

PIVOT 5G™ Installation Guide



Parts List					Dual Service Deployment					Not Included			Recommended
												Cable Box Package (1) Cable Box (3) Grommet plates (3) Velcro straps (4) Wire wraps (6) Pole mount Velcro (9) Wire wrap Velcro (2) 5" hex pole mount screws (12) 3/8" hex in-box mounting screws 1-inch UV Resistant High Temp Split Loom cable sheathing	

Part 1 – Mounting

Guidance from carrier will indicate the degree of separation of the units around the pole.

SERVICE Unit, aim at service area

DONOR Unit, aim at gNb per carrier guidance

2nd Service Unit only applicable to some deployments

Step 1 Drill 5-inch pilot holes and screw bracket to the pole

Recommended bit size: 3/32-inches for softwood 3/16-inches for hardwood.
See bracket instructions for bracket assembly.

Step 2 Install bands over top and bottom of mounting bracket

A. The required band length is 4.5x the pole diameter for each single wrap. **DO NOT DOUBLE WRAP.**

B. With the ears pointing up and on the right side, slide the band through the buckle and bend at least 2-inches beneath the buckle. **DO NOT POSITION BUCKLE OVER MOUNTING BRACKET.**

D. Slide the 6-inches of band into the open slot of tool nose and gripper block. Move into slot as far as possible. Turn the handle until the band stops moving through the buckle – this means maximum tension has been applied. **DO NOT OVERTIGHTEN.**

E. Roll tool nose over the buckle, relieving a slight amount of tension by backing off tension handle (1/2 to 1 turn) **DURING** this fold-over.

F. Slide the cutting tool back and make sure you have 6-inches of extra band and then pull cutting handle to cut the band.

G. Hold clamp tail down between buckle ears while hammering ears down to hold band stub in place.

Step 3 Tighten bracket nuts on mounting arm and mount each unit

Tighten hex nuts on bracket arm to 18 ft-lbs (216 in-lbs)

A radial downtilt sticker and arrow indicator are available to attach to the mounting bracket

Tighten bracket-to-unit hex nuts to 4-5 ft-lbs (48-60 in-lbs)

Finish **FULLY** mounting the units **BEFORE** attaching cables.

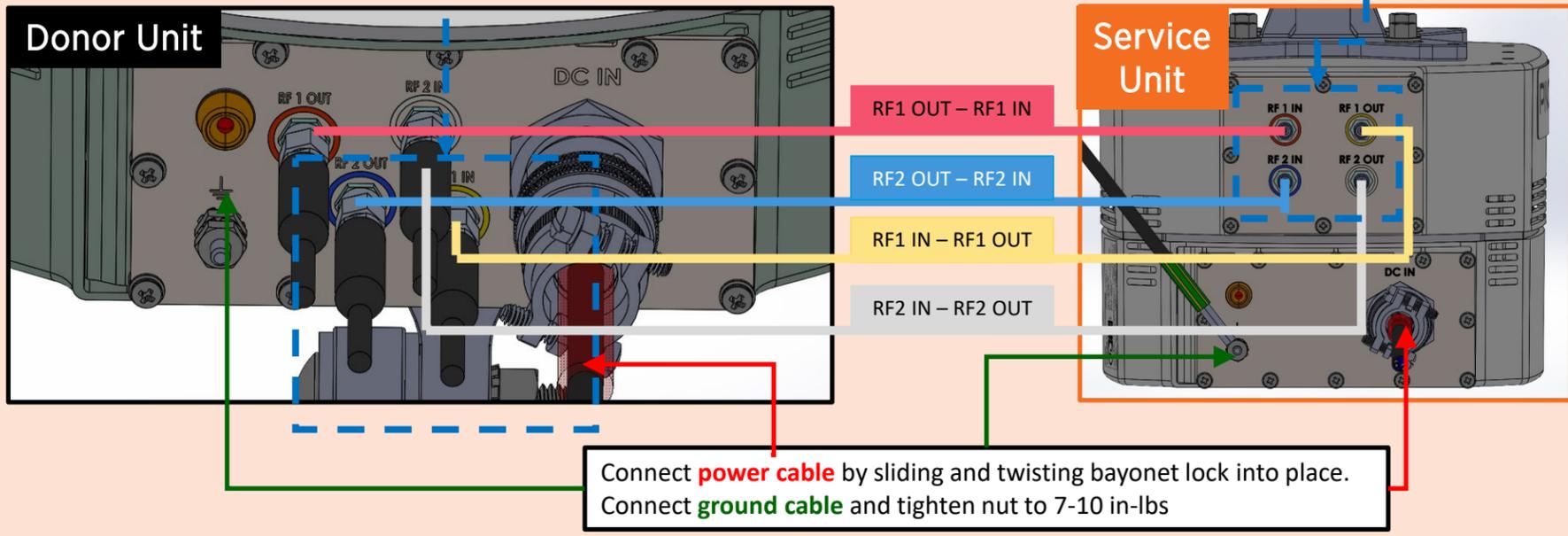
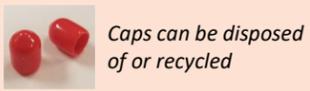
Cable instructions on back ↘

If adding a second Service Unit to an existing configuration, **DO NOT** mount unit over the top of existing bands.

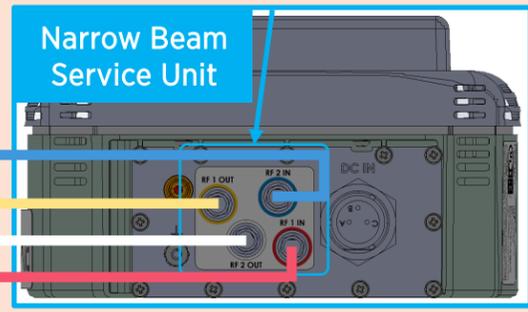
Part 2 – Connecting & Weatherproofing Cables

Step 4

Remove dust caps before connecting cables → Use Torque wrench to tighten RF cables to 8 in-lbs



Narrow Beam Service Unit (Service HBF): Connection configuration differs for the Narrow Beam SU.



