

Specifications for Cable Television Wiring Standards for UTK

1. All lines shall be home run to a communications room shared with Telephone Services and meet or exceed the **“Specifications for UT Telephone Services”**
2. All splitting equipment shall be mounted to $\frac{3}{4}$ ” plywood covered wall which is 2’ off the floor extending to 6’. Plywood is to be fire retardant or coated with fire retardant paint
3. One 15amp circuit in a quad box (4 receptacles) in communications room located 4 feet or less from amplifier
4. Minimum of one 4” conduit penetration into communications closet per 100 drop lines

Drop Wiring

- a. Conduit from each outlet box to extend to cable tray (max 6” from tray)
- b. Saddles in place of cable tray – place saddles at 36” intervals from end of conduit to communications room.
- c. All work must meet fire codes and all state and local building codes.
- d. Drops shall be terminated into a wall plate with the appropriate F barrel extending from the face of the plate

Wiring Routes above suspended ceilings

1. Attachments to support cable a maximum of every 48” (4 ft). Shorter intervals must be used if size or weight of wire deems it necessary to properly support the wiring. The support intervals shall be of uniform distances (48-48, 36-36, 24-24).
2. All cable television wiring should not be closer than 5” to any fluorescent light fixtures.
3. Wiring shall not be closer than 6” to a suspended ceiling where height allows. The space above the suspended ceiling may not allow 6” to be obtained in all cases.
4. Do not use electrical conduit, water pipes, heating and air conditioning duct, existing cabling or wiring as a support structure.
5. Wiring must not lie on top of suspended ceilings.

Conduit and Sleeves

1. Conduit size shall not exceed 40% capacity example: RG6: 1”emt = 5 drops/
2”emt = 20 drops/ 2.5”emt=34 drops/ 3”= 52 drops
2. Conduit shall have pull boxes at 100 foot intervals and not exceed four 45 degree bends between pull points
3. All emt shall have a plastic bushing on all entrance and exits to prevent damage to cables
4. Use a minimum of 1 “conduit (EMT or schedule 40 PVC) for sleeving material
5. Size sleeving for maximum number of drops that can be placed in the area to be served. 1”emt = 5 drops/ 2”emt = 20 drops/ 2.5”emt=34 drops/ 3”= 52 drops
6. All sleeves must be fire stopped around the outside of the sleeve at the wall and also at each end of the sleeve around the wires. (Code)

Cable

1. Drop cable shall be quad shielded RG6 that meets all fire codes including plenum space, and is equal to or exceeds Belden 1189A specifications. Drop lengths shall not exceed 250 feet over RG6. If the drop exceeds 250 feet , but is under 500 feet RG11 must be used.
2. All distribution exceeding 250 feet, but under 500 feet shall be quad shielded RG11 that meets all fire codes including plenum space, and is equal to or exceeds Belden 1617A specifications. If the distribution exceeds 500 feet Times Microwave hard line or and equivalent must be used.

Connectors

1. Connectors shall be LRC snap-n-seal for all coaxial cable
2. Connectors for hard line shall meet or exceed Gilbert brand

Splitters

All splitters and directional couplers shall be 1ghz band pass, rf shielded, externally grounded, low insertion, return, and tap loss. They shall also be highly isolated.