Recommended Installation Instructions

Interference Mitigation Filters, UltraAmp™ Tower Mounted Amplifiers or ShareLite™ Multiplexers

PACKAGE CONTENTS

Please find the following products inside the box:

- Filter(s)
- (1) or (2) Pole Mounting Clamps
- Installation Instructions (*This Document*)

RECOMMENDED TOOLS

The following tools are needed for proper installation:

- 6mm or 8mm, Socket or Wrench for clamp tightening
- T-20 Bit for M4 Ground Screw
- 10mm Socket or Wrench for M6 ground nuts
- 5/8in Socket or Wrench for 3/8in Ground Nuts
- Torque Wrench

POLE MOUNT DETAILS

1. Disconnect RF signals and DC power.
2. Attach the ground cable onto the assembled Grounding Hardware and tighten. ***(See Figure 1) (See Table 1)***

Table 1: Component Torque

Torque Table (*See Figures 1,2,3,4*)	
Grounding Nut / Screw	**Torque Value**
M6 NUT #1	6 Nm [4.4 ft-lb]
M6 NUT #2	4 Nm [3 ft-lb]
3/8in NUT #1	26 Nm [19 ft-lb]
3/8in NUT #2	22 Nm [16 ft-lb]
M4 SCREW	2 Nm [1.5 ft-lb]
Jumper Nut	**Torque Value**
7-16	25 Nm [18.4 ft-lb]
4.3-10	11 Nm [8 ft-lb]
4.1-9.5	11 Nm [8 ft-lb]
N-Type	3 Nm [2.2 ft-lb]
NEX10	1.5Nm [1.1 ft-lb]
2.2-5	3 Nm [2.2 ft-lb]
Pole Clamp Nut	**Torque Value**
8mm Nut	10Nm [7.5 ft-lb]
6mm Nut	3Nm [2.2 ft-lb]

3. Slide the (2) Pole Mounting Clamps through the slots of the Filter Brackets. ***(See Figure 2)***
4. Fix the clamp/(s) and bracket to the Pole and Torque. ***(See Figure 2) (See Table 1)***
5. Adjust the length of the ground cable and fix it onto the tower ground connection. ***(See Figure 1)***
6. Connect the filter to the system by means of jumpers.
7. When attaching the jumper cable connector coupling nut to the filter female connector it is mandatory that the jumper cable meet the female connector of the filter straight in line.
8. Press the inner part of the jumper cable connector into the filter connector and maintain this pressure when turning the jumper coupling nut. Once aligned, the jumper coupling nut will fit the thread of the female connector correctly and it will turn smoothly. Tighten the jumper coupling nut by hand.
9. Use a torque wrench to tighten the connector assembly. ***(See Table 1)***
10. The torque wrench must be perpendicular to the connector flange and jumper cable connector coupling nut when tightening. ***(See Table 1)***

Note: No angular torque from the jumper cable is allowed at any time.

11. For additional protection against harsh environmental conditions, insulate all connector connections.
12. Reconnect RF signals and DC power.

WALL MOUNT INSTRUCTIONS

1. Disconnect RF signals and DC power.
2. Mount the filter onto the wall using the holes provided in the bracket/(s). Hardware is NOT included for wall mounting. Use mounting hardware appropriate to the material being mounted to and appropriate to the weight of the filter. ***(See Figure 3)***
3. Filters must be mounted on a flat surface. Any uneven mounting causing twist can degrade performance. Torque all mount hardware uniformly to prevent twist.
4. Follow the installation procedure for Pole Mounting Steps (2-10) described above.

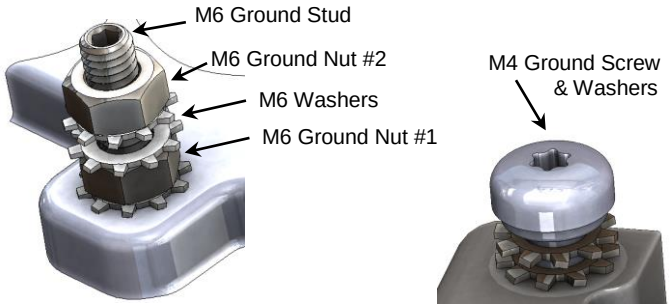

Figure 1: Grounding Hardware M6 & M4

Filter views shown below are to outline standard components. They are for reference only, actual filter will vary.

Figure 2: Filter Pole Mount

Figure 3: Filter Wall Mount

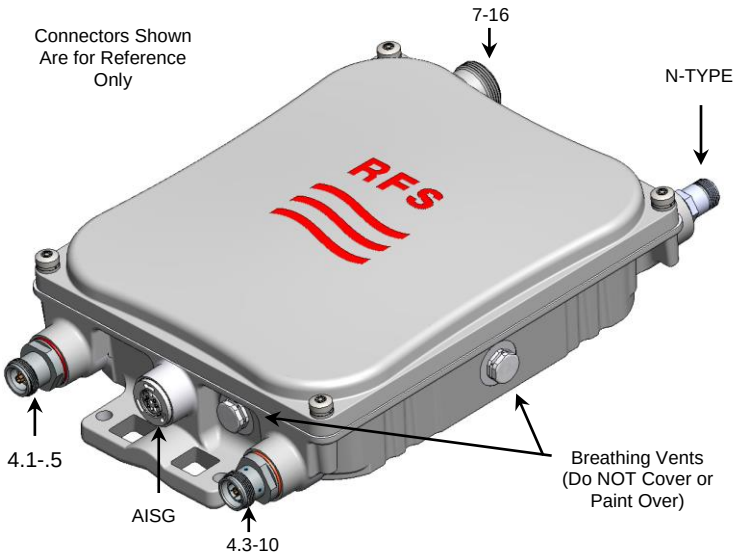

Figure 4: Filter Standard Features

Scan QR Code on product label to view Filter Datasheet for specifications, documents and dimensions or go to:
www.rfsworld.com