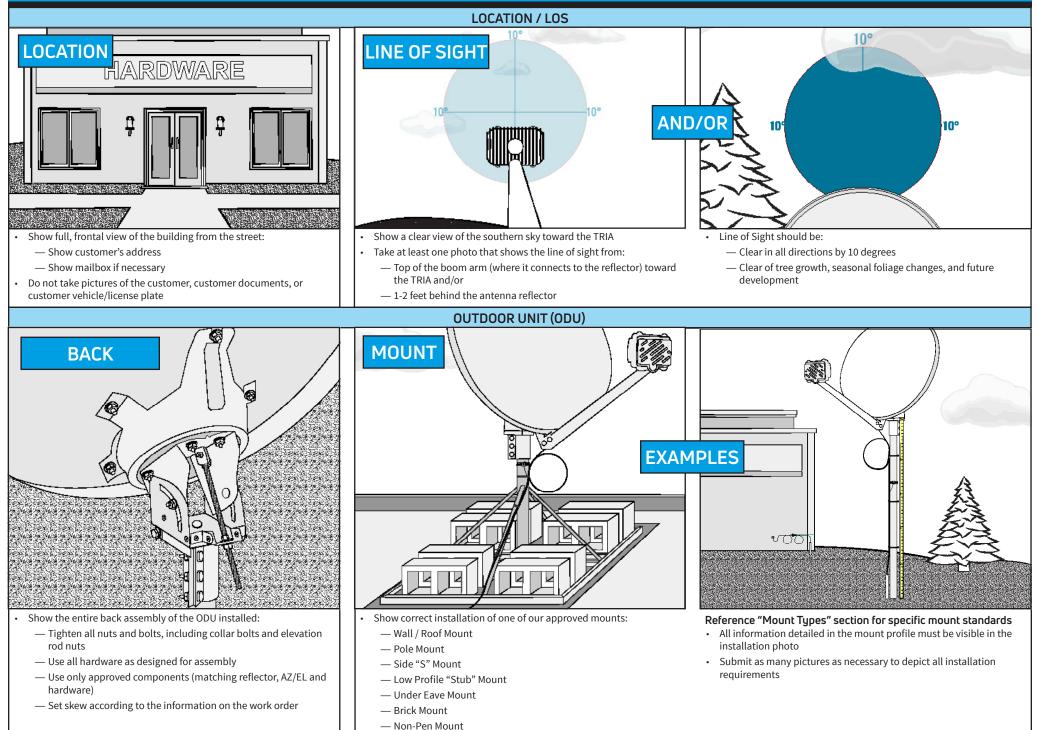
END-TO-END INSTALLATION & PHOTO REQUIREMENTS

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END-TO-END INSTALLATION & PHOTO REQUIREMENTS

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the ground run can be followed

Must be less than 20 feet

Show that the cabling:

— Is <150', neat, and follows the lines of the house

— Is attached using only screw clips

ground block and wall plate

Show the entire run from the ground block to the ground source:

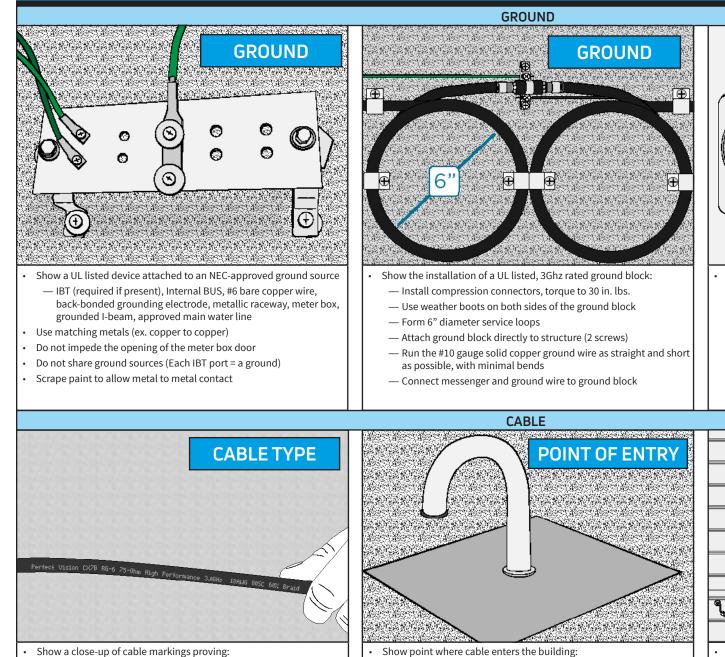
— May require multiple photos to demonstrate entire ground run

