

P040-0021 Revision C, January 2024

GENERAL INFORMATION

The 3X-RVV-65A-R9 antenna (Figure 1) is a compact, tri-sector antenna solution. Since mounting locations and surfaces will vary, CommScope does not provide the mounting bolts or associated hardware required to properly install this antenna. It is the responsibility of qualified personnel to determine the best method for securely anchoring the base plate of the antenna to the mounting surface.

After removing the antenna from its shipping container carefully inspect it to ensure there is no shipping damage. If the antenna is to be hoisted into position, ensure the lifting eye bolt is correctly installed. Ensure the antenna is securely held during hoisting to avoid rotation on the lifting eye bolt.

The eye fastener is designed to only lift the antenna itself, do not lift antenna along with other devices or accessories.

See optional action for eye bolt related in step 4.

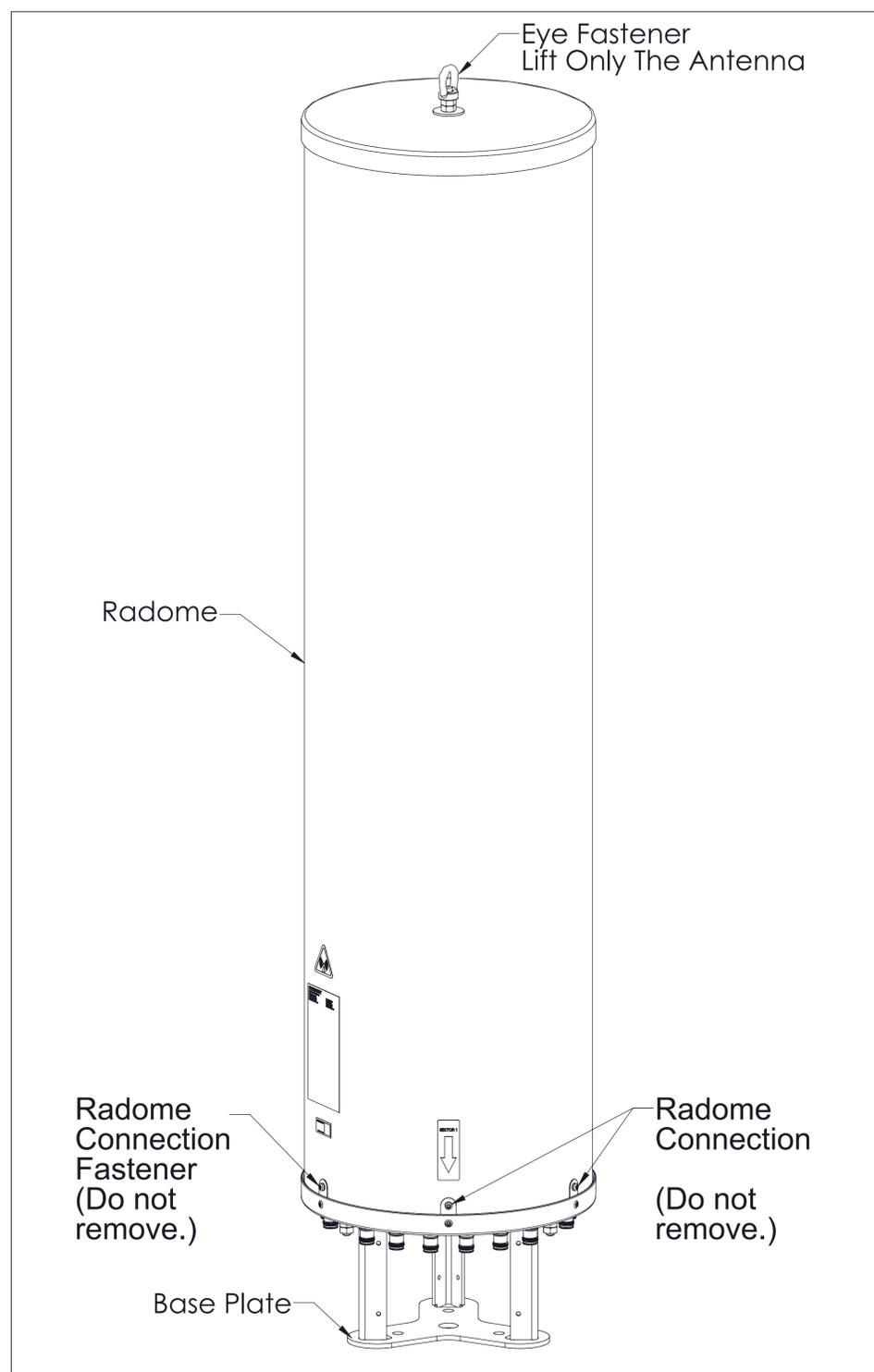


Figure 1. 3X-RVV-65A-R9

INSTALLATION INSTRUCTIONS

1. Refer to Figures 2, 3 and 4 for mounting and boresite alignment. It is recommended that the mounting holes be marked and made ready in the mounting surface prior to installing the antenna.

