

1 General

1.1 REFERENCE STANDARDS

- .1 System to be installed in accordance with ANSI/TIA/EIA 568A Commercial Building Telecommunications Cabling Standard.
- .2 CSA C22.2 No. 214 - Communication Cables.
- .3 CSA C22.2 No. 232 - Optical Fiber Cables.

1.2 RELATED WORK

- .1 Conduits, Conduit Fastenings and Conduit Fittings: Section 26 05 32
- .2 Splitters, Junction, Pull Boxes and Cabinets: Section 26 27 17
- .3 Outlet Boxes, Conduit Boxes, and Fittings: Section 26 05 34
- .4 Coordinate with local utilities for telephone service connection.

1.3 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings and product data in accordance with Section 01 33 00.

1.4 OPERATION AND MAINTENANCE DATA

- .1 Provide data for incorporation into Maintenance Manual as specified in Sections 01 78 00 and 26 05 00.

1.5 WARRANTY

- .1 System to be installed by qualified technicians and warranted for twenty (20) years.

2 Products

2.1 GENERAL MATERIALS

- .1 Outlet boxes, unless specifically noted otherwise, shall be single gang, type to suit construction.
- .2 Pull boxes shall be type D of minimum length sixteen times the internal diameter of the largest conduit.
- .3 Conduits shall be EMT size as indicated, installed from outlet to collector pull boxes, and from pull boxes to telephone room as indicated, or data wiring open and ty-wrapped together to Communication Room, as indicated.

2.2 UTP CABLE

- .1 Cables shall consist of 4 unshielded twisted pairs of 24 AWG insulated solid copper conductors, standard inside colour code with stripe marking and an overall thermoplastic jacket. The cable shall be certified by CSA as type PCC with a FT4 flame - test rating.
 - .1 Standard of Acceptance: Panduit TX6000 Category 6 UTP Cable.
 - .2 Other Approved Manufacturers: Amp, Belden, Berk-Tek.

2.3 OUTLETS

- .1 Individual room outlets, unless specifically noted otherwise, shall be single gang faceplates to hold up to four connector modules.
 - .1 Standard of Acceptance: Panduit Mini Com, CFP4.
 - .2 Other Approved Manufacturer: Amp, Nordx
- .2 Modular jackets shall be 8 position, 8 wire universal category 6 modular jackets. Blue in color for

data and ivory in color for voice.

- .1 Standard of Acceptance: Panduit Mini-Jack TX-6, CJ688T.
- .2 Other Approved Manufacturers: Amp, Ortronics, Nordx

2.4 PATCH PANELS

- .1 Patch panels supplied with 6 CFFP type snap-in faceplate and 24 modular jacks. Contractor to allow for 20% spare patch locations above system requirements.
 - .1 Standard of Acceptance: Panduit Giga Channel TX-6 modular patch panel, CPPKTG24.
 - .2 Other approved Manufacturer: Amp, Nordx

2.5 VERTICAL COMMUNICATIONS RACK

- .1 2135 mm by 482 mm frame complete with plexiglass front door and lowered rear door, four (4) vertical cable management and two (2) cable ladders, three (3) 9-outlet 1200 mm power bars and two (2) cabinet fans.
 - .1 Standard of Acceptance: Hubbell HPW78C19X30
 - .2 Other Approved Manufacturers: Middle Atlantic

3 Execution

3.1 INSTALLATION

- .1 Verify that all data equipment is compatible with existing equipment panels before placing order for computer data outlet jacks and cable, also verify location of all computer (data) outlets prior to installation.
- .2 Co-ordinate with telephone company before installing conduit, boxes and outlets.
- .3 Install conduit, raceways, boxes, cable, jacks and coverplates as per drawings and manufacturers recommendations.
- .4 Perform tests in accordance with Category 6 requirements.
- .5 Identify cable at each end (at outlet and rack) and identify outlet cover plate by room or jack data number.
- .6 Install grounding facilities and make connections at telephone terminal boards and computer (data) racks.

End of Section