

TraceTek TT-7000-HUV-CK-MC-M/F

FIFLD INSTALLED CONNECTORS FOR TRACETEK 7000-HUV BULK CABLE INSTALLATION INSTRUCTIONS



NOTES

- The pin connector should always be installed on the cable end going to the alarm module.
- Use with TT7000 sensing cable only. This kit is not compatible with other TraceTek sensing cables.

KIT CONTENTS (5 M and 5 F connectors)

Item	Qty	Description
A	5	TT-CK-MC-M pin connector with spinner ring
В	5	TT-CK-MC-F socket connector
С	45	SolderSleeve® splices (5 extra)
D	11	Heat-shrinkable tubing, labeled SCT (1 extra)
E	11	Heat-shrinkable tubing, unlabeled (1 extra)
F	1	TT-MET-MC Pin end termination
G	1	TT-FET-MC Socket end termination
Н	1	Pin and socket test tool

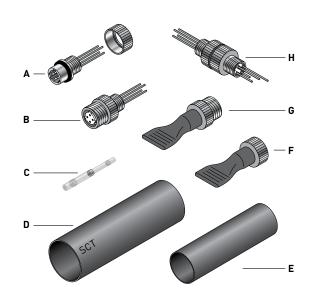
DESCRIPTION

These instructions describe field connecting of TT7000-HUV Bulk Sensing Cable.

For technical support call Pentair Thermal Management at (800) 545-6258.

TOOLS REQUIRED

- TT-ULTRA-TORCH (PN 390067-000) flameless heating tool (Ultratorch 200) or suitable heat gun with concentrator tip.
- Greenlee stripper (1918) or equivalent for 26 AWG and 28 AWG wire
- High impedance ohmmeter (Fluke 87 or equivalent; meter must be capable of measuring to at least 20 megohms)
- Needle nose pliers
- Razor blade or utility knife
- Small pair of wire cutters
- 3/4 inch masking tape
- Butane lighter
- · Permanent ink marker
- TT-CT-SCT crimp tool (PN 644333-000)



/ WARNING:

FIRE HAZARD. Heat guns and flameless heating tools can cause fire or explosion in hazardous areas. Be sure there are no flammable materials or vapors in the area before using these tools. Follow all site safety guidelines when working in hazardous areas.

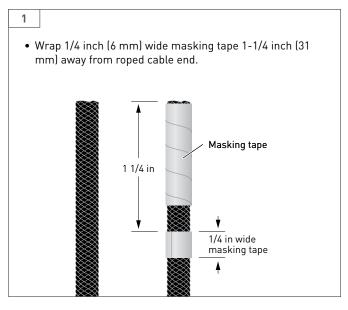
Component approvals and performance are based on the use of specified parts only.

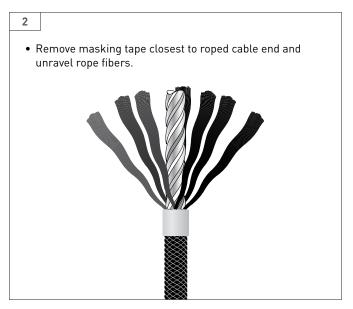
(CAUTION:

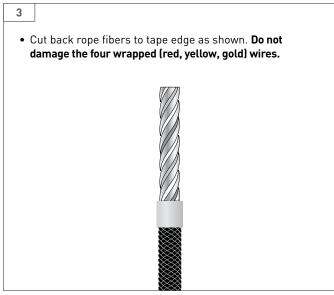
HEALTH HAZARD. Overheating heat-shrinkable tubing or SolderSleeves will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 and RAY5103 for further information.

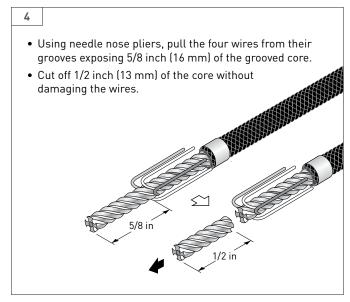
CHEMTREC 24-hour emergency telephone: (800) 424-9300

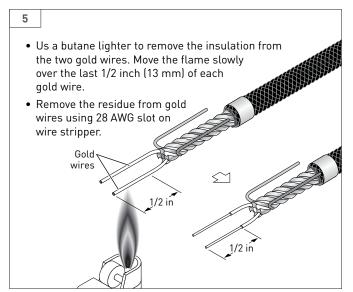
Non-emergency health and safety information: (800) 545-6258.