» If multiple photos are necessary, they must visually overlap so

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GROUND

CABLE RUN



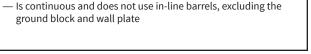
- Cable type and model number
- Solid copper, rated to 3GHz, 75 Ohm, 60% braid
- Cable is in good condition

For a side wall: Use a J-loop prior to entry

flashing prior to entry

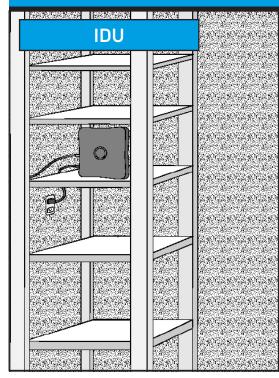
- Form cable bends with a diameter of at least 6"
- Never bend the cable to 90 degree angles

- For a flat roof: Use a J-tube, witch's hat, or other approved

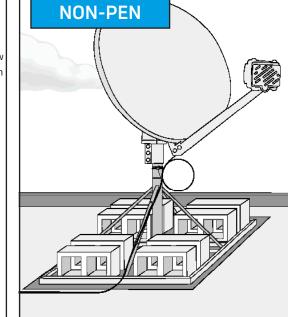


MOUNT TYPES

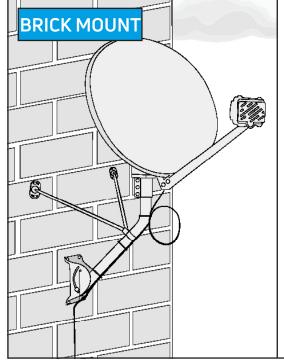
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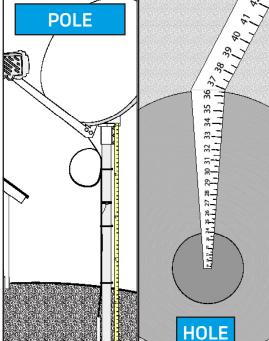
- Show indoor portion of cable run, from POE to IDU
- Show location of IDU proving:
- That it is indoors (near a desk, shelf, etc.)
- That it is in a place with adequate air flow Show that correct cable type has been used in the installation
 - Approved Plenum Use if the building forced air return is circulating or open
- Approved (Non-plenum) RG6 Coax Use in other instances
- Complete Exede Business cable details are available on the <u>eGuide</u>



- Approved for flat roof, balcony, deck, patio, and ground use when a pole mount is not an option
- Use a protective mat
- If using monopoles, position the collars
 2" below the bend, at a downward angle, forming a tripod
- Zip-tie cable to the mast, including a 6" diameter service loop
- Universal or stub mount based on location with snow as a consideration
- Should be placed in area of low traffic
- Surface must allow mast to be leveled
- Location should not be prone to flooding
- ODU is at least 3' from electrical panel and 20' from power lines
- Cable must not pose a tripping hazard
- Requires eight 28-pound cinder blocks for ballast
- Connect messenger/ground wire to either:
 - A galvanized strap on the mast, or
 - A green ground screw on the footplate
- Tighten all hardware completely



- Attach to an approved, structurally sound surface (load bearing wall, 28" away from corner/door/window/top of wall, no chimneys)
- Mount antenna at least 5' above walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure footplate using four 2" lags in corner holes and proper anchors
- Position monopoles 2" below the bend, at an upward angle, forming a tripod
- Monopole plates secured by two 2" lags, using proper anchors
- Lags must not be drilled into mortar, or more than two lags in one brick
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

