



DURACOMM^(TM) CONSIDERATIONS AND INSTALLATION

- All lifelines are performance oriented and proper planning will be beneficial before starting the installation.
- The lifeline will be of most value during times of low visibility. The ultimate test of proper installation will be the ability to walk the lifeline with your eyes closed. Careful consideration to the following should be taken:
 - ✦ Follow a path void of stumbling hazards at least four foot left and right of line.
 - ✦ If the path chosen does not match *exactly* the mine escape way map then document all changes.
 - ✦ Proper training of employees as to the location of the lifeline and signals contained on the lifeline are essential for proper use during evacuation. Duracomm(tm) is different from other types of lifeline due to the fact that tactile directional indicators are installed only on the reflectors placed at 25' intervals.
 - ✦ Proper training to reinforce the correct usage of Duracomm(tm) as a lifeline is strongly recommended.
 - ✦ When obstructions such as overcast, bridges, water holes or rock falls cannot be avoided then warning indicators of such should be installed on the line. Feel free to contact us about various methods available.
 - ✦ Keep the line straight when possible and avoid tight turns. Never tension the cable through turns. Use additional strain clamps when needed.

WARNING

- Duracomm(tm) is a signal cable and therefore contains two electrical conductors.
- Never allow Duracomm(tm) to come in contact with other electrical cables or electrical equipment.
- Consult local and federal regulations concerning conductors exiting the mine. We recommend using a high-quality lightning arrester.

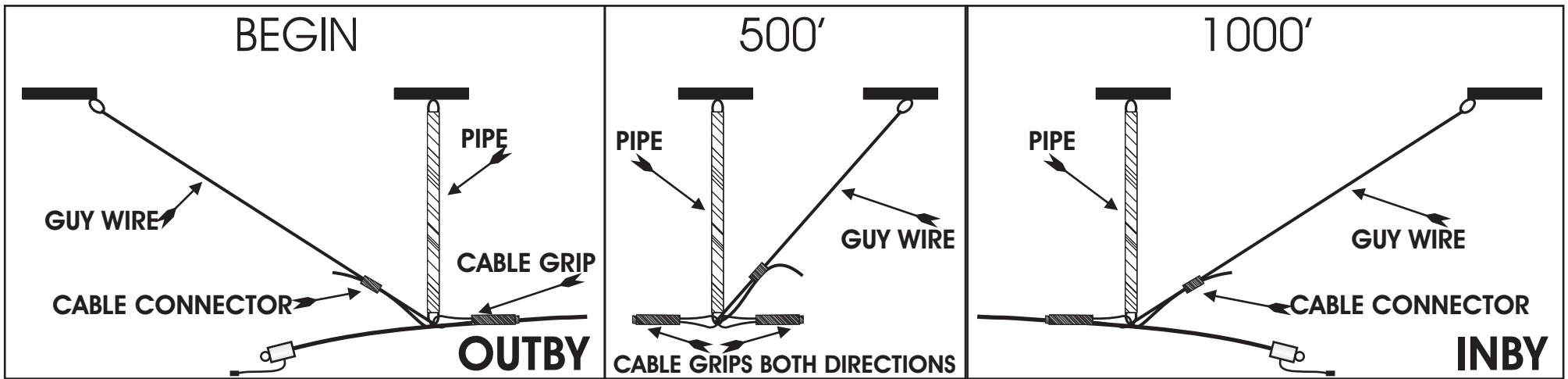
Installation

Duracomm(tm) should be installed going from the surface toward face. Begin by hanging the reflectors on every sixth row of bolts (24 feet) or to extension cables when required paying attention to place the reflective side to be seen when looking toward direction of escape. Note. Reflectors will straighten when cable is placed through the hook. Continue installation of reflectors for 500' feet. Return to cable. Install a strain clamp on cable leaving about two feet of slack then attach to first hanger. Pull cable tight as the cable in unwound from the reel. Cable will snap into all hangers. At about 500 feet install two of the strain clamps, one in each direction. Proceed until all cable is pulled from the reel. Install last strain clamp leaving enough cable loose for the next connection. At the end of the cable, mechanically connect this section of cable to the next using the supplied snap hook and make the electrical connection using the waterproof connectors.