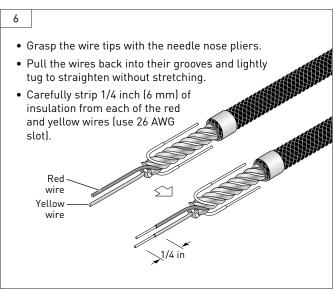






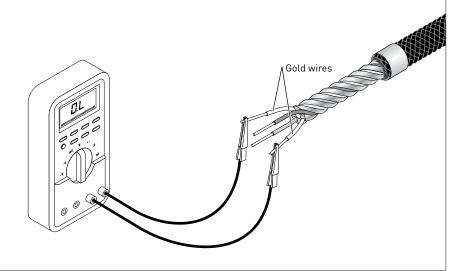






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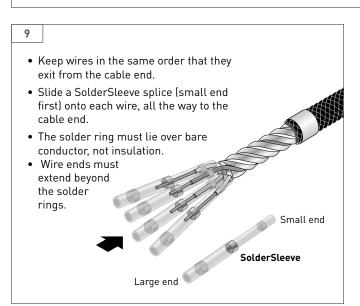
- Use the ohmmeter to measure the resistance between the gold wires. The resistance must be greater than 20 megohm (meter may read: ∞, 0.L., etc.).
- If the measurement is less than 20 megohm, check that the cable is not wet or contaminated, and make sure the wires are not touching each other. Repeat measurement.

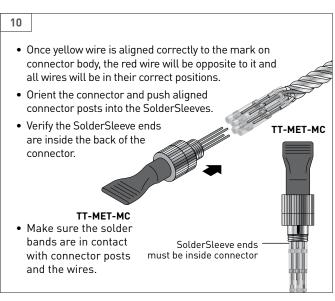


Locate the Yellow Wire Connector Post

- Note the large tab cutout around rim of connector. Position the large tab at 12 o'clock position, see below.
- Use permanent ink marker to mark flat portion of connector body behind the large tab.
- For the pin connector (Part A) only, slip the spinner ring, large hole first, onto the connector.
- Attach TT-MET-MC and TT-FET-MC (Parts F and G) to socket and pin connector (Parts B and A) to use as a holder to avoid burning fingers while applying heat.

Pin Connector Socket Connector (Part A) (Part B) Yellow (large tab) Yellow (large tab) Spinner TT-FET-MC TT-MET-MC



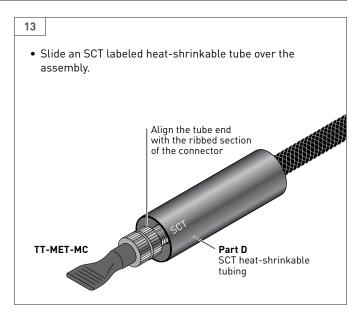


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- Heat the SolderSleeves until they have shrunk fully and the solder rings have melted and flowed. Keep the heat source moving to avoid charring the connector.
- Carefully remove assembly from heat. Hold connector and cable steady and allow to cool. Moving solder joint when hot can weaken the connection.

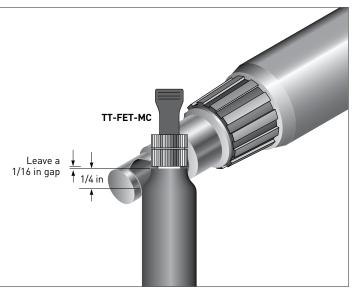


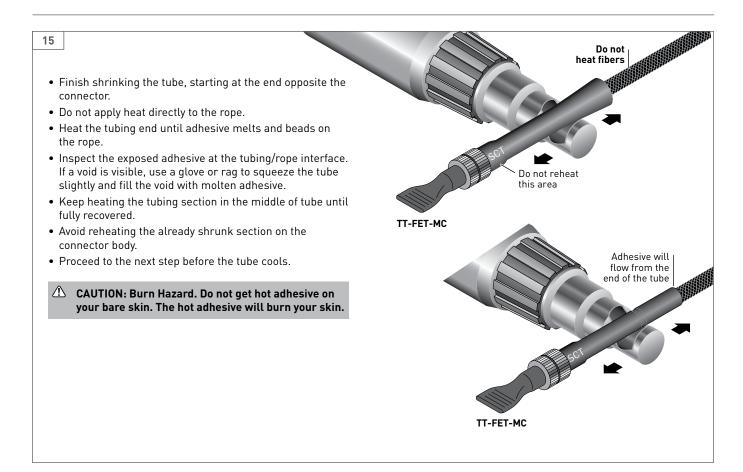
12 • Push the taped rope end toward the connector to remove any slack in the rope. Socket connector Pin connector TT-MET-MC TT-FET-MC

