

# Weatherproofing Instructions

Model Number 1024-00



## MODEL 1024-00

### Weatherproofing Instructions

#### Body Mount Antenna

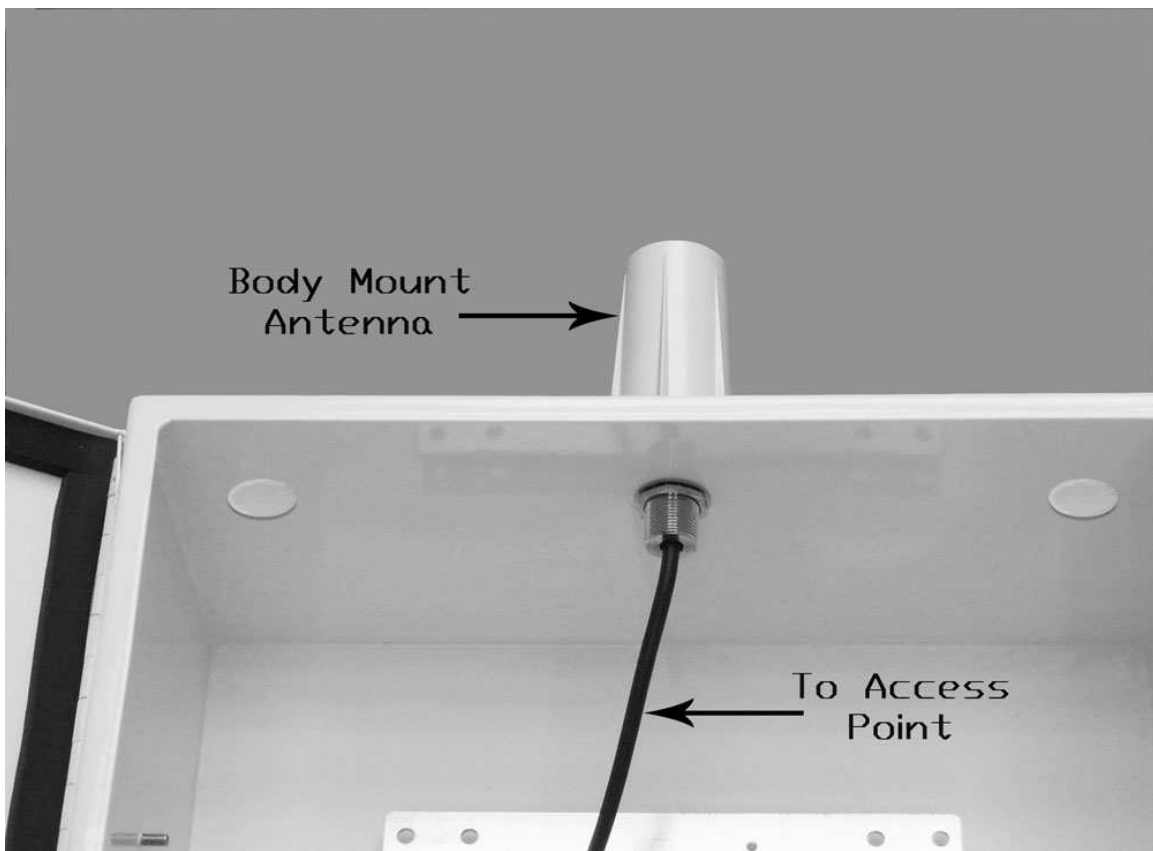


Figure 1

Oberon's 34-BMANT24 and BMANT5 (Figure 1) outdoor body mount antennas can be mounted directly to the Model 1024 enclosure. There are (3) 5/8" knockouts on the top and bottom of the enclosure for up to six body mount antennas. These antennas have an O-ring in the base, so when the antenna is properly tightened, they create a water tight seal on the enclosure.

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## Vent and Bulkhead RJ-45 connectors

