

Single Family Home Fiber to the Home Requirements:

It is generally preferred that power and communications share the same trench from the fiber terminal to the home. This minimizes excavation work on the owner's property. While joint trenching is preferred, a minimum of 12" of separation must be maintained between the power and communications lines. This trench shall be a minimum of eighteen (18) inches deep. PROVIDENCE CITY will provide service drop conduit & locate wire to be placed in the open trench. Please call the PROVIDENCE CITY office @ (435) 753-0313 to give notification that a trench will be open.

The trench must extend from the fiber enclosure to the location of the home where the interior communications conduit is stubbed out. The fiber enclosure is usually at the corner of the property. If you have any questions about the exact location of this enclosure, please contact the PROVIDENCE CITY office @ (435) 753-0313.

At the Residence an interior communications conduit must be stubbed out between 4' to 6' from finished grade and 12" minimum separation from main power. The interior communications conduit must have a 200-pound pull string inside for ease of installation. (See item 1. from Home Wiring Requirements.) Any additional Cat 6 and coax cables shall not be stubbed out of the same hole on the outside wall of the dwelling.

The building contractor must provide a minimum of two (2) working days' notice of the open trench date to allow PROVIDENCE CITY time to schedule the placement of the conduit in the open trench by a technician. If prior arrangements have been made, PROVIDENCE CITY may provide the conduit to the Builder so that self-placement of the conduit may be done. The conduit should be coiled and secured above ground at the living unit and at the fiber enclosure or corner of the individual lot. There must be enough conduit on each end to easily reach the point where it will be terminated. Once placed, the building contractor will need to contact PROVIDENCE CITY to place and splice the fiber drop inside the conduit.

Single Family Home Wiring Requirements:

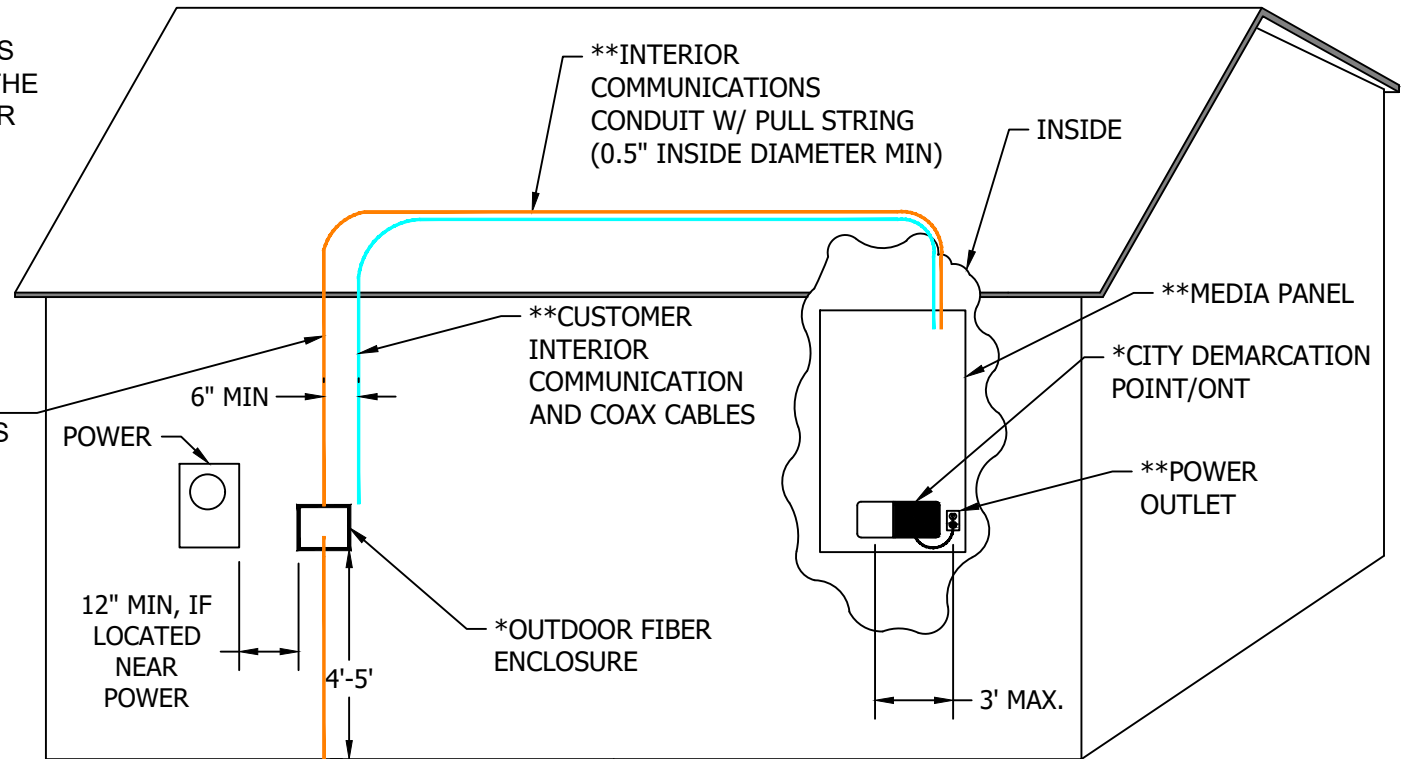
For many years the methods of low voltage wiring have served well to provide telephone service within a home. However, communication wires are now used for much more than telephones, they carry large amounts of data. With the rise of Fiber Optics, traditional wiring methods may not be suitable for today's communications demands. Provided below are methods that will help you get the best results from an improved fiber optic network.

1. Minimum .5" inside diameter conduit to be placed from outside of home to interior media panel or low voltage wire termination location. (See paragraph three (3) from Single Family Home Fiber to the Home Requirements.)
 - a. Conduit to have 200-pound pull string inside
 - b. Conduit shall not have any kinks, sharp bends, or any damage
 - c. Conduit shall follow the most direct route to the media panel with the least number of bends possible. Total bends shall not exceed 360 degrees (4) 90-degree sweeping transitions.
2. A 110-volt power receptacle to be placed inside or near the media panel for the purpose of powering the Optical Network Terminal "ONT".

Providence City recommends that homes be wired according to Structured Media Wiring methods. Because each communications line requires a home run, a media panel is the best method to protect and organize the home wiring. This media panel will be the central location for all wiring including telephone, data, COAX, and fiber optic wiring. Be sure to install a large enough panel to easily hold and organize all the wiring and is not constructed with materials that may cause interference with Wi-Fi signals (i.e., metal enclosures). It may often be necessary to install two panels.

NOTE:
 FIBER TERMINATION POINT DOES NOT HAVE TO BE LOCATED ON THE SAME WALL AS THE MAIN POWER SUPPLY; HOWEVER IF IT IS LOCATED ON THE SAME WALL, MAINTAIN MINIMUM REQUIRED SEPARATION OF 12 INCHES.

NOTE:
 ALL INTERIOR COMMUNICATIONS CONDUIT TRANSITIONS TO CONTAIN SWEEPING BENDS HARD 90'S ARE NOT PERMITTED.



*FIBER ENCLOSURE



*FIBER SERVICE DROP CONDUIT AND LOCATE WIRE 18" MIN BELOW FINISH GRADE

NOTE:
 *-PROVIDED BY PROVIDENCE CITY
 **-PROVIDED BY HOME OWNER/BUILDER

SINGLE FAMILY HOME FIBER TO THE HOME REQUIREMENTS