

INSTALLATION INSTRUCTIONS

Omnidirectional Antennas - BA1010 and BA6110 Series

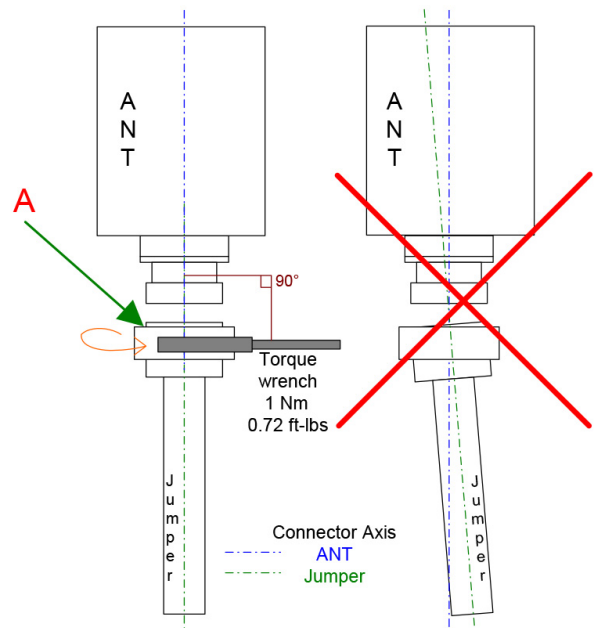
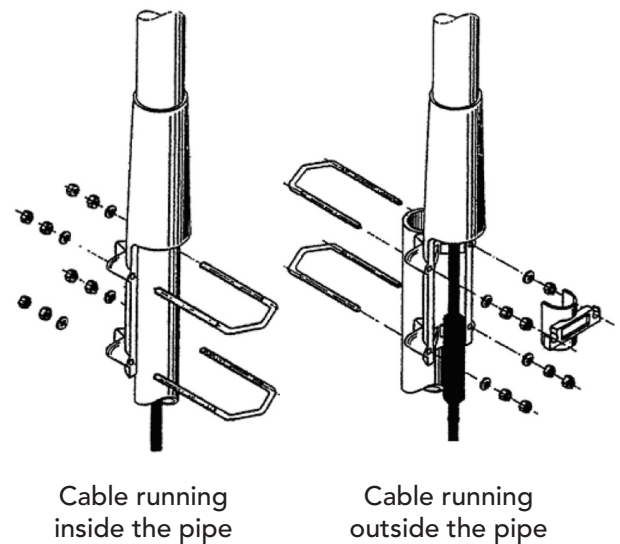
INSTALLATION OF THE E380-03F OMNIDIRECTIONAL ANTENNA MOUNTING HARDWARE

The BA1010 and BA6110 antennas can be mounted on the top of mast Ø38-54 mm (1.5-2.125 inches) with the feeder cable inside or on a mast 19-54mm (0.75-2.125 inches) with the cable on the outside.

The U-shaped stainless steel mounting brackets are included in the E380-03F mounting kit.

Tower Level

1. Disconnect RF signals.
2. Place the two U-shaped mounting brackets around the pole and slide the E380-03F base - the antenna top **must** be upwards - onto the mounting brackets. The antenna can be mounted with cable running inside or outside the support pipe.
3. Tighten one nut on each threaded rod with 8 Nm (5.9 ft-lbs) torque.
4. Connect the jumper cable to the antenna connector.
5. When attaching the jumper cable N connector swivel to the antenna N female connector it is **mandatory** that the jumper cable connector meets the female connector of the antenna straight in line (A).
6. Press the inner part of the jumper cable connector onto the antenna connector and maintain this pressure while turning the swivel. Hereby the swivel will fit the female connector thread correctly and the assembly will run smoothly. Tighten the swivel by hand.
7. Use a torque wrench to tighten the connector assembly with 1 Nm (0.72 ft-lbs) torque. The torque wrench must be perpendicular to the antenna connector base and jumper cable connector swivel when tightening. **Note: No angular torque from the jumper cable is allowed at any time.**
8. Seal the connector assembly with Liners Rubber Splicing Tape and Vinyl Plastic Electric Tape. Around the connector assembly the tapes must connect with the antenna connector base for correct weather protection. See section "Insulation of Connectors" on **page 2** for details. Do not cover drain hole.
9. Ensure vertical position of the antenna.
10. Place a washer (cable running outside the antenna) and nut set on each of the top mounting bracket rods. Tighten the two nuts with 8 Nm (5.9 ft-lbs) torque.
11. Place protection cap, washer and nut on the bottom mounting bracket rods. Tighten the two nuts with 5 Nm (3.7 ft-lbs) torque.
12. Reconnect RF signals and DC power.



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INSULATION OF CONNECTOR

In order to ensure the best quality of transmission and ingress-resistance Amphenol recommends all connector connections to be insulated. This insulation is carried out after the antenna-to-jumper-cable connectors have been tightened.

1. The inner layer of the Vinyl Plastic Electric Tape (VPET) protects the antenna. The connector assembly **must** be fully covered and the VPET layer **must** meet the base around the connector.
2. Apply the Liners Rubber Splicing Tape (LRST) in two layers over the connection overlapping itself to half-width. The first layer of LRST shall not exceed the VPET, the second layer **must exceed** both the first layer of LRST and the first layer of VPET.
3. Apply VPET over the LRST, wrapped downwards by overlapping itself to half-width until the LRST is covered completely.
4. Only mount the antenna in upside-down position (connector = down).

VPET: Vinyl Plastic Electric Tape

LRST: Liners Rubber Splicing Tape