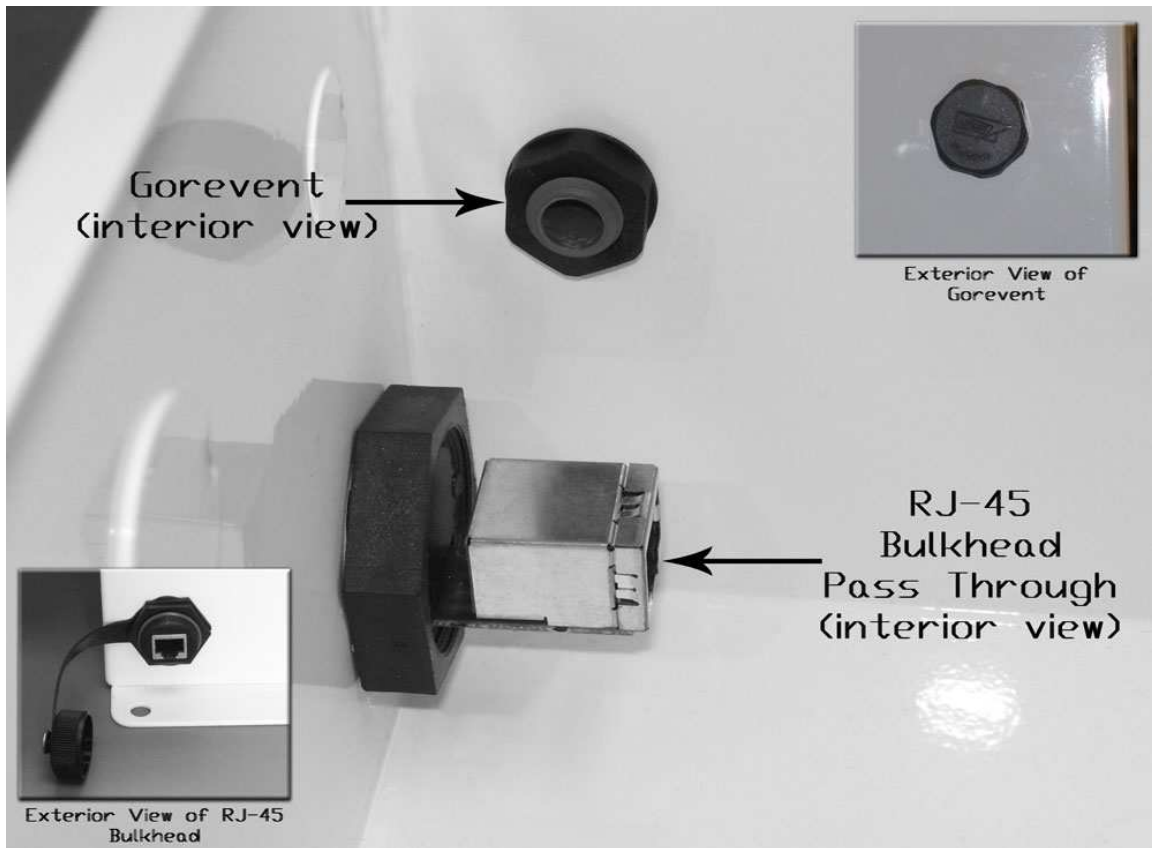


Figure 2

The model 1024-00 has (2) 1" knockouts in the bottom, which can accommodate Oberon's 35-RJ45-KIT bulkhead mounted modular connector, or 1" conduit clamps (Figure 2). The ½" knockout in the side of the 1024-00 is for the Gore vent. The Gore vent (Oberon Part No. 35-GOREVENT-KIT) is a Gore-tex material, which allows the enclosure to "breathe" (equalize interior and exterior air pressure over temperature) without drawing in water vapor (Figure 2). This can help to reduce condensation in tightly weather-proofed enclosures. Notice that the Gore Vent tightening nut is on the interior of the enclosure.

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## Lightning Arrestor/Surge Protector