Important: Record the Pivot 5G's serial number found on the bottom of both the Donor and Service Units. This will be needed for commissioning.

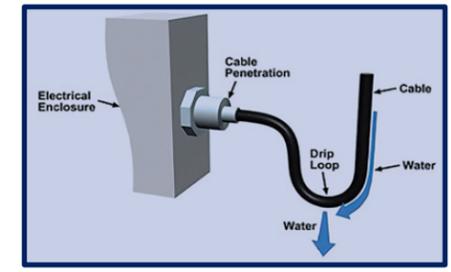
RF Cables

- **DO NOT** use plastic tie wraps.
- **DO NOT** remove dust caps on cables or connectors until connecting.
- **DO NOT** get water or dirt in cable connectors.
- **DO NOT** leave connections exposed (without dust caps). Install cables **IMMEDIATELY** after mounting and removing caps.
- **DO NOT** power on until all connections have been made and tightened to specifications.
- **DO NOT** crimp, crush, or tug on cables.
- Cables shall **NOT** be installed under tension or remain under tension once installed.
- **DO NOT** loop power or ground cables in smaller than 6-inch diameter loops or RF cables in smaller than 3-inch diameter loops.

Ground Cable

- **DO NOT** route cable over unit. Route cable AWAY from unit.
- **DO NOT** bend ground cable ring more than 30°.

All Cables: Cables MUST run uphill to BOTH units to create a drip loop between units

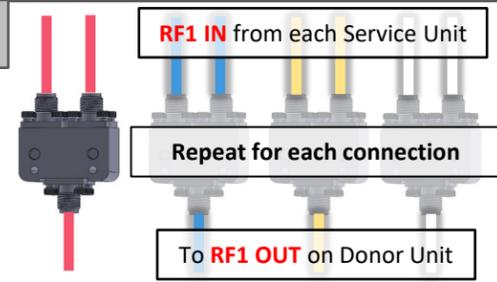


This line must fit inside RF cable loops (1.5-inch bend radius)

This line must fit inside power and ground cable loops (3-inch bend radius)

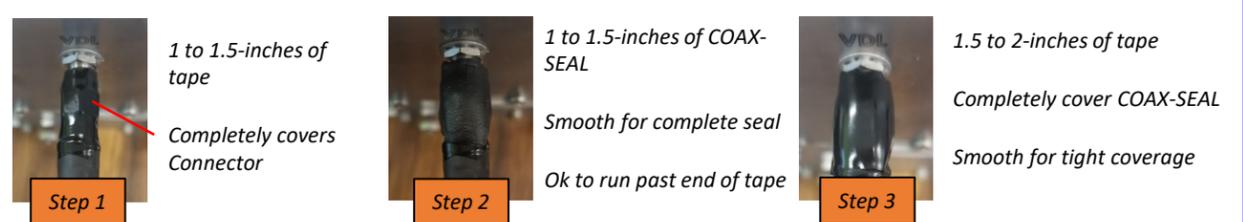
Step 4a Dual-Service Deployments

For dual-Service Unit deployments, connect the RF cables from each Service connection to the provided splitter and connect the single resulting cable to the Donor Unit.



IMPORTANT: Dual-Service deployments require the **Dual-Service RF Cable Kit** consisting of 12 seven-foot cables.

Step 5 Coax Weatherproofing

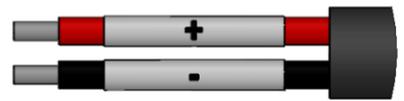


Make sure fittings are clean, dry, and connected to the proper torque.

1. Use 1 to 1.5-inches of ½-inch wide electrical tape to cover the connector. Smooth tape for a tight seal over each side of the connector.
2. Use 1 to 1.5-inches of COAX-SEAL to create an airtight seal over the tape and connector. It is okay to run over the tape. Smooth the COAX-SEAL to ensure complete, airtight coverage.
3. Use 1.5 to 2-inches of tape to completely cover the COAX-SEAL. Smooth the coverage area to ensure an airtight seal.

Step 6 Power Wiring

1. Install the Power System to be used.
2. Disable the output power from the Power System **before** wiring
3. Wire the power cabling:
 - a. **Red wire (+)** – Connect to the positive 48V terminal of the power source.
 - b. **Black wire (-)** – Connect to the negative 48V terminal of the power source.
4. Enable output power from the Power System.



Pivot 5G is designed to be powered from either a "Neg 48V" power source (with the + terminal connected to ground) or from an "isolated 48V" power source (with both terminals isolated from ground).

Pivot 5G **SHOULD NOT** be powered from a "Pos 48V" power source (with the – terminal connected to ground).

LED Behavior

- Before Commissioning**
- Solid Yellow – Initial power-up sequence
 - Blinking Yellow – Device is ready to commission
- After Commissioning**
- Blinking Red and Green – Identifying device
 - Solid Green or Yellow (temporary, prior to no light) – Strong or medium signal from gNB
 - Solid Red – Weak signal from gNB
 - No Light – Ready for use
 - Blinking Red – Error



Commissioning Instructions

Support:

Phone: 1-855-956-2016
 Email: support@pivotalcommware.com
 Web: https://pivotalcommware.freshdesk.com

Verizon Wireless authorizes the use of this device on Verizon Wireless network only.

WARNING. This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENSE or express consent of an FCC Licensee to operate this device. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.