

### **3.5.3 Vertical Containment – Within the Home/Villa/Warehouse**

All UTP cables between the floors inside a home must run through 2 x 50 mm diameter PVC conduits via a junction / pull box located on each floor. The junction/ pull box must be of minimum dimensions 300 mm x 300 mm x 150 mm (W x H x D). The slab opening (if required) for these conduits must be in a suitable and accessible location in every floor. It is recommended that all vertical conduit runs be aligned to ease the installation of cables.

### **3.5.4 Horizontal Containment – From Floor Telecom Space to Consolidation Points**

The horizontal containment for routing cables from the floor telecom space to consolidation points on the served floor can use several systems (cable trays, ducts, Micro ducts, etc.). The solution will depend on the characteristics of the building type. Ducts or Micro ducts must only be used when the consolidation point locations are permanent, the cable density is low, the flexibility to modify the routing is not required and following ducts can be installed from the floor telecom room to each tenant;

- Dedicated individual runs of 50 mm conduit to be installed from floor telecom space to each tenant.
- The horizontal cable tray size must be 200mm x 50mm (HDFR) inside the building corridor.
- OR ; to allow the Air Blown installation of drop fiber cables from the Floor telecom room to the tenant's consolidation cabinet through Micro ducts , following shall be installed;
- Dedicated (2) Way 5/8 mm Micro ducts with halogen free Jacket & flame retardant material (LSZH specification), as one duct will be used for cable laying while other duct to be kept unused for the future requirements.
- All Horizontal Micro ducts to be extended from the Mini ODFs in FTR up to the tenant's consolidation cabinet.
- Final Micro ducts requirements shall be confirmed during building design approval stage

### **3.5.5 Horizontal Containment – Mobile Service Antenna**

Horizontal containment must be provided to route mobile-service antenna cables from the floor telecom closets to all common corridors including all lift lobbies, podium levels and basement levels.