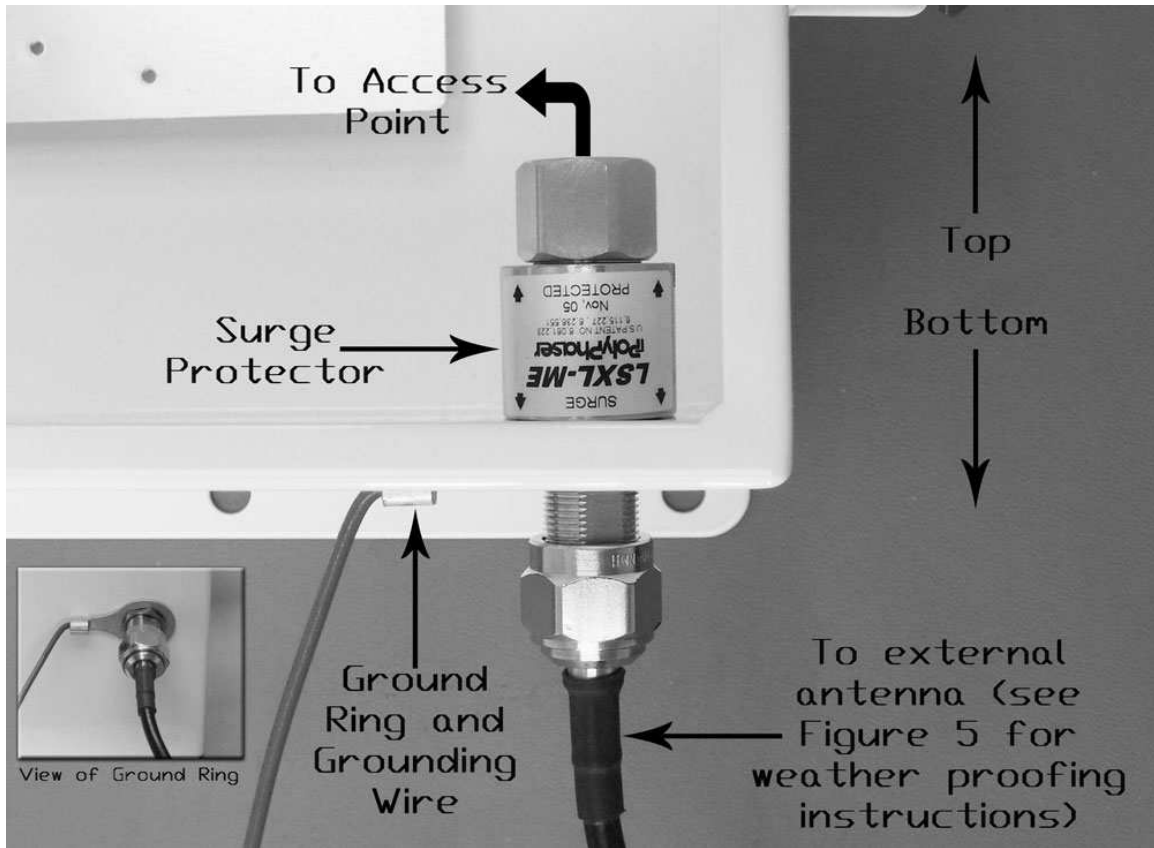


Figure 3

The lightning arrestor/surge protector can be installed in the 5/8" knockouts as shown (Figure 3). The "surge" side of the protector is towards the antenna. The "protected" side is towards the access point. The grounding ring is attached to the exterior of the enclosure through the surge protector's extended, threaded jack.

The grounding wire is crimped into the grounding ring. The grounding wire must be connected to an appropriate building grounding electrode (not the AC line power system neutral or ground), to properly protect the equipment. Installation of the building ground electrode should be performed by a qualified electrician.

**IMPORTANT NOTE: The building ground electrode wire is for proper operation of the surge suppressor/lightning arrestor only. It is not intended to provide AC line power ground. The model 1024-00 is designed for operation with low voltage equipment only. The model 1024-00 is not designed for AC line (220V) powered equipment.**

