



Technical Note: 10000041

## Maxtek Sensor Head/Feedthrough Termination of Electrical Connections

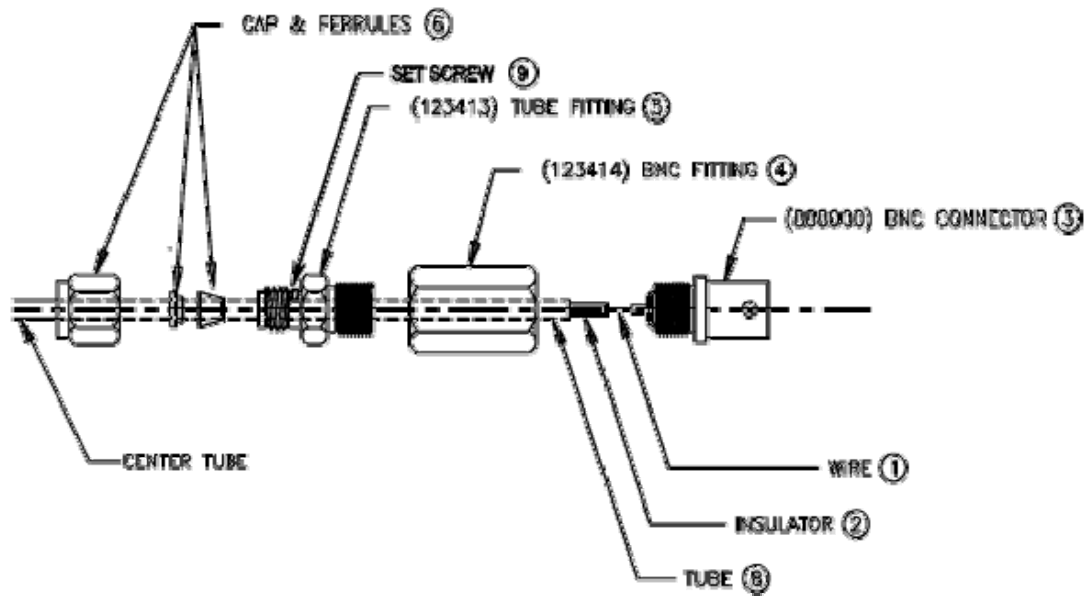
The procedure below must be observed carefully to insure proper termination of the electrical feedthroughs.

1. Trim insulator (2) to 0.25" beyond tube (7).
2. Cut wire (1) to 0.25" beyond insulator (2).
3. Solder center pin of BNC connector (3) to wire (1).

**NOTE:** In performing the following steps, it is important to keep all of the parts (3), (4), (5) and (6) from rotating around the tube (8). Failing to do so will result in wire breakage.

4. Screw BNC fitting (4) into BNC connector (3) and tighten. It is important to hold the BNC connector (3) while turning the BNC fitting (4) into the BNC connector and tighten. Otherwise, the wire will break off from the BNC center pin. **WARNING:** Do not damage BNC connector. Use pliers to hold the flange on the BNC connector only. Or use a male BNC to hold on to it.
5. Screw tube-fitting (5) into BNC fitting (4) and tighten. Hold the BNC fitting (4) while tightening the tube-fitting (5).
6. Connect the cap and ferrules (6) to tube fitting (5) and screw the cap in a few turns, but do not tighten.
7. Use an Ohmmeter to check for continuity from the center conductor of the BNC to the contact pin inside the sensor head.
8. Also, check for resistance leakage across the center conductor of the BNC and its housing. Ohmmeter should read greater than 1 Megaohm.
9. If all of the above steps are okay, tighten the cap and ferrules (6)  $\frac{3}{4}$ " turn from finger-tight.

Using an Allen wrench, tighten the set screw (9) with finger-tight force. This completes the termination procedure. **WARNING:** Do not over-tighten this set screw. It will damage the tube and may create an electrical short.



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Related Products:	<a href="#">ASF-140/ASF-141</a> , <a href="#">BDS-250/BDS-251</a> , <a href="#">BSH-150/BSH-151</a> , <a href="#">DSH5P1</a> , <a href="#">SF-120</a> , <a href="#">SH-101/SH-102</a>
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