

Installation Hardware Instructions

F-4000 Series Transducer Signal Cables



The ONICON F-4000 Series Clamp-on Ultrasonic Flow Meter transducer signal cable assembly kit includes the items shown in the photo below. Please verify that you have all of the pieces.



Heat Shrink Cable Markers

Strain Relief Fittings

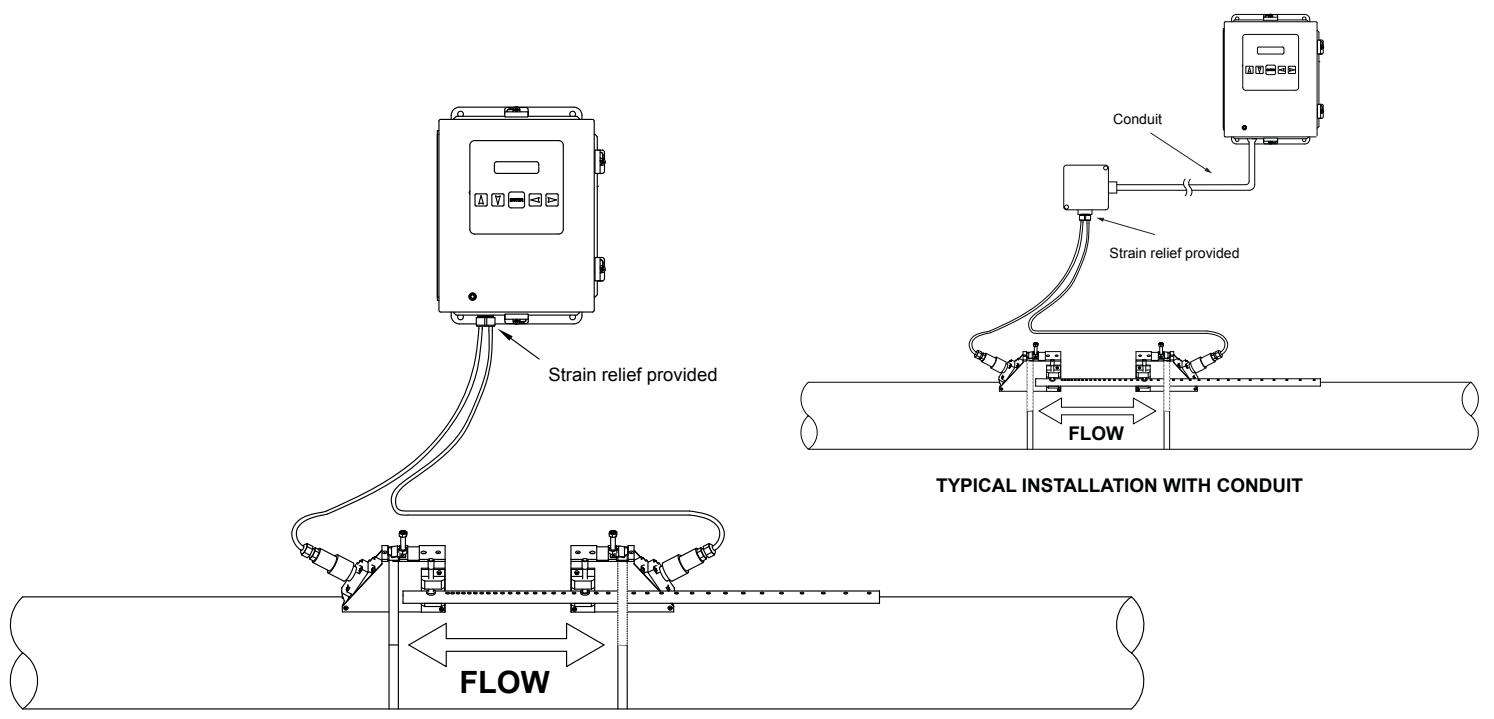
NPT Adapters

F-Connectors

Heat Shrink Tubing

ONICON F-4000 transducer cables are special purpose coaxial cables. Care must be taken when installing the cables to ensure that electrical noise will not affect the performance of the meter. The cables must NOT be bundled or run in conduit with any other signal or power cables. The maximum allowable cable length is 300 ft.

