

TraceTek TT-JC-CK-PC-M/F TT-JC-CK-PC-M/F-100

FIFI D INSTALLED CONNECTORS FOR TRACETEK - JC BULK JUMPER CABLE INSTALLATION INSTRUCTIONS



KIT CONTENTS TT-1000/JC-CK-PC-M/F

(PN P000000080) (10 M and 10 F connectors)

Item	Qty	Description
A	10	TT-CK-PC-F socket connector
В	10	TT-CK-PC-M pin connector
С	10	Silicone washer
D	20	Heat-shrinkable tubing, labeled SCT
E	85	SolderSleeve® splices (5 extras)

TT-1000/JC-CK-PC-M/F-100 (PN 269496-000) (100 M and 100 F connectors)

Item	Qty	Description
Α	100	TT-CK-PC-F socket connector
В	100	TT-CK-PC-M pin connector
С	100	Silicone washer
D	200	Heat-shrinkable tubing, labeled SCT
E	850	SolderSleeve splices (50 extra)

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 quidelines when working in hazardous areas.

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

DESCRIPTION

These instructions describe field connecting of TT-JC Bulk Jumper Cable.

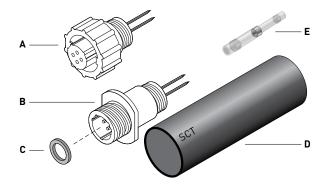
For technical support call Pentair Thermal Management at (800) 545-6258.

TOOLS REQUIRED

- Razor blade or utility knife
- TT-STRIPPER (PN 358979-000) Greenlee stripper (1917) or equivalent for 18 AWG wire.
- TT-ULTRA-TORCH (PN 390067-000) flameless heating tool (Ultratorch 200) or suitable heat gun with concentrator tip.
- High impedance ohmmeter (Fluke 87 or equivalent; meter must be capable of measuring to at least 20 megohm)
- Needle nose pliers
- Small wire cutters
- TT-MET-PC (PN 169905-000)

NOTES

- Do not use an open flame heating tool.
- Jumper cable ends are different, and require a specific connector type at each end. Check the cable end before installation to ensure proper wire orientation as shown in step 5.
- In TraceTek leak detection systems, the socket connector end of jumper cable is oriented away from the alarm module- while the pin connector end is oriented towards the alarm module. If a jumper cable is to be connected directly to the alarm module, a pin connector is not used.

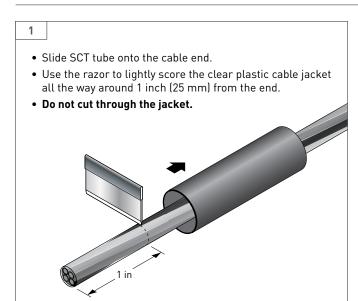


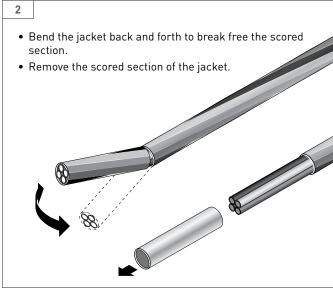
CAUTION:

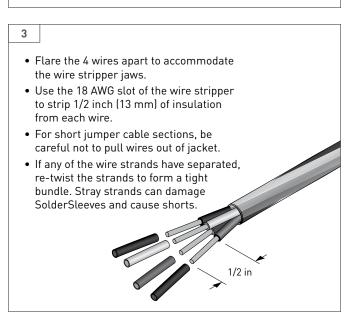
HEALTH HAZARD. Overheating heat-shrinkable tubing or SolderSleeves will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult MSDS RAY3122 and RAY5103 for further information.

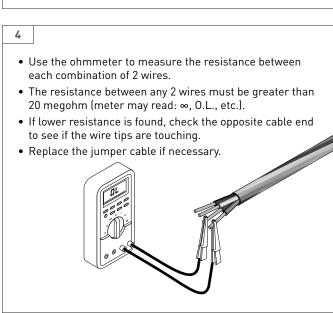
CHEMTREC 24-hour emergency telephone: (800) 424-9300

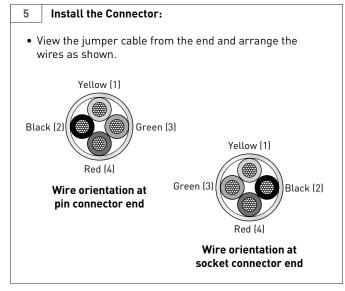
Non-emergency health and safety information: (800) 545-6258.