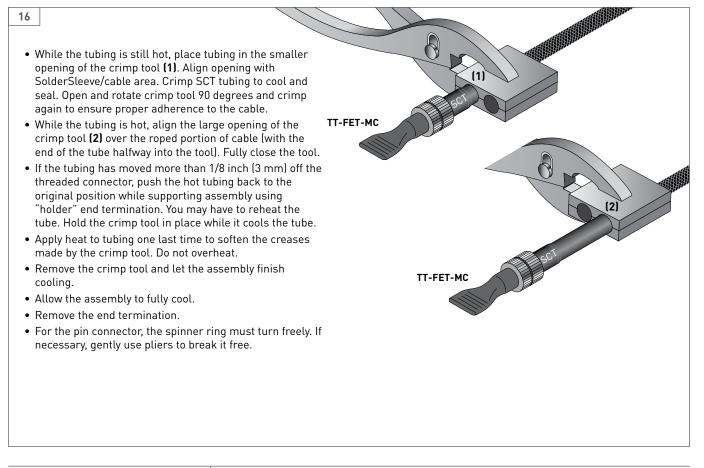


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- Heat shrink 1/4 inch (6 mm) of the tube onto the connector, moving the heat source around the tube to heat evenly.
- Leave a small gap (1/16 inch) (1.5 mm) between the tube and the ribbed section of the connector.
- Do not overheat. The tube may slip off of the connector if it is overheated.
- Allow to cool before proceeding.



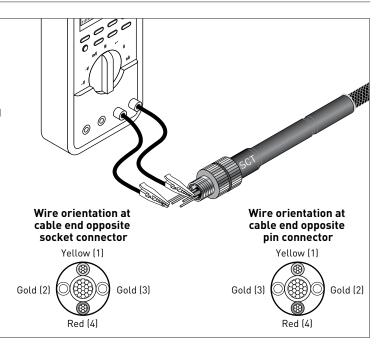




17 **Test the Connector Assembly**

Electrical Test

- Attach the mating test-tool-half to the connector to be tested.
- If both cable ends have connectors, attach a mating end termination at the opposite end. If there is no connector on the opposite cable end, prepare it according to steps 1 through 6 and twist together wires 1 & 2. Also join wires 3 & 4.
- Use an ohmmeter to measure the resistance between the test tool posts.
- The resistance between the 2 longest posts or the 2 shortest posts should be $\approx 2.5x$ cable length (ft) (i.e. A 100 ft. (30 m) cable should measure $\approx 250 \Omega$ between the two longest posts and \approx 250 Ω between the two shortest posts.)
- The resistance between the 2 intermediate length posts should be greater than 20 megohms.
- If the assembly fails any of the resistance tests;
 - 1) Check the twisted wires at the opposite able end.
 - 2) If necessary, cut off and discard the connector and install a new one.

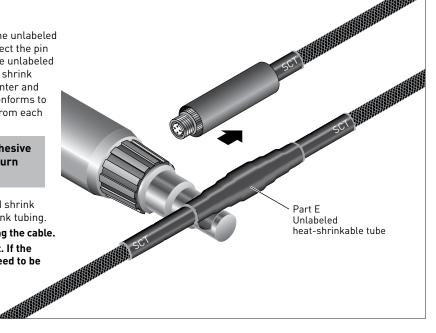


Apply Environmental Seal

• Before mating the connector assemblies, slide the unlabeled shrink tube (Part E) onto one of the cables. Connect the pin and socket connectors together firmly. Center the unlabeled shrink tube over the pin/socket connection. Heat shrink the tube over the connection, beginning in the center and shrinking towards the ends until the tube fully conforms to the shape of the connection and adhesive flows from each end of the tube.



- Avoid overheating Part E. The thin wall unlabeled shrink tubing requires less heat than the SCT cable shrink tubing.
- · Let the entire connector area cool before handling the cable. Note: Do not leave connector open to environment. If the connector becomes wet or contaminated, it will need to be replaced.





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