

## ANNEX "C" – ROCKET CARD WIRING STANDARD

### PART 1 – GENERAL

#### A. RELATED DOCUMENTS:

1. Division 16 Basic Materials and Methods Sections and the Intrabuilding Data/Communication Cabling Section 16751 shall apply to work specified in this Annex. The Associate/Contractor is responsible to be familiarized with the provisions contained therein.

#### B. SCOPE OF WORK:

1. "Rocket Card" network wiring to consist of a dedicated standard based wiring infrastructure for support of a proprietary network.
2. Furnish, install and test, as required, all conduit, conduit boxes, pull boxes, conduit bushings, sleeves, cables, cable supports, firestopping, patch panels, patch cords, connectors, organizers, component and cable labels, designation strips, equipment racks, equipment cabinets, etc. as required for complete and functioning system.
3. Components, materials and methods of Section 16751 shall apply as applicable.
4. "Rocket Card" network wiring to be a standard based infrastructure similar to the Section 16751 Campus Network Cabling except dedicated to the "Rocket Card" network.
5. The "Rocket Card" cabling to be distinguished from the Campus Network Cabling by a distinction outlet jack and cable color and dedicated distinguished patch panels with active electronics segregated from the Campus Network cross connect fields.

#### C. COMPLIANCE:

1. The "Rocket Card" network installation shall conform to the latest edition of the NEC, national, state and local code which apply.
2. The "Rocket Card" network installation shall comply with all NFPA, NEMA, EIA/TIA, IEEE, ANSI, ISO and U.L. standards as applicable. All components and materials shall be U.L. listed.

## PART 2 – PRODUCTS

### A. GENERAL:

1. Workmanship and design shall be in accordance with the requirements of the "Rocket Card" network vendor and manufacturer.
2. All active equipment and components shall be provided and installed by the Owner unless otherwise noted.

### B. COMPONENTS:

1. Outlet Box: Shall be the standard two (2) gang deep box with a two (2) gang plaster ring and 1"C stubbed up and out per Specification Section 16741.
2. Faceplate: Shall be a two (2) gang six (6) port stainless steel faceplate with two (2) "Rocket Card" jacks installed. Fill all unused ports with gray blank inserts.
3. "Rocket Card" Jacks: Shall be the same as the standard data jacks, per Specification Section 16751, except the color shall be yellow.
4. "Rocket Card" Patch Panel: Shall be the same as the standard data patch panel, per Specification Section 16751, except it shall be a "stand alone" dedicated patch panel for "Rocket Card" terminations and shall be distinctively identified by means of yellow patch panel labels.
5. "Rocket Card" Data Cable: Shall be as the standard horizontal outlet data cable per Specification Section 16751, except yellow in color.
6. "Rocket Card" IP Converter Shelf: Shall be a 19" W x 11.5" Deep x 3.5" High equipment shelf, black: Homaco #ES-19-1B, SWDP #SWE19BK or Owner/Associate approved equal. Provide one (1) shelf per thirty-two (32) ports of "Rocket Card" network utilized (2 x 16 port IP Converters).

## PART 3 – EXECUTION

### A. INSTALLATION:

1. Install cabling and terminate same as standard data cabling per Specification Section 16751.
2. Intermixed routing of cables with standard data cables is permissible.
3. Separate out the "Rocket Card" cables for termination in sequential order on the designated patch panel.

4. The "Rocket Card" patch panel or panels shall be located adjacent to (above and/or below) the IP Converter Shelf.
5. The "Rocket Card" network equipment shall be located as directed by the Owner in the standard 19" equipment racks, separated from the Campus Data Network cross connect fields such as to minimize errant connections, yet convenient for IP Converter interconnection to the local network switch/hub.
6. "Rocket Card" outlet locations may be required above the ceiling for interconnection to special application readers such as door access controllers, point of sale (P.O.S.) outlet, etc.
7. Above ceiling outlet boxes shall be housed in a single gang handy box, utilizing a two (2) port stainless steel faceplate with two (2) "Rocket Card" jacks installed. The outlet box shall be anchored to building structure utilizing a beam clamp, dedicated drop wire and drop wire clip, "T"-bar and "T"-bar clip, etc. as required. Provide grommeting and strain relief for the cables at the outlet box.
8. Outlet, jack and cable identification shall be provided per The University Standard, Annex "A", implement the same as data outlets.
9. It is recommended that only one (1) "Rocket Card" reader device should be connected to a network port.
10. However it is possible for more than one reader device to share a port. Multiple "Rocket Card" outlet jacks shall not be wired to a single data cable. If multiple reader devices must share a single port, modifications to the wiring must be made external to the structured wiring, at the reader devices and shall be performed by the Owner or under the direction of the Owner only.
11. The location of all "Rocket Card" outlets shall be coordinated with and approved by the "Rocket Card" office.

#### PART 4 – TESTING

- A. "Rocket Card" network cabling shall be tested as per standard Specification Section 16751 method, procedures and standards.
  1. Segregate the "Rocket Card" network cabling test reports from the Campus Network Cabling Test Reports, do not intermix reports.
  2. Include the "Rocket Card" test reports with the Campus Network Cabling Reports per Specification Section 16751.

END OF ANNEX "C"