a) Made from black uPVC or HDPE;

b) The uppermost part of ducts to be buried to a depth of 600mm below the finished ground level;

c) Sloping away from the building;

d) Protected by concrete when running under permanent paved surfaces;

e) Sealed at each end to prevent the ingress of any materials such as water, sub-soil, gas, or pest;

f) An entry/pull box must be installed for any right-angled or sharp bends in the lead-in duct(main and redundant) route;

g) If required, at the entry to the main telecom room, a wide-angle long radius bend (factory made) may be provided; alternatively an entry boxes (for main and redundant route) may also be provided; and

h) –All ducts must include a draw rope made of twisted mildew and resistant polypropylene; minimum outside diameter of 6mm; minimum tensile strength of 2400lbs/1000kg.

3.2.1 Lead-In Ducts – Building Entry

Where main and redundant lead-in ducts cannot be routed directly into the main telecom room, Hot-Dip Galvanized (HDG) slotted steel cable trays must be provided as an alternative. These trays must be easily accessible in common areas to facilitate any future provision of additional cables. However, if these trays are in an area accessible to the public and are less than 4.8 m above the floor, the trays must be covered. A cable tray of minimum dimensions 300 mm x 100 mm (W x H) with Heavy Duty Return Flange (HDRF) will be required for each plot entry point (main and redundant).

3.2.2 Lead-In Ducts – Entry Box

Entry boxes are required for the Operators to install their cables through the main and redundant lead- in duct inside the plot. The type and size of entry/pull boxes will depend on the characteristics of the building development. The details for entry boxes are included in the text below and summarized in **Appendix6- - Summary Table ISP Specification.**