The boresite of each antenna is shown by the boresite indicator (featured in Figure 4). The direction of each antenna must be considered prior to mounting to ensure desired performance.

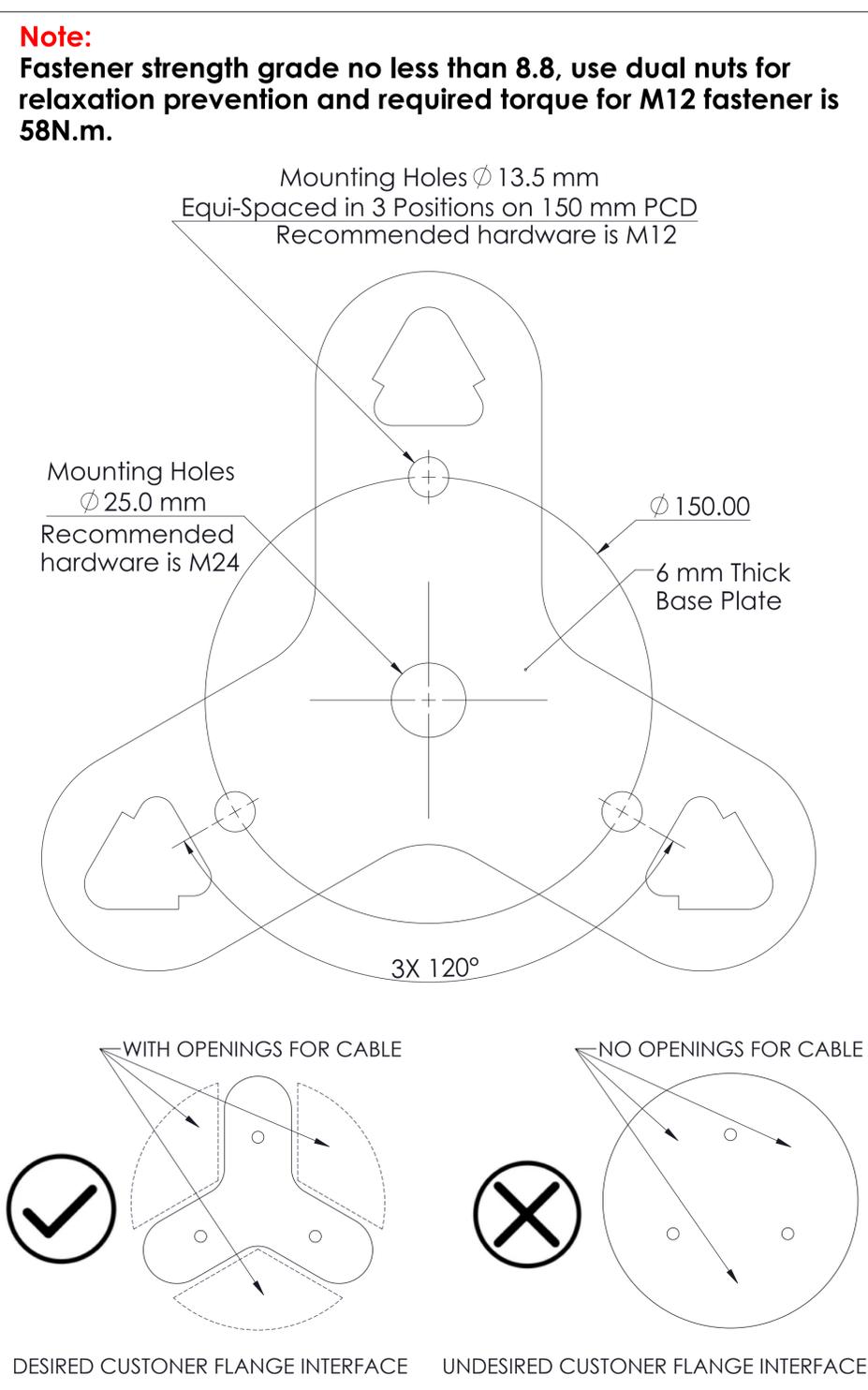


Figure 2. Mounting Holes on Base Plate Viewed From Bottom Side of Antenna

4. Optional action

3X-RVV-65A-R9 contains DC grounding on the feed networks. The eye bolt is intended for lifting the antenna and is sealed against water ingress but is not part of a lightning protection circuit. For normal operating conditions it is recommended that the eye bolt be left in place after installation. For some special cases the customer may wish to remove the eye bolt. For these situations the eye bolt may be replaced with a plastic cover using the following instructions.

Take off the eye bolt. (Figure 5)

Install nut, top cap on screw with torque 2~3Nm. (Figure 6)

Check the nut, top cap is well installed. (Figure 7)

