.1 General Information

.1 In general, the use of cable tray along corridors is preferred for communications cable installation and management. Where space permits, cable tray shall be minimum 300mm wide and 150mm deep. Ladder type tray with rungs at minimum every 150mm is required. Where there is insufficient space, use basket tray as specified.

.2 Cable tray shall also be provided inside communications rooms running along the perimeter of the room.

.3 Where cable tray is install in server rooms, tray will be exposed and will require multiple receptacle outlets of various CSA configurations. This will require confirmation with the FMGT Project Officer prior to design

.2 Cable Tray – Centre Hung Type

.1 Centre hung supported tubular member steel tray system, complete with minimum C-1 load rating and triangular 100mm deep rungs spaced at 150mm centres.

.2 Tray sections joined by two bolt splice connector complete with 12mm diameter threaded steel rod support assembly.

.3 Cable tray to be bottom rung supported nominal 305mm wide.

.4 Rungs to be complete with protective end caps.

.3 Cable Tray – Basket Type

.1 Ceiling steel rod cantruss rack supported 150mm wide wire basket type tray system, 50mm high, and 50mm x 100mm mesh pattern.

.2 Heavy gauge zinc plated carbon steel wire.

.3 Provide radiused drop outs at each cable tray termination (5 positions) and 8 positions above optical table.

.4 Provide 10mm threaded rods for support of cable tray.

.5 Provide plastic protector caps for protection from irregular cuts.

.6 Provide 90 degree horizontal elbows (radiused corners) at all turns.

.4 Installation

.1 Support cabletrough on one or both side(s) depending on if the cabletrough is centre hung or basket tray style.

.2 Cable tray system is not to pass through walls. Penetration at all wall locations to consist of minimum four (4) 50mm conduit sleeves, complete with bushings at each end, and sealed around conduits to maintain integrity of wall separation system. Where penetrations pass through fire rated assemblies, use four (4) 100mm square STI EZ-Path fire stopping sleeves.

.3 Provide bonding of cable tray system using #6 copper bonding conductor connected to building ground system in accordance with Canadian Electrical Code.

.5 Cables In Cabletrough

.1 Lay cables into cabletrough individually using rollers when necessary to pull cables.

.2 Secure cables in cabletrough at 6 m centres, with nylon ties.

.3 Identify cables every 30 m with size 2 nameplates.