

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Division 01 – General Requirements.
- .2 Section 26 05 31 – Splitters, Junction Boxes and Cabinets.
- .3 Section 26 05 34 – Conduits, Conduit Fastenings and Conduit Fittings.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .1 ANSI/TIA/EIA 569-B, Commercial Building Standard for Telecommunications Pathways and Spaces.
 - .2 BICSI Telecommunications Distribution Methods Manual, 11th Edition.
 - .3 BICSI Customer-Owned Outside Plan Design Manual.
 - .4 Canadian Standards Association (CSA International)
 - .1 CSA C22.1-12, Canadian Electrical Code, Part 1 (22nd edition), Safety Standard for Electrical Installations.
 - .2 CSA C22.2 No. 182.1-13, Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type.
 - .3 CSA C22.2 No. 214-08 (R2013), Communication Cables (Bi-National Standard, with UL 444).
 - .4 CSA T568.1-05 (R2010), Commercial Building Telecommunications Cabling Standard – Part 1: General Requirements.
 - .5 CSA T568.3-05 (R2010), Optical Fiber Cabling Components Standard.
 - .6 TBITS 6.9, Profile for the Telecommunications Wiring System in Government Owned and Leased Buildings.

1.3 SYSTEM DESCRIPTION

- .1 Telecommunications raceways system consists of outlet boxes, conduits, sleeves and caps, fish wire, and service fittings.

Part 2 Products

2.1 MATERIAL

- .1 Conduits: EMT type, in accordance with Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .2 Outlet boxes wall type, conduit boxes 100 mm X 100 mm size by 65 mm deep C/W single gang plaster ring, and fittings: in accordance with Section 26 05 31 - Splitters, Junction, Pull Boxes and Cabinets.
- .3 Fish wire: polypropylene type.

Part 3 Execution

3.1 INSTALLATION OF CONDUIT

- .1 All conduit to be concealed EMT, minimum 27 mm or as noted. Ream and bush both ends. Install fish wire in all conduits.
- .2 Conduit bends to be minimum:
 - .1 6 times trade diameter for conduit less than 50 mm diameter.
- .3 LB, LR, LL or Conduit fittings shall not be used in place of bends.
- .4 Where outlet boxes are indicated to be interconnected with horizontal runs of conduit, install conduit such that cables will enter first box from top and exit from the bottom.

3.2 IDENTIFICATION OF BOXES AND CONDUIT

- .1 All conduits to be labelled at both ends. Pull boxes or junction boxes to have identification number on cover i.e. pull box 2 in room 144 = PB 144-2. Outlets to be numbered and identified per building standard.
- .2 Conduits to be colour coded blue.

3.3 INSTALLATION

- .1 Install system, fish wire, outlet boxes, conduit, sleeves and caps, miscellaneous and positioning material to constitute complete system from each Data Voice Outlet (DVO) to accessible ceiling space.
- .2 Pathways and spaces as per CSA Standard ANSI/TIA/EIA 569-A.

3.4 AS-BUILT DRAWINGS

- .1 The Contractor shall provide a record drawing for communications raceway system. Conduit locations and sizes, and receptacle numbers shall be clearly marked. Locations shall be dimensioned from adjacent walls and clearly recorded.

END OF SECTION