

SECTION 27 11 13
COMMUNICATIONS ENTRANCE PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, tools, and equipment required mounting communications cabling entrance protection.

1.2 RELATED DOCUMENTS

- A. The following codes shall be followed as required by law:
 - 1. ANSI/NFPA-70, National Electric Code
- B. The following standards shall be followed:
 - 1. ANSI/TIA-568C.
 - 2. ANSI/TIA569C
 - 3. ANSI/TIA758-B
 - 4. ANSI/TIA/EIA-606-A
 - 5. ANSI-J-607-A
 - 6. UL 497, 497A, 1449
- C. The following guidelines shall be followed:
 - 1. BICSI, Telecommunications Distribution Methods Manual (TDMM)
 - 2. BICSI, Information Transport Systems Installation Methods Manual (ITSIMM)

1.3 QUALITY ASSURANCE

- 1. Listed materials (by Nationally Recognized Testing Laboratory)

PART 2 – PRODUCTS

2.1 BUILDING ENTRANCE TERMINALS (BET)

- A. Wall mountable.
- B. Populated with factory-installed and tested 5-pin 3-element gas tube protector unit.
- C. Protectors shall be UL listed.
- D. Shall have external ground lug for building ground or connecting additional protectors.
- E. Refer to drawings for location, quantity and type (shape) of entrance terminals.
- F. Manufacturer shall be one of the following:
 - 1. Circa
 - 2. ITW Linx
 - 3. Porta Systems

2.2 4-PAIR BUILDING ENTRANCE PROTECTOR

- A. For all applications where a single voice/data/security 4-pair category cable serves an outlet outside the footprint of the building (ie, an emergency telephone, exterior wireless access point, or exterior IP Security camera).
- B. 110 Termination
- C. Shall be certified ~~up to category 6 cable performance~~ to the performance of the cable, up to Category 6A, including power-over-ethernet applications.
- D. Shall contain Solid State modules.
- E. Protectors shall be UL listed.
- F. ~~Manufacturer shall be~~ Acceptable manufacturers:
 - 1. ITW Linx, ~~CAT6-75~~
 - 2. Porta Systems, 606-65
 - 2-3. Approved equivalent

PART 3 - EXECUTION

3.1 BUILDING ENTRANCE TERMINALS

- A. Mount BET on wall surface in a manner sufficient to support the weight and to sustain incidental contact.
- B. Field-verify actual length required for the input and output stubs.
- C. Install grounding wire as straight as possible from terminal