To install the cables, first locate and install the wall-mount electronics enclosure and the transducers.

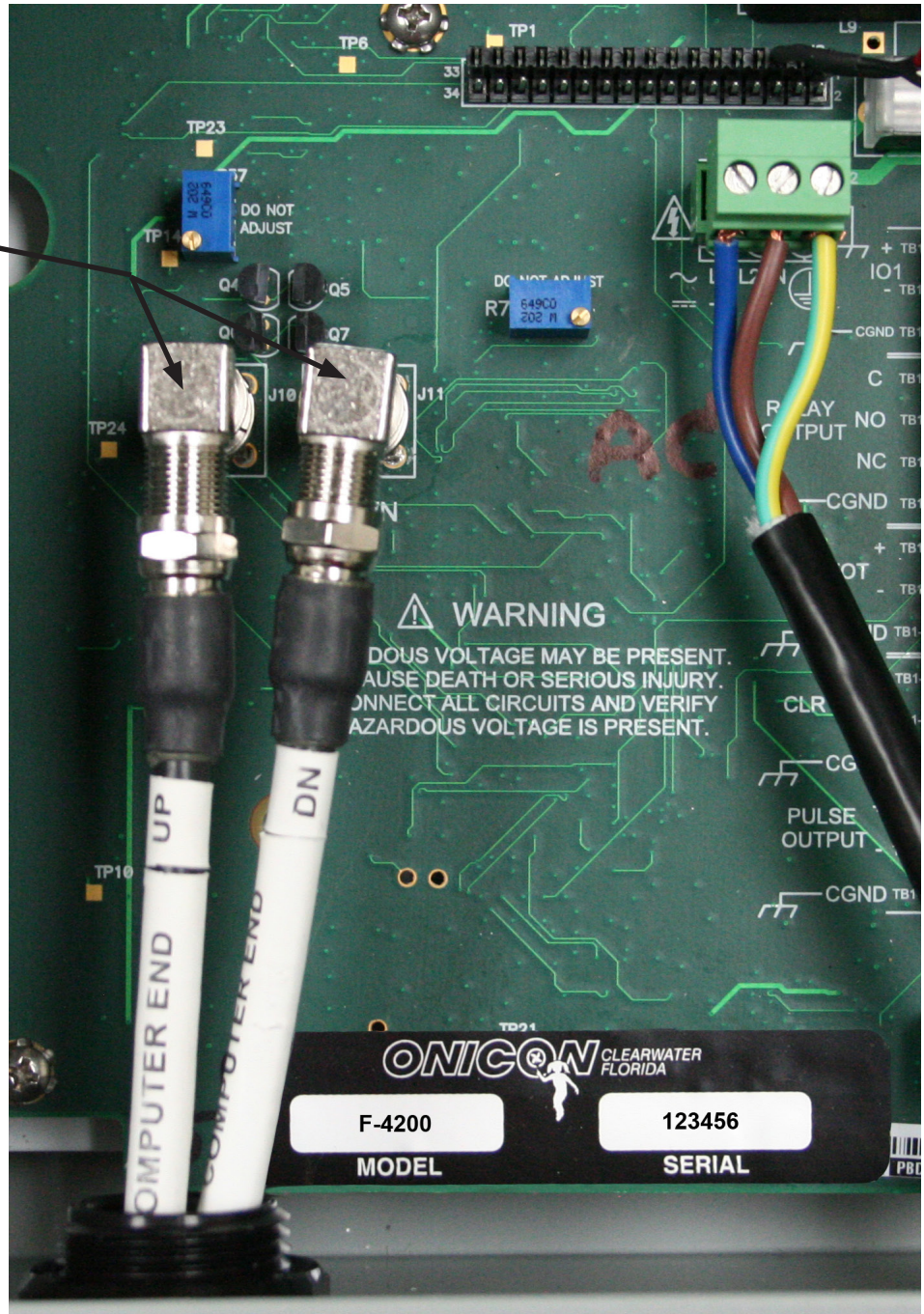


TYPICAL INSTALLATION WITHOUT CONDUIT

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The transducer cables are provided with connectors already installed at one end of the cable. Install this end of each cable at the electronics enclosure as shown below using the right angle adapters provided. When installing the cable, avoid routing it close to strong sources of electrical noise, and do not install cables in raceways with power or other signal cables.

