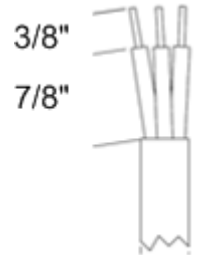
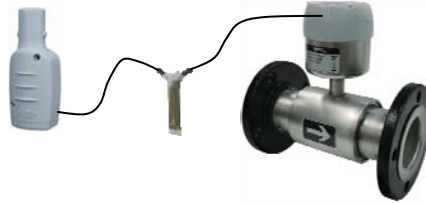




# Connecting an evoRTM Endpoint to an evoQ4 Register

The following procedure illustrates how to connect an evoRTM Endpoint to an evoQ4 Register in the field. The procedure involves the following main steps:

1. Wire preparation
2. Wire splicing
3. Splice moisture proofing

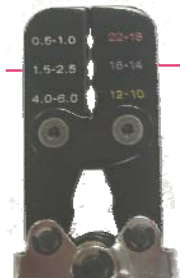


**Tools and Materials:**

- Wire stripper – Recommend Klein Tools Katapult Wire Stripper AWG 8 to 22, or equivalent
- Splice crimping tool – EAW #2523Q0015 or Control Cycle Cat. No. 94230 by FTZ Ind.
- Splices - Cool Seal Butt Splice 16-14AWG – EAW #2523Q0014 or Cat. #33330 by FTZ Ind.
- Grease Tube – EAW #2523Q0001, DBR 3M grease tube

**Procedure:**

1. Prepare the cable wires.
  - a. Cut the evoQ4 cable and the evoRTM cable to the needed combined length.
  - b. Use the Katapult wire stripper to remove 1 ¼” of jacket from each cable end. Use the #8 blade position.
  - c. Use the Katapult wire stripper to strip each wire so 3/8” of bare wire is exposed. Use the #20 blade position. Do not nick the wires.
2. Pair and twist wires together as indicated in the tables below and according to the type of register (pulse, encoder).
3. Insert the twisted pairs each into a butt splice connector ensuring that the insulation of the wires is inside the connector.
4. Crimp the twisted wire assembly using the ratchet crimp tool by placing the splice metal shell and wire assembly firmly into the center position [ 1.5-2.5 / 16-14 ].
5. Repeat for all three wire pairs. If this is an outdoors, or pit, application, insert them as a group into the grease tube all the way to the bottom to ensure that the wire/crimp housings are completely buried within the grease.
6. Secure connected cable assemblies within the grease tube by routing the cables to fit into the V-entries at the cover. Latch tube cover. Orient the grease tube vertically as shown in the picture to the right.



Connection	evoQ4 MX39 Pulsar			
	Green (Common)	Black (Tamper)	Red (Chan. 1)	White (Chan. 2)
sRTM (pulse)	Red	Green	Black	N/A

Connection	evoQ4 MX39 Encoder		
	Red (Data)	White (Power)	Black (Common)
sRTM (encoder)	Red	Green	Black