITY OR OTHERWISE SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER, AND UNDER NO CIRCUMSTANCES SHALL AF BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, DAMAGE TO OR LOSS OF EQUIPMENT, LOST PROFITS OR REVENUE, COSTS OF RENTING REPLACEMENTS AND OTHER ADDITIONAL EXPENSES, EVEN IF AF HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRICE STATED FOR THE PRODUCT IS A CONSIDERATION IN LIMITING AF'S LIABILITY.

Complete Agreement: This Warranty between purchaser and APPLIED FIBER is complete. All prior or contemporaneous discussions, representations and/or understandings are merged into this warranty. All prior or contemporaneous agreements between parties are superseded by this Warranty.