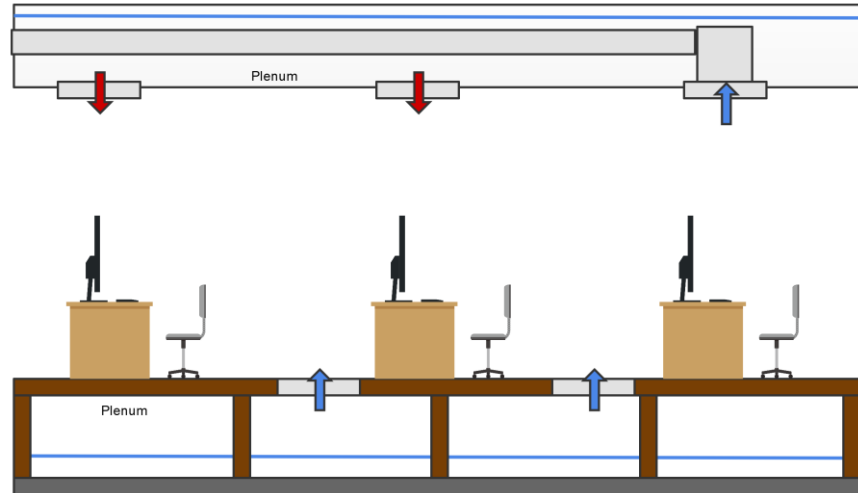


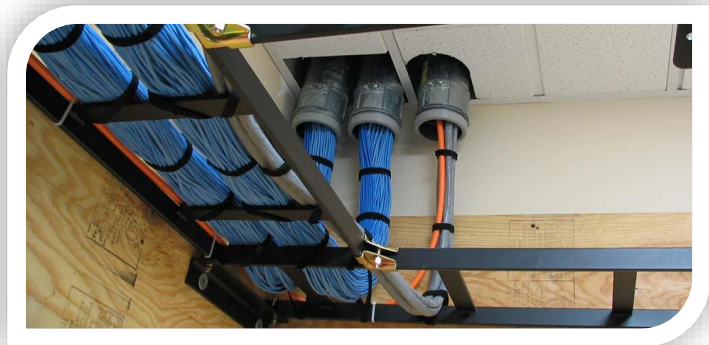
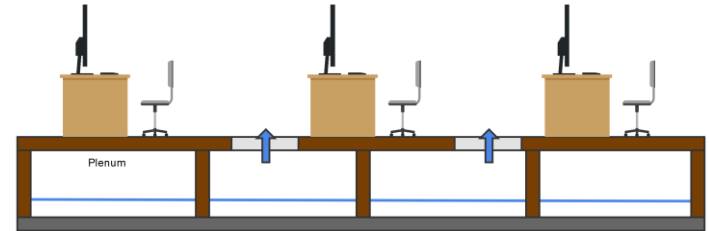
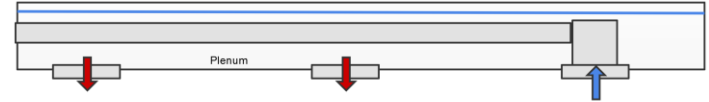
The Plenum

- The plenum is the open space above the ceiling or below a raised floor.
- A “plenum space” is the part of a building that enables air circulation by providing pathways for heated/air-conditioned and return airflows at a higher pressure than normal.
- All network cabling placed in the plenum should be “plenum-rated.”



Non-Plenum-Rated & Fire Hazard

- Non-plenum cable or polyvinyl chloride (PVC) cable is often much less expensive than plenum-rated cable.
- When PVC burns or smolders, it releases toxic fumes into the air (Hydrochloric Acid and Dioxin).
- The plenum air return would unknowingly circulate toxic air throughout an office.
- Sprinkler systems typically can't access the plenum area.
- Building codes often require Plenum Rated cable installed through any plenum space.



Plenum-Rated Cables

- Plenum-rated cables have a special insulation that has low smoke, low flame and non-toxic characteristics.
- Coated with nonflammable materials that minimize toxic fumes:
 - Teflon
 - Fluorinated ethylene polymer (FEP)
 - Low-Smoke PVC