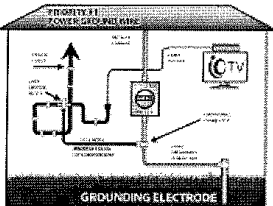
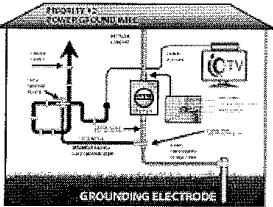
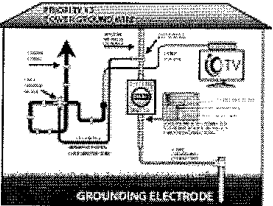
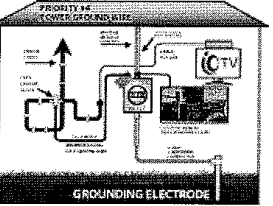


Grounding and Bonding

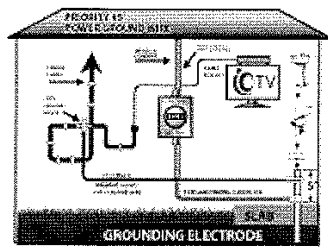
Grounding

It is important to understand that electricity will always seek a state of "0" zero potential (ground). Therefore, it is very important that all TELECOM electrical components are properly connected and grounded. Failure to properly ground an energized source can result in the following:

- Television "Hum-Bar"
- Drop is warm to touch or melted
- Flickering house lights
- No amperage reading on Ammeter
- Visual inspection reveals loose connections

Grounding Priorities	
 PRIORITY #1 POWER GROUND WIRE	• Grounding of CATV service must be connected to the customer's 6 AWG Grounding Conductor with a split bolt connector • The Maximum CATV ground wire length cannot exceed 15 feet
 PRIORITY #2 CONDUIT GROUND WIRE	• Grounding of CATV service is connected to the load side of the electrical meter's metallic conduit with a grounding strap. • Metallic conduit must be connected to the meter by a metallic threaded connection that is wrench tightened. • Rust and paint must be scraped off the surface of the metallic conduit beneath the grounding strap to ensure the integrity of electrical connection. • The Maximum CATV ground wire length cannot exceed 15 feet.
 PRIORITY #3 CONDUIT GROUND WIRE	• Grounding of CATV service is connected to the line side of the electrical meter's metallic conduit. <u>Line Side Conduit must be metallic</u> • Metallic conduit must be connected to the meter by a metallic threaded connection that is wrench tightened. • Rust and paint must be scraped off the surface of the metallic conduit beneath the grounding strap to ensure the integrity of electrical connection. • The Maximum CATV ground wire length cannot exceed 15 feet.
 PRIORITY #4 CONDUIT GROUND WIRE	• Grounding of the CATV service must be connected to the side of the Meter pan using the <u>Side Lip Mounted Meter Bonding Clamp</u>. • The clamp must be attached as to not impede the function of any moveable component of the meter pan. • The connection of the clamp must be checked to ensure the mounting screw has penetrated any surface paint and/or rust. • The maximum CATV ground wire length cannot exceed 15 feet.

Grounding Priorities



- Grounding of the CATV service must be connected to the metallic cold water main within 5 feet of the service main's entrance into the structure (i.e. house, building).
- Verification must be made to ensure that the cold water is a viable grounding electrode.
- Supervisor authorization is required before attempting to utilize cold water as a CATV ground.
- The maximum CATV ground wire length cannot exceed 15 feet.