

# Field installable cable splice kit



Installation instructions  
IL42-5035B

## General

The field installable cable splice kit (Elster part number EW200000010) is used to splice and effectively moisture-seal cables containing up to 3 conductors. The kit includes the following:

- 3 gel splices
- 3 nylon cable ties
- 1 gel-filled insulator tube

The kit can be used to replace the pit water transponder without removing or replacing the meter or register.

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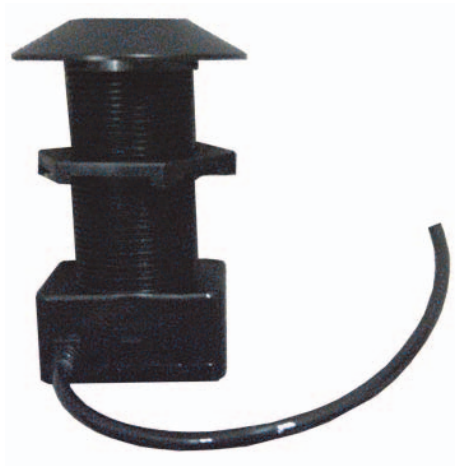
### NOTICE

This splice kit is for underground use only. Prolonged exposure to ultraviolet light may deteriorate the chemical composition used in the connector material.

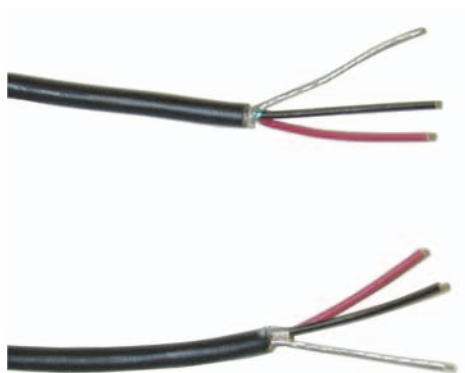
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Use the following procedure to splice and seal the cables:

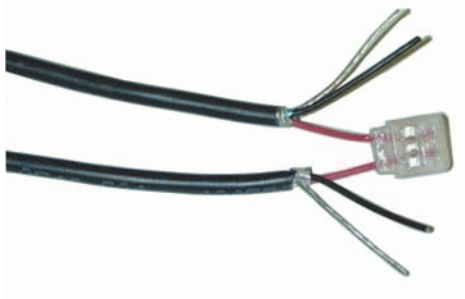
- 1 Using a pair of wire cutters, cut the cable that connects the pit water transponder to the register. Be sure to leave about 12 inches (305 mm) remaining on the transponder. This will assist failure analysis should the transponder ever need to be returned to Elster.



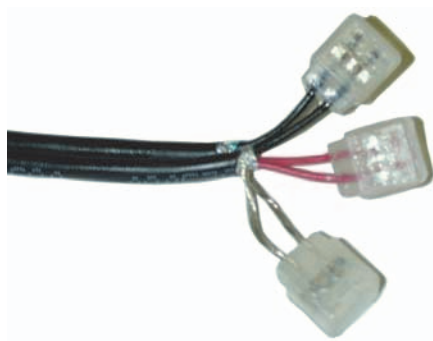
2. Using a pair of wire strippers, strip approximately 1 inch (2.5 mm) the outer jacket of the two cables to be spliced. It may be necessary to cut off the foil shield so that the red wire and black wire are exposed. Be sure that the wire ends are trimmed flush.



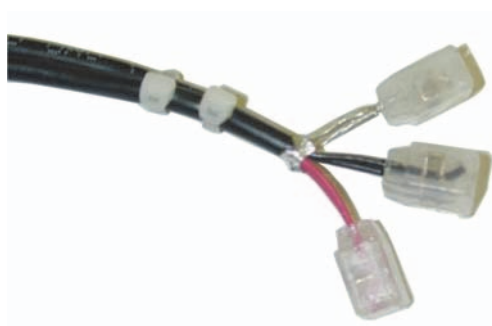
3. Insert the red wires into the wire holes of a gel splice connector. The end of the wires should touch the back of the connector. Press the connector halves together to help hold the wires in place for termination.
4. With a pair of pliers, crimp down on the connector until both halves of the connector are fully pressed together. Be careful not to shift the wires during the crimping process.



5. Splice and crimp the black wires together and the bare wires following the steps as described in steps 3 and 4.



6. Provide strain-relief by securing the two cables together using the cable ties.



7. Arrange the gel splices along the cables in a single column. Be sure that the bare wire splice is aligned down the cable (left-most splice in the following illustration). Because the bare wires are not insulated, they are not as rigid as the others. With the bare wire splice facing down, it will be easier to insert into the insulator tube.



8. Insert the splices into the gel-filled insulator tube. Push the splices into the tube as far as they will go.



9. Close the insulator tube. Be sure that the cables exit the tube from opposite sides.



10. Provide strain relief by securing the outer cables together using the remaining cable tie.



The insulator tube is waterproof, and it can be placed at the bottom of the pit.

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