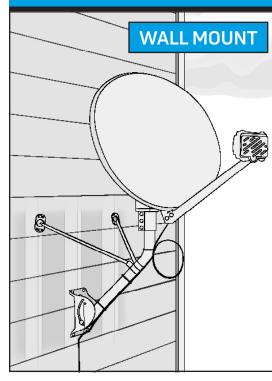


POLE MOUNT

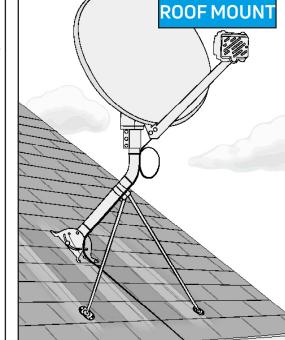
- Install in stable, solid ground
- Use an approved pole:
 - 2" OD, 9 gauge, or
 - 2 3/8" OD, Schedule 40
- Pole must be galvanized, have an anti-spin device, and 96" in length
- Install antenna at least 5' above walking surface, and photo displays measuring tape for entire pole length
- Use 150 lbs. of concrete (3 bags)
- Use 2 sweeps (1 at pole, 1 at house)
- If non-flooded cable is used, it must be buried in conduit
- Zip-tie cable to the pole, including a 6" diameter service loop
- Connect the messenger/ground wire to a galvanized ground strap
- Tighten all hardware completely

HOLE

- The hole must measure 36" from the bottom to the top
- Hole should appear 12" in diameter and bellshaped at the bottom



- Attach to an approved, structurally sound surface (wood or composite siding only)
- Mount antenna at least 5' above walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the wall with:
 Two 3" lags through center holes into stud
 - Four 2" lags through corner holes
- Position monopoles 2" below the bend, at an upward angle, forming a tripod
- Secure monopole plates to adjacent studs using two 3" lags
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely



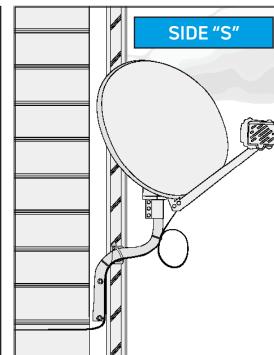
MOUNT TYPES

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- Attach to an approved, structurally sound surface (asphalt shingles only, sloped roof, close to the roof's edge, ideally not over living space)
- ODU is at least 3' from electrical panel and 20' from overhead power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the roof with:
 - Two 3" lags through center holes into rafter
 - Four 2" lags through corner holes
- Position monopoles 2" below the bend, at a downward angle, forming a tripod
- Secure monopole plates to adjacent rafters using two 3" lags
- Seal all drilled holes with tar-based sealant
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely

LOW PROFILE "STUB" MOUNT

- Attach to an approved, structurally sound surface:
 - Sloped roofs only
 - Asphalt shingles only
 - Close to the roof's edge
 - Ideally not over living space
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to the roof with:
 Two 3" lags through center holes into
- rafter
- Four 2" lags through corner holes
- Seal all drilled holes with tar-based sealant
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely



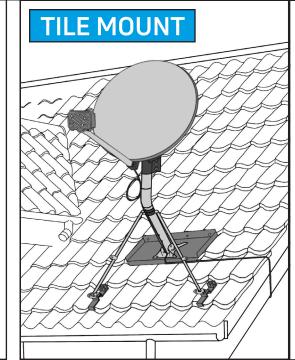
- Attach to an approved, structurally sound surface (wood or composite siding only, southern-facing corner, avoid touching the eave/roof with antenna)
- Mount antenna at least 5' above walking surface
- ODU is at least 3' from electrical panel and 20' from power lines
- Use only approved and matching ODU hardware
- Secure the footplate to a corner stud with:
 - Two 6" lags on S-tube
 - Two 3" lags on L-bracket
- Seal all drilled holes with silicone
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect messenger/ground wire to a galvanized strap or green ground screw
- Tighten all hardware completely

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MOUNT TYPES

- Attach to structurally sound railing, preferably near a wall or post
- ODU is at least 3' from electrical panel and 20' from power lines
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger to the L-bracket with a green ground screw
- Prevent hazards by properly routing and securing the coaxial cable
- Tighten all hardware completely



 Attach to an approved, structurally sound surface on a sloped tile roof (clay or concrete tiles only)

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- Avoid broken or cut tiles and use at least 3' from any flashing
- ODU is at least 3' from electrical panel and 20' from power lines
- Requires use of tri mast
- Place 2 or more rows from eave
- Position monopoles 2" below the bend, at a downward angle, forming a tripod
- Zip-tie cable to the mast, including a 6" diameter service loop
- Connect the messenger/ground wire to a green ground screw on the footplate
- Tighten all hardware completely