

271113 – COMMUNICATIONS ENTRANCE PROTECTION

PART 1 GENERAL

1.1 RELATED SECTIONS

- A. Section 27 05 26: Grounding and Bonding for Communications Systems.

1.2 REFERENCES

- A. NFPA 70 - National Electrical Code; National Fire Protection Association; 2002.
- B. See Section 27 00 00: Communications General.

1.3 DEFINITIONS

- A. See Section 27 00 00: Communications General.

1.4 DESIGN REQUIREMENTS

- A. The design shall specify building entrance terminals (BET) and protector modules of the type and manufacturer specified by this document.
- B. Design for multiple BETs such that grounding conductors connecting them are straight. Design BETs such that grounding conductors connecting them to the TMGB are as straight as possible.
- C. Do not specify BETs to be inter-connected with horseshoe-shaped conductors. For multiple columns or rows of BETs, each column or row shall be connected to the EF busbar in as straight a fashion as possible.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Building Entrance Terminals
 - 1. 710 module or 110-style block on the “in” side
 - 2. 110-style block on the “out” side
 - 3. Fully enclosed housing covering terminations and modules
 - 4. Manufacturer
 - a. Circa
 - b. No substitutions
- B. Building Entrance Terminal Modules
 - 1. PTC (positive temperature coefficient) version

- 2. Manufacturer
 - a. Circa, C4B1E (PTC)
 - b. No substitutions
- C. Other materials as needed to connect to the telecommunications grounding system.

PART 3 EXECUTION

3. 1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Contractors shall install multiple BETs such that grounding conductors connecting them are straight. Contractors shall install BETs such that grounding conductors connecting them to the TMGB are as straight as possible.
- C. Contractors shall not inter-connect connect BETs with horseshoe-shaped conductors. For multiple columns or rows of BETs, each column or row shall be connected to the entrance facility bus bar in as straight a fashion as possible.
- D. The Contractor shall not connect more than BET to another BET beyond the TBB connection. Manufacturer requirements shall be followed and allow for a single BET to act as a "hub" for other BETs, but not beyond a second tier.

END OF SECTION 271113