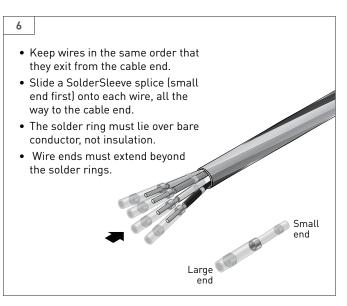






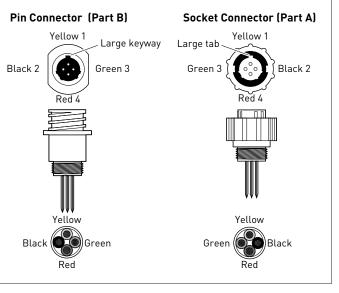


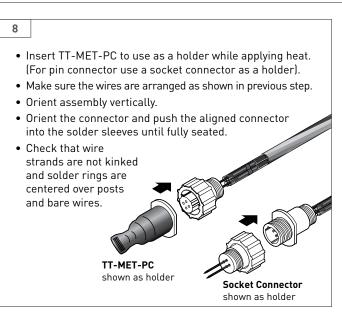


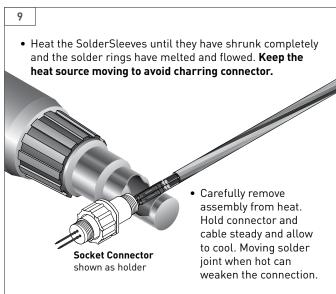


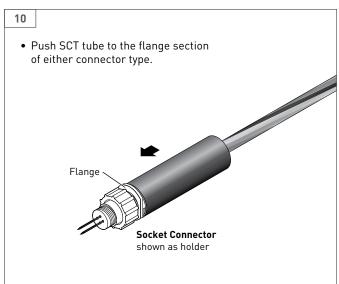
Align the Connector

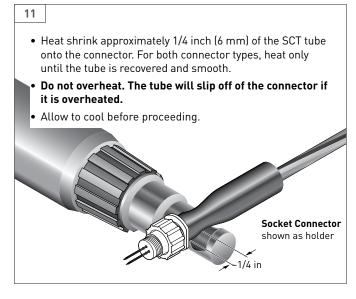
• Examine the mating end of the connectors. The large plastic tab (socket connector) or the large key way (pin connector) corresponds to the yellow wire. Each pin/ socket position is numbered on the front and back of the connector body. Once the yellow wire is aligned check that the other wires are also correctly aligned.





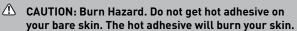




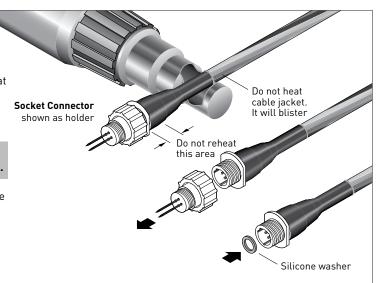


• Heat shrink the rest of the tube, avoiding the already shrunk section. • While the tube is still hot, inspect the exposed adhesive at

the tubing/cable interface. • If a void is visible, use a glove or rag to squeeze the tube slightly and fill the void with molten adhesive.



- If the tubing has moved more than 1/8 inch (3 mm) off the threaded connector, push the hot tubing back to original position. Push using the "holder" connector. Do not push using the cable, as this could weaken the solder joint connections.
- After SCT tubing cools, remove the "holder" connector and for the pin connector, insert the silicone washer.



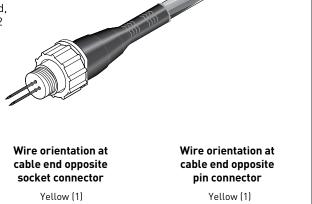
Test the Connector Assembly

Electrical Test

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- Attach the mating connector with posts 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 thru 3. Then twist together wires 1 & 2 and wires 3 & 4.
- Use an ohmmeter to measure the resistance between the connector
- The resistance between post 1 & 2, or 3 & 4 should be about 15Ω per 1000 feet (303 m) of cable length (i.e. a 100 ft. (30 m)cable should measure approximately 1.5Ω between the posts).
- The resistance between post 2 and 3 should be greater than 20 megohms.
- If the assembly fails any of the resistance tests;
 - 1) Check that the wires are not touching at the opposite cable end, if not connectorized.
 - 2) If necessary, cut off and discard the connector and install a new one.

Note: Do not leave connector open to environment. If the connector becomes wet or contaminated, it will need to be replaced.



Black (2) Green (3)

Red (4)

Green (3) Red (4)

Black (2)

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