Right Angle Adapters



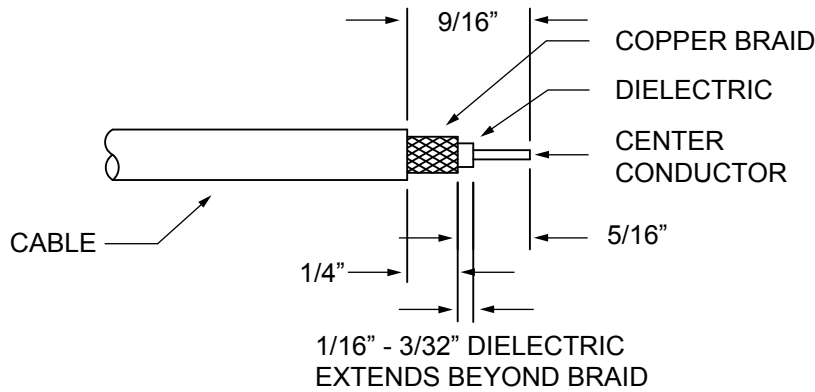
WARNING

For proper operation, cables must not be bundled or run in conduit with any other signal or power cables.

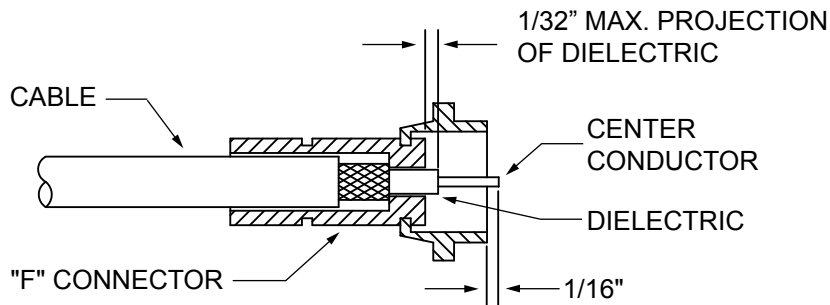
Once the correct cable length has been determined, install the F-connectors provided to terminate the end of each cable as shown on the next page.

Prior to installing the F-connectors, slide the upstream and downstream cable markers over the ends of the cables followed by the strain relief and NPT adapters.

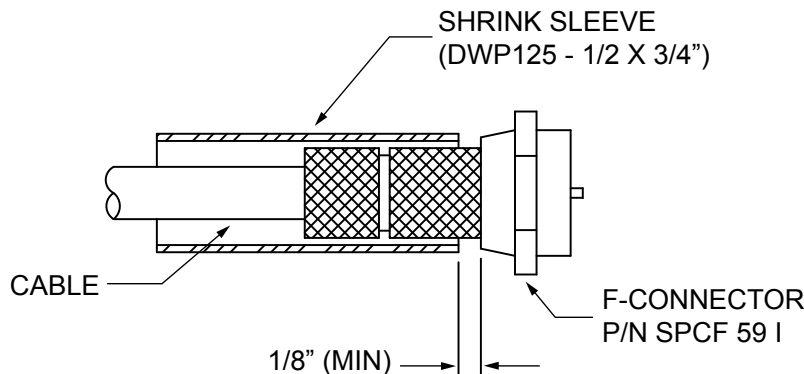
Strip and trim to length as shown. Do not push copper braid back over jacket.