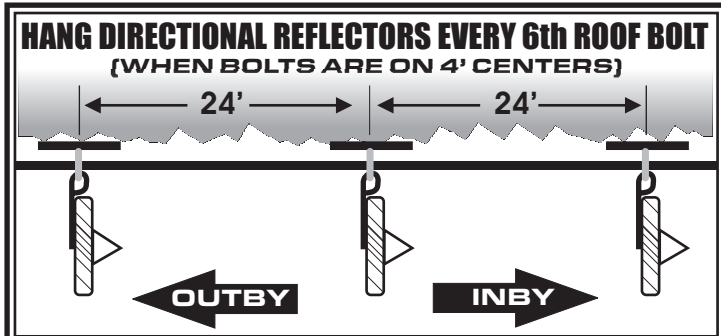
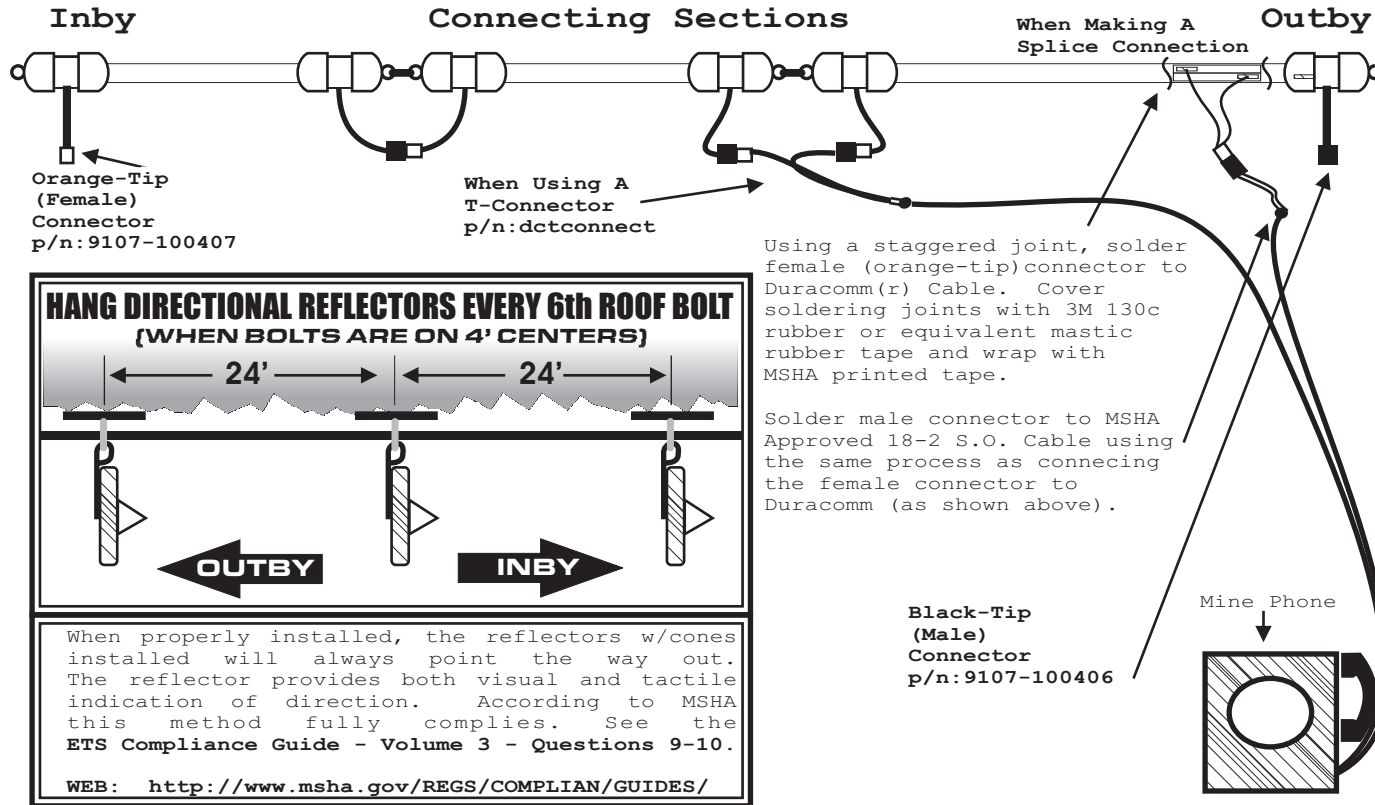
Maintain end of cable location to MSHA and STATE requirements.

If you have questions about installation feel free to call us at 304-855-7080. We have numerous hardware items to fit your specific installation needs. Additional delineator kits as well as hooks, cable grips, and connectors may be purchased seperately.

See <http://www.minelifeline.com> on the web for details and pricing.



MAKE MECHANICAL CONNECTION WITH SNAP HOOK AND EYE BOLT AND THEN CONNECT ELECTRICAL CONNECTORS, PROCEED.