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## Cabling to Antenna

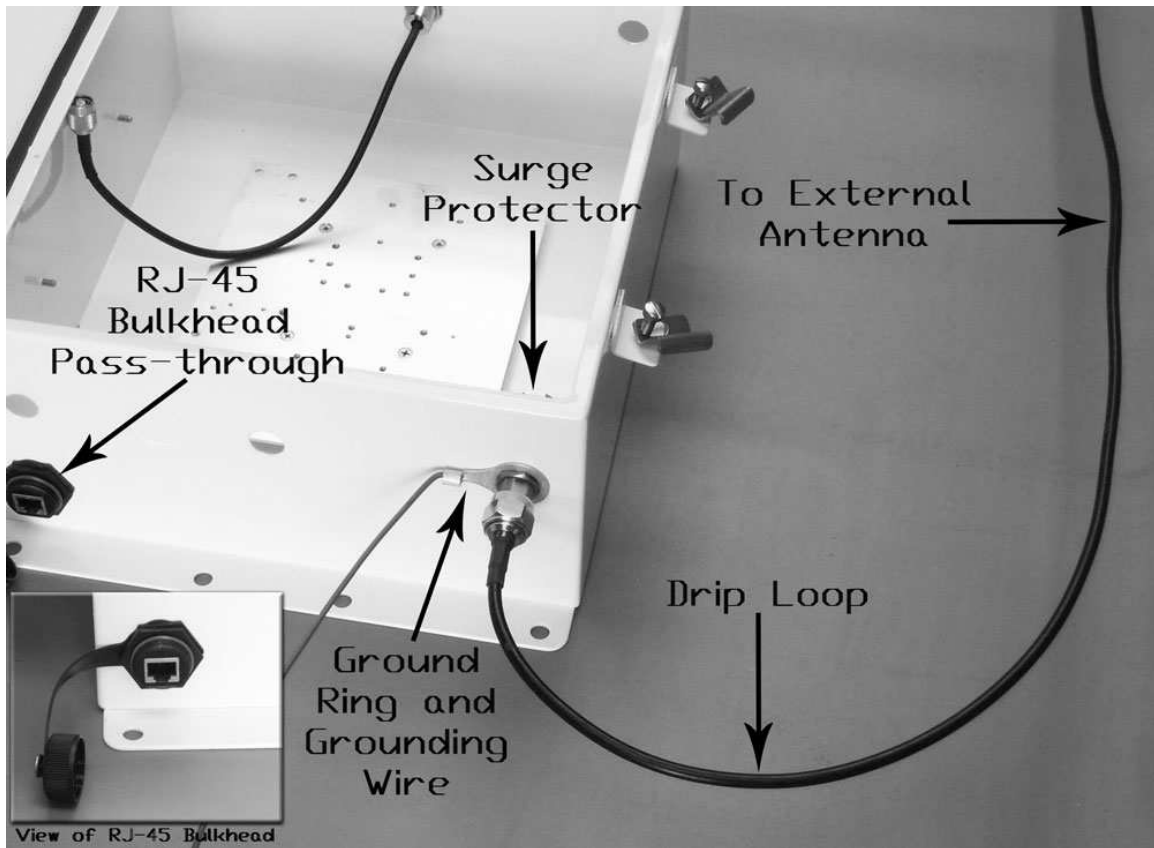


Figure 4

The cable from the lightning arrestor/surge protector to the antenna should include a drip loop to allow water to drip off the cable. The cable connector attached to the lightning arrestor, and all exterior cable connections, should be properly weather protected as shown in the diagram (Figure 4). Most RF connectors have an interior gasket to prevent water from accumulating inside the connector. The connector must be properly tightened to ensure that this gasket properly seals the connector.

**IMPORTANT NOTICE:** Oberon's model 1024-00 is not ventilated. The enclosure is designed to provide the capability for NEMA 4 protection against dust and falling/spraying water only. Power dissipated by electronic equipment within the enclosure will cause the internal temperature to rise. Equipment should be de-rated by the anticipated interior temperature rise. Equipment drawing greater than 20 Watts of line power should not be operated in this enclosure. Operation of commercial electronic equipment outdoors and within non-ventilated enclosures may expose the equipment to temperature and humidity ranges beyond the specified operational or storage range of the equipment. Equipment warranties may be voided by operation in outdoor environments.

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## Weatherproofing External Connectors

### MATERIAL LIST

- 1" x 16" butyle mastic
- 3/4" x 20" electrical tape
- DE-OX oxide inhibitor grease (optional)

### REQUIRED TOOLS

- Knife

Step 1. Apply DE-OX with q-tip to both connector and conductor (optional DE-OX helps to prevent corrosion).

Step 2. Assemble connectors and wipe excess DE-OX away from insulation.

Step 3. Apply one layer of 3/4" x 20" electrical tape overlapping each row approximately 1/4". Tape layers should extend approximately 1" past each end of connection and each layer should be tightly wrapped to eliminate any void or air pockets.

Step 4. Apply one layer of butyl mastic overlapping each row approximately 1/2". Mastic layer should overlap first tape layer at a minimum of 1/2" on each side of connection.

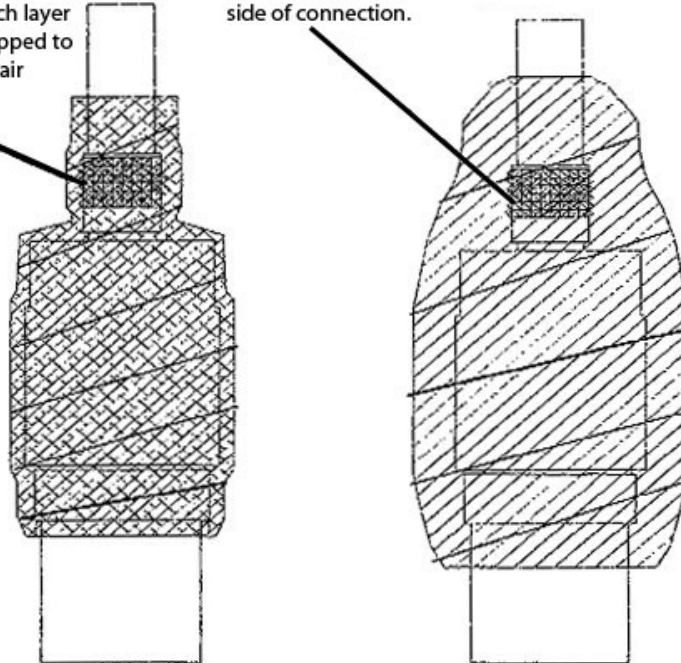


Figure 5

### NOTICE

Installation of this product should only be performed by trained, qualified and experienced personnel. Installation instructions for this product should be read thoroughly before installation is performed. The manufacturer and supplier of this product disclaim any liability or responsibility for the results of improper or unsafe installation practice.