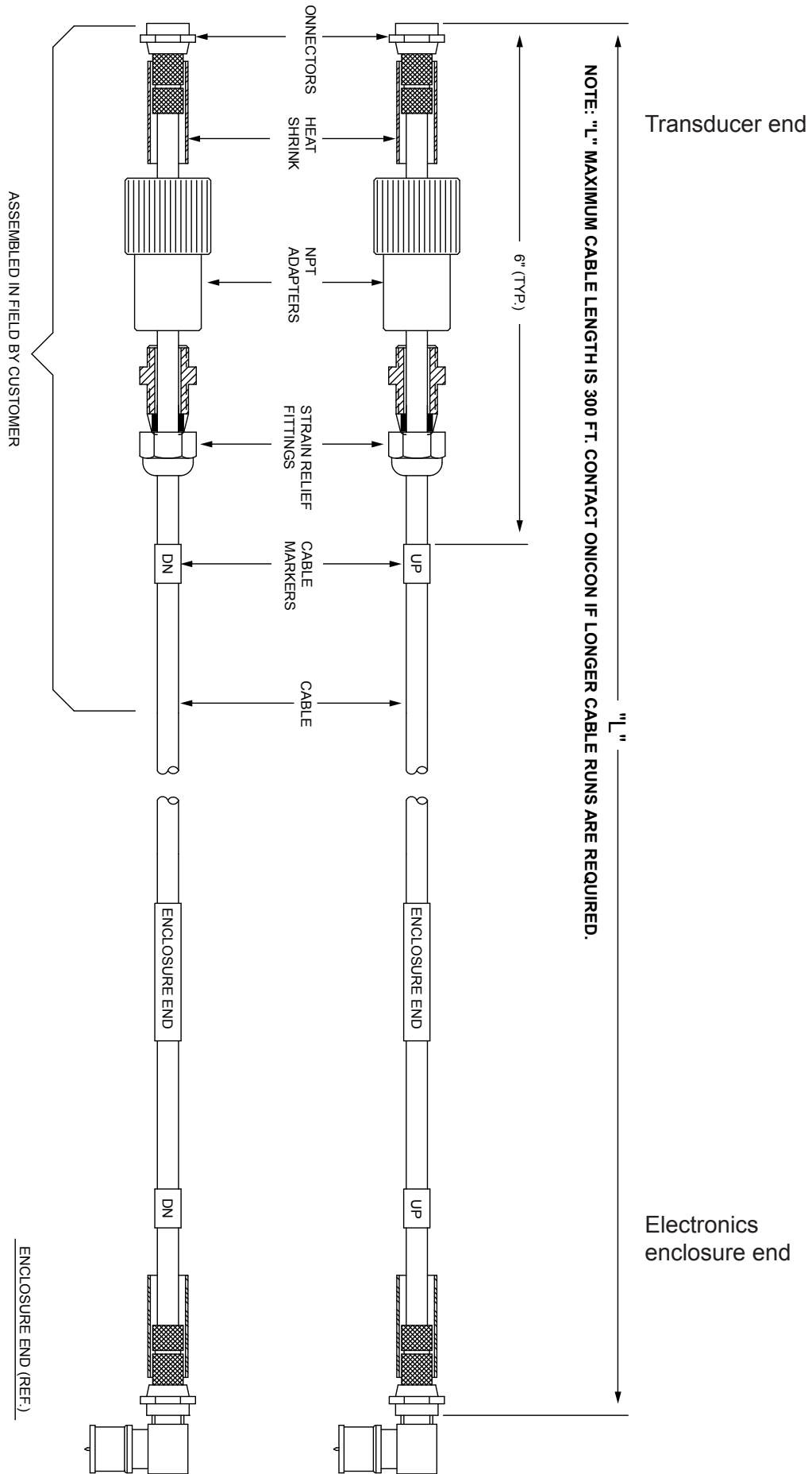


Thread cable into connector until the dielectric slightly protrudes from the end of the barrel. The center conductor should protrude approximately 1/16" beyond the connector body as shown.



Place shrink tubing over the connector and shrink in place with hot air gun.





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