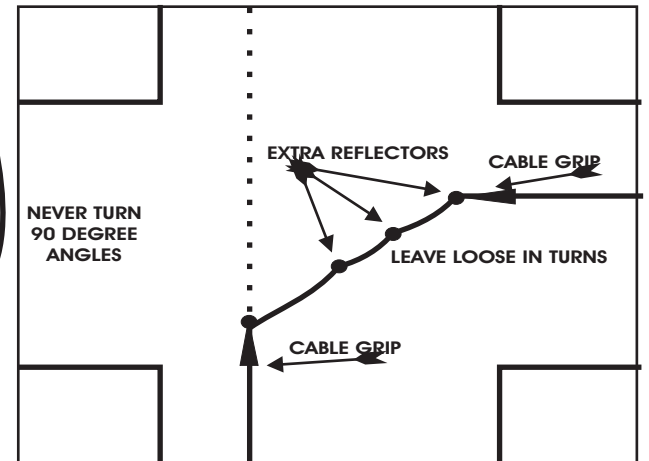
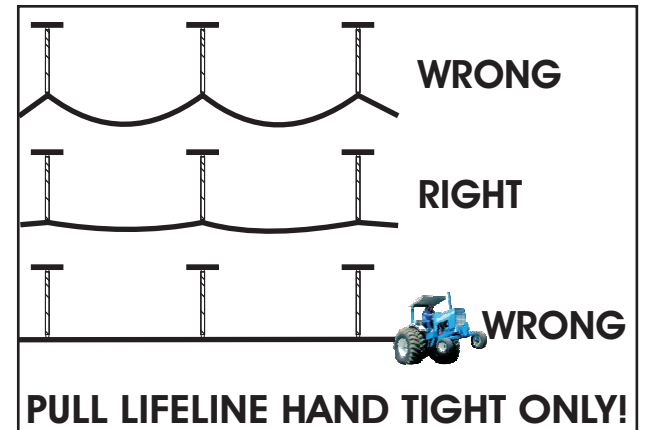


Using a staggered joint, solder female (orange-tip) connector to Duracomm(r) Cable. Cover soldering joints with 3M 130c rubber or equivalent mastic rubber tape and wrap with MSHA printed tape.

Solder male connector to MSHA Approved 18-2 S.O. Cable using the same process as connecting the female connector to Duracomm (as shown above).

When properly installed, the reflectors w/cones installed will always point the way out. The reflector provides both visual and tactile indication of direction. According to MSHA this method fully complies. See the ETS Compliance Guide - Volume 3 - Questions 9-10.

WEB: <http://www.msha.gov/REGS/COMPLIAN/GUIDES/>



QUESTIONS? GIVE US A CALL - 304-855-7080
MINE LIFELINE, LLC



LIFELINE CONSIDERATIONS AND INSTALLATION

- All lifelines are performance oriented and proper planning will be beneficial before starting the installation.
- The lifeline will be of most value during times of low visibility. The ultimate test of proper installation will be the ability to walk the lifeline with your eyes closed. Careful consideration to the following should be taken:
 - ✦ Follow a path void of stumbling hazards at least four foot left and right of line.
 - ✦ If the path chosen does not match *exactly* the mine escape way map then document all changes.
 - ✦ Proper training of employees as to the location of the lifeline and signals contained on the lifeline are essential for proper use during evacuation.
 - ✦ When obstructions such as overcast, bridges, water holes or rock falls cannot be avoided then warning indicators of such should be installed on the line. Feel free to contact us about various methods available.
 - ✦ Keep the line straight when possible and avoid tight turns. Never tension the cable through turns. Use additional strain clamps when needed.

WARNING

- Your lifeline contains a steel cable for strength and durability which is a conductor of electricity.
- Never allow the lifeline to come in contact with electrical cables or electrical equipment.
- Never extend the steel lifeline closer than 50 feet of mine opening. Use of poly rope for the last 50 feet is recommended.
- DO NOT anchor lifeline to any metallic structure than extends to surface of mine.

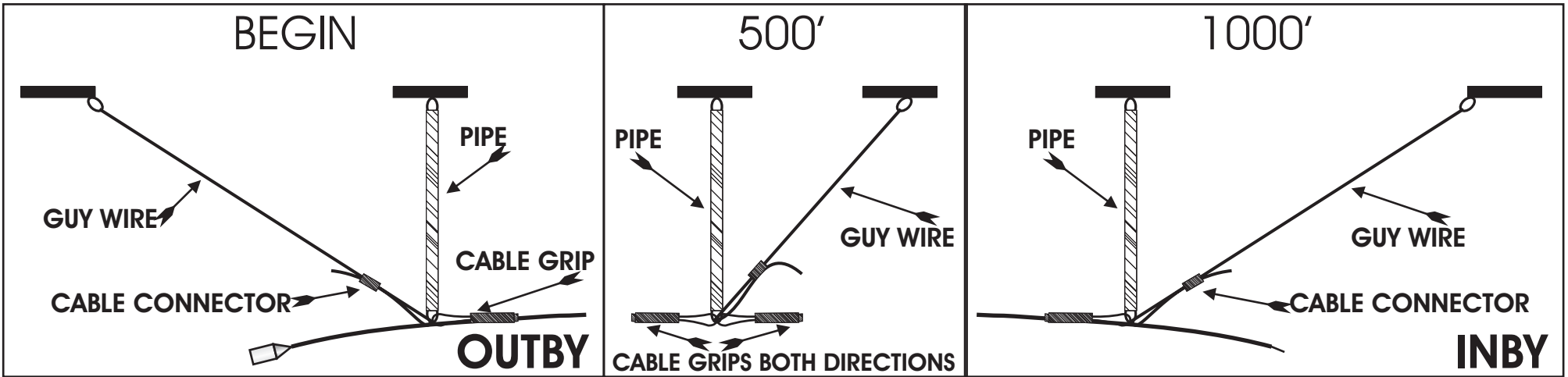
Installation

Our lifelines are installed going from surface toward face. Begin by hanging the reflectors on every sixth row of bolts (24 feet) or to extension cables when required paying attention to place the reflective side to be seen when looking toward direction of escape. Note, reflectors will straighten when cable is placed through hook. Continue installation of reflectors for 500' feet. Be sure to use the doubled sided man door locators if provided in your kit at man door locations. Return to cable. Install a strain clamp on cable leaving about two feet of slack then attach to first hanger. Pull cable tight as the cable in unwound from reel. Cable will snap into all hangers. At about 500 feet install two of the strain clamps, one in each direction. Proceed until all cable is pulled from reel. Install last strain clamp leaving enough cable loose for the next connection. The end of the cable has had the vinyl removed for two inches and will be installed into the next cable.

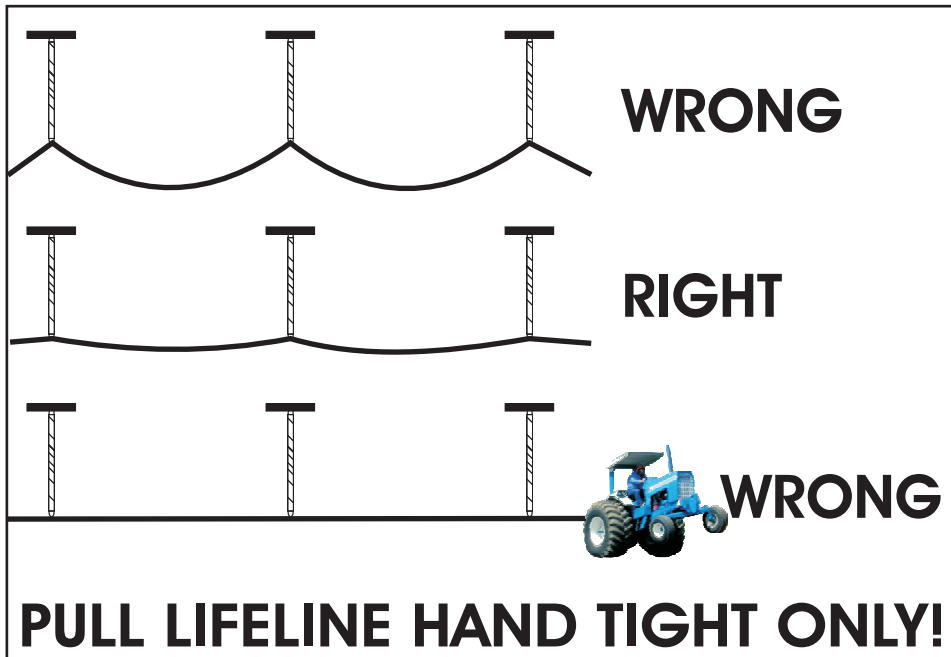
Maintain end of cable location to MSHA and STATE requirements.

If you have questions about installation feel free to call us at 304-239-6300. We have numerous hardware items to fit your specific installation needs. Additional delineator kits as well as hooks, cable grips, and connectors may be purchased separately.

See <http://www.minelifeline.com> on the web for details and pricing.



INSTALL TRIMMED END INTO CABLE CONNECTOR OF NEXT REEL AND ADD CABLE GRIP, PROCEED.



PULL LIFELINE HAND TIGHT ONLY!

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