

1.0 GENERAL

1.1 DOCUMENTS

- .1 This section of the Specification forms part of the Contract Documents and is to be read, interpreted, and coordinated with all other parts.

1.2 SUMMARY

- .1 Section Includes:
 - 1.0 GENERAL
 - 1.1 DOCUMENTS
 - 1.2 SUMMARY
 - 1.3 OVERVIEW
 - 1.4 PRODUCTS
 - 2.0 EXECUTION
 - 2.1 COMMUNICATION ROOMS
 - 2.2 UTP HORIZONTAL CABLE
 - 2.3 BACKBONE CABLING
 - 2.4 ENTRANCE CABLING

1.3 OVERVIEW

- .1 Unless specified otherwise, designation labels on outlet plates shall be printed on designation strips located behind label windows on plastic plates, as detailed in these and related specifications. Alternate methods must be submitted to the Information Technology Representative for approval. Lamacoid labels will not be accepted.
- .2 After terminating and identifying a Communications cable, each cable shall be identified with a unique cable number, as detailed in these and related specifications. A circuit (CCT) starting number and range will be provided to the contractor by the UBC Information Technology Representative.
- .3 The Contractor shall supply CCTK data sheets produced from the UBC IT supplied database file, to the UBCO Information Technology Representative. This is to be done following termination of the voice and data cables within a Communication room, and regardless if cutover of field ends are completed or not. The data sheets shall identify whether an outlet is new, existing being replaced, or is part of special services such as pay phone, emergency phone, elevator phone, BMS, fire alarm monitoring, security, clock etc. The data sheet will also identify all Access Point cables with the designation "AP". As the Access point cables are installed in pairs, the two associated cables will be identified as paired to each other with a comment in the last comments field. All AP cables that connected to the site installed APs must include the UBC IT provided AP Network Name in the alternate comment field. AP radio names will be also required to be populated in the CCTK data sheet submission if the contractor has installed the APs as part of the project. In addition, all other special service cables should be identified in the comments field with a description of the special service. Some, but not all, examples of special services are cameras, fire alarm, elevator, clock, emergency phone, etc.
- .4 The Contractor will be responsible to correct any labeling errors that may result by pre-labeling the cables before submitting the CCTK data sheet to the UBCO IT representative for approval.

- .5 All Communication rooms will be assigned a unique terminal ID number (which is not the room number). The number will be displayed in the form of a stick-on plastic labels as approved by the UBC Information Technology Representative. Only (1) character will be displayed on each label, which will be 50 mm high and shall have permanent Blue or Black digits on a Yellow or Orange background. The Contractor shall install these labels in all Communication rooms to the satisfaction of the UBCO Information Technology Representative. Alternative labels to be approved by UBC IT before use.
- .6 Before commencing the labeling, the Contractor shall supply samples of methods of labeling and materials used for approval by the UBCO Information Technology Representative.

2.1 **COMMUNICATION ROOMS**

.1 **MCR / LCR TERMINAL ID ASSIGNMENTS**

All Communication rooms shall have unique terminal numbers assigned:

B21 will be second basement level – representing 1st Communications Room.

B11 will be first basement level – representing 1st Communications Room.

01 will be ground level – representing 1st Communications Room.

11 will be 1st floor level – representing 1st Communications Room.

21 will be 2nd floor level – representing 1st Communications Room.

22 would then be 2nd floor level – representing 2nd Communications Room on that level.

2.2 **UTP/STP HORIZONTAL CABLE**

.1 Data

- .1 Data horizontal cable shall be identified at each termination with a unique number at the cable jacket end.
i.e. CCTK0122-P01-24

CCTK0122 Range supplied by UBCO Information Technology Representative

01 Represents assigned building number

22 MCR/LCR Terminal ID

P01-04 Represents patch panel and jack position.

2.3 **BACKBONE CABLING**

.1 **Data Copper**

- .1 Typically UBCO IT does not require Copper backbone cables for data purposes. When the Contractor has been instructed to install CAT 6A UTP/STP cables in the Backbone these cables shall be grouped in counts of six and identified on each cable and patch panel termination with a label and purple icons.

NOTE:

Backbone cables are grouped onto the same patch panel and not mixed with horizontal cable terminations patch panels. (Refer to Standard Drawing ITSTD-32)

- i.e. 011 Rm xxx to 012 Rm xxx Port1-6
011 Rm xxx - represents MCR Terminal ID and room number
012 Rm xxx - represents LCR Terminal ID and room number
Port1-6 - represents which ports of the patch panel are included.

.2 Fibre

- .1 When the Contractor has been instructed to install fibre (24SM typical) cable from the MCR to each LCR, each end of the cable and termination panel will be labeled with a "From - To" Label. (Refer to Standard Drawing – ITSTD-32)

Fiber Cable Label and Fibre Panel Card Label

- i.e. 011 Rm xxx to 012 Rm xxx 24MM
011 Rm xxx represents MCR Terminal ID
012 Rm xxx represents LCR Terminal ID
24MM represents 24 multi-mode strand cable

2.4 ENTRANCE CABLE

(Refer to Section 27 05 06 – by Others)

END OF SECTION 27 05 53