

## **1 GENERAL**

### **1.01 SYSTEM DESCRIPTION**

- .1 Telecommunications raceways system consists of outlet boxes, cover plates, terminal distribution cabinets, conduits, pull boxes, sleeves and caps, fish wires.
- .2 Overhead distribution system.

## **2 PRODUCTS**

### **2.01 MATERIAL**

- .1 Conduits: to Section 26 05 34 - Conduits, Conduit Fittings, and Fastenings.
- .2 Outlet boxes: to Section 26 05 32 - Outlet Boxes, Conduit Boxes, and Fittings.
- .3 Fish wire: polypropylene type.

## **3 EXECUTION**

### **3.01 INSTALLATION**

- .1 Install cable tray, basket tray and raceway system, including fish wire, outlet boxes, pull boxes, cover plates, conduit, sleeves and caps, miscellaneous and positioning material to constitute complete system and in accordance with Section 26 05 34 - Conduits, Conduit Fittings and Fastenings.
- .2 Provide corrugated Inner duct for all fibre optic cables installed in conduit or cable tray. Extend Inner duct to rack-mounted patch panels in the communication rooms.
- .3 Use EMT in areas with unfinished or inaccessible ceiling systems and in all walls. Size in accordance with cable manufacturers' recommendations and the requirements of the Canadian Electrical Code. Conduit sizing to include a 25% allowance for future. Under no circumstance install more

than 40% fill ratio in any conduit, including the 25% allowance. Install bond conductor in all EMT.

- .4 Provide nylon insulated bushings at conversion of EMT to free air system.
- .5 EMT type conduit wall-stub complete with flush installed device box shall be located in all walls/partitions. Turn out stubs into accessible ceiling space within the same room where possible.
- .6 Where the grouping of various systems outlets or multiple type outlets in drywall type construction is specified, install box mounting brackets between and secured to both metal studs. Install suitably sized 100mm square and/or 119mm boxes complete with raised tile rings as required.
- .7 Minimum conduit size to be 27 mm diameter.
- .8 Each telecommunications outlet box to be a minimum 119 mm square, 54 mm deep box, complete with one-gang raised plaster ring.
- .9 Where telecommunication outlet boxes are required to be surface mounted, provide a single gang deep "FS" type box (minimum volume 368 mL) complete with "FS" type cover plate.
- .10 Do not install more than four (4) cables in a double-gang box.

**END OF SECTION**