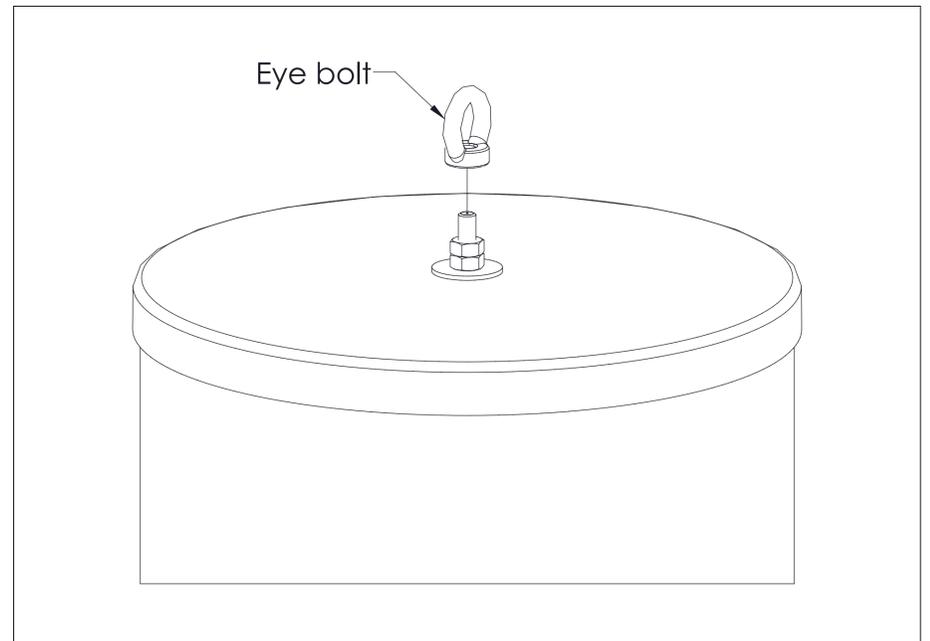


Figure 5

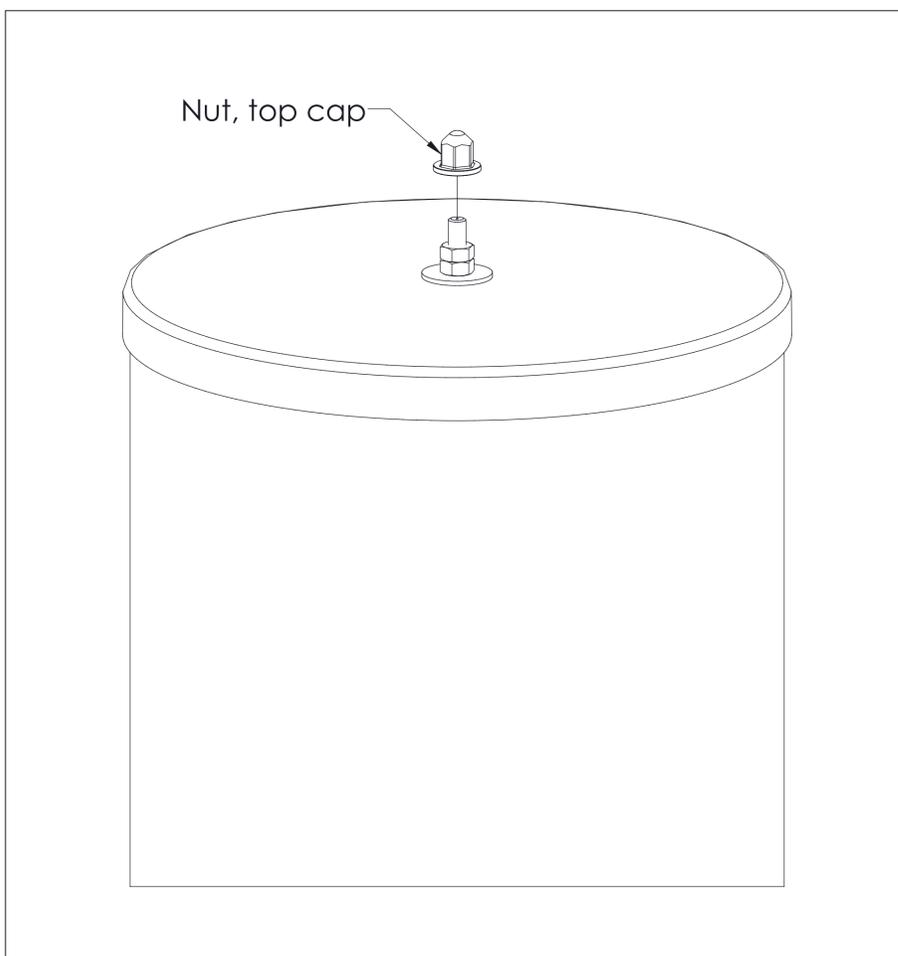


Figure 6

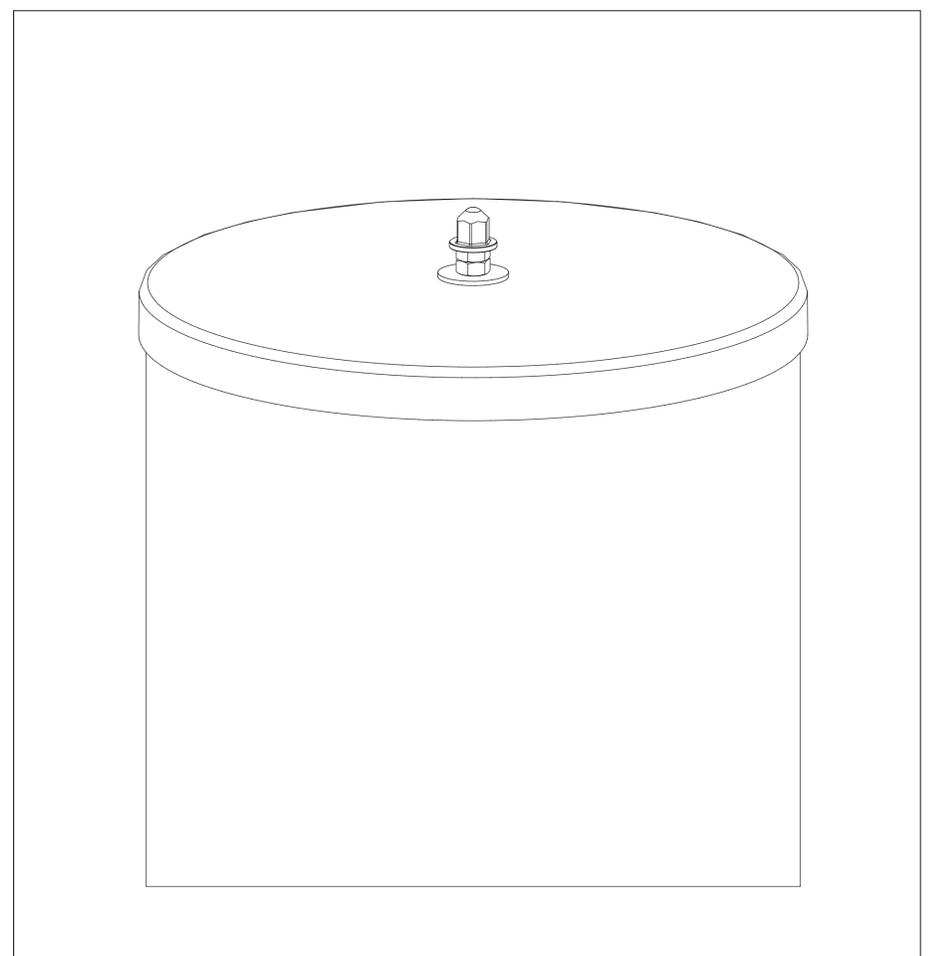


Figure 7

SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. CommScope installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page.



Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.



Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.