

WIDELine™ Elbows for ACX650-10E-W Rigid Transmission Line



1

After installing the rigid line on the transmitter side of elbow, thread the stub adapter into the threaded hole that the bellows extension screw was removed from in the inner connector. Tighten the stub adapter to a torque of 50 lb-in.

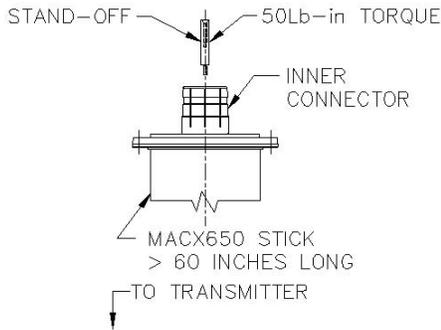


FIGURE 1

2

Take the elbow inner conductor and slide it onto the inner connector. **Note: The point of the "V" that is stamped on the flat on one end of the inner conductor should be pointing towards the antenna.**

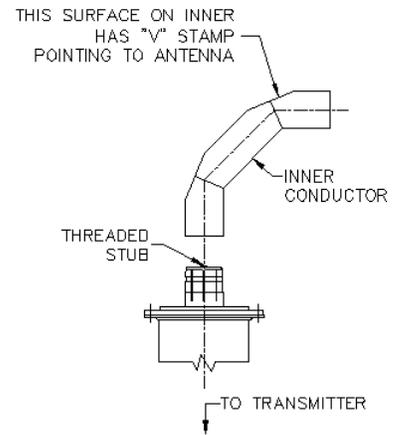


FIGURE 2

3

Push the inner conductor until it seats against the inner connector shoulder and rotate it until it is aligned with the direction of the next section in the system. Insert the 4-inch long #10 standoff with its lock washer into the counter sunk hole in the inner conductor. Tighten the screw to a torque of 50 lb-in.

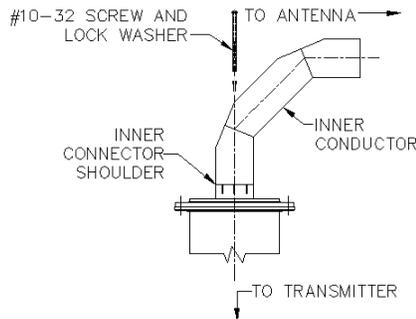


FIGURE 3

O-Ring Installation

Seat the O-ring gasket in the flange gasket groove on the flange closest to the transmitter, the gusset on the outer conductor is marked with a "V" pointing towards the antenna. Be sure both the gasket and the groove are clean. Any foreign material may prevent the assembly from being pressure-tight. A thin coating of silicone grease on the gasket will help hold the gasket in place during assembly.

Note: The electrical contact surface must be free of silicone grease.

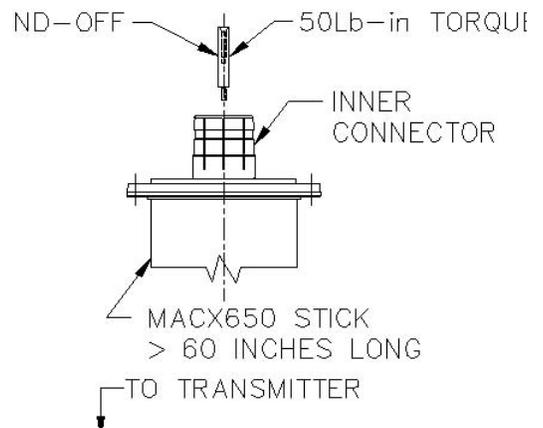
4

Note: The elbow outer conductor must be installed with the point of the "V" stamp on the gussets, pointing towards the antenna. Labels also tell which flange to connect first and which to break first, when disassembling.

Slide the elbow outer conductor over the inner conductor. Push the assembly together, making certain the gasket remains in place and the inner connector insulator seats properly in the flanges. Rotate the swivel flange so that the alignment pins are opposite the alignment holes and then push the flanges together.

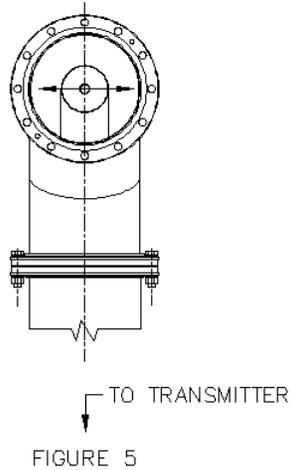
Install the flange hardware and leave the bolts finger tight. Alternately snug the hardware at 180 degree intervals, while maintaining a uniform gap between the flanges. Perform the final torque sequence in a star pattern to 21 lb-ft (28 N-m). The gap between the flanges must be uniform.

Caution: Do not over tighten.



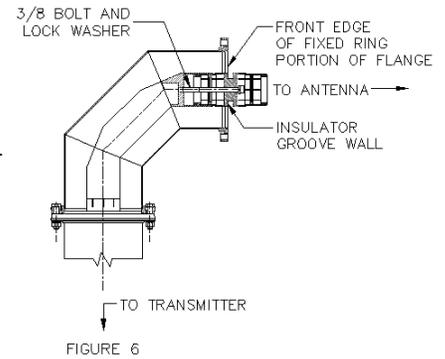
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Twist the inner conductor until it is lined up with the center line of the elbow.



6

Take the insulator off of the ACX650-20W. Insert the inner connector in the elbow inner conductor while holding the inner conductor. Push the inner conductor in until the insulator groove wall lines up with the front edge of the fixed ring portion of the flange. Insert the 4.5-in. long bolt with its lock washer thru the inner connector, until it engages the threads in the inner conductor.



7

Put the insulator back on the inner connector. Squeeze the insulator and guide it into the flange, while tightening the bolt. Tighten the bolt to a torque of 21 +/-2 lb-ft.

When attaching the second flange to the next rigid line component, follow the same procedures used above. See O-Ring Installation and Elbow Installation instructions.

IMPORTANT: THIS ELBOW MUST BE DISASSEMBLED IN THE REVERSE ORDER ONLY.

