

MATCOR Mitigator® Splice Instructions



READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

Communication

If you observe damage to any of the materials, inform MATCOR and/or the shipper as soon as possible. MATCOR recommends that splicing be done by MATCOR or a trained professional familiar with field cable splicing.

Important Safety Message

Please wear required PPE for the designated location, including eye protection safety glasses and cut-resistant gloves.

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What You Will Need:

1. Mitigator Section
2. #2 AWG HMWPE Cable
3. Cable Stripper
4. Wire Cutters
5. Small Container for Powerfill (a paper cup works very well)
6. Electrical Tape
7. 4" long Butt Splice Connector for #2 wire
8. Crimping Tool
9. Heat-Shrink Tubing
10. Heat Gun or Other Heating Device



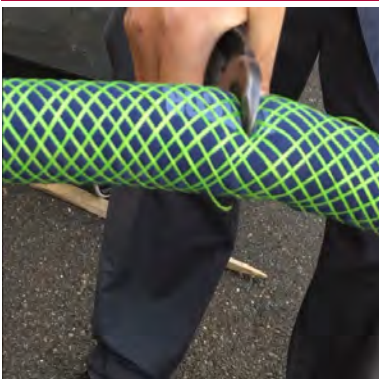
Field Cutting Mitigator

The purpose of this section is to describe the general procedures to be followed when Mitigator requires splicing. The installation contractor should thoroughly familiarize themselves with the cutting requirements and review any other additional information that may be required prior to commencing the work.

Instructions:



- 1.** Use the cable stripper to remove about 2" of vinyl jacket from the #2 HMWPE cable, exposing bare copper wire.



- 2.** Use the cutting tools to cut completely through the Mitigator braiding, fabric housing, Powerfill (see #3 for instructions on preserving the Powerfill) and internal copper wire to yield two pieces.

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- 3.** With one hand, grasp one end of the Mitigator 12" back from the cut end and pour out the Powerfill to that point. (Pour the backfill into a container that will be easy to use to pour back into the Mitigator later.) Pull back the outer fabric covering and braiding, but do not cut off. Trim off 6" of the bare copper cable that you have just exposed.



- 4.** Place the exposed ends of the #2 HMWPE cable and the bare #2 copper of the Mitigator into opposite ends of the butt splice connector. Use the proper crimping tool to crimp the connection.



- 5.** Slip the heat shrink tube over the connection and **SAFELY** use the heat gun or heating device to seal the heat shrink around the connection.



- 6.** When the seal has cooled, pull the fabric sleeve of the Mitigator back up over the spliced and sealed area.

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- 7.** Carefully pour the reserved Powerfill to fill in the fabric sleeve, shaking to compress as tightly as possible. Dispose of any excess Powerfill in accordance with regulations and requirements.



- 8.** Gather the cut ends of the fabric and braiding securely over the connection you have just created. Wrap with electrical tape to secure the Powerfill in the sock and to clean up the ends.



- 9.** The finished Mitigator splice.
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Questions or Assistance

Please contact MATCOR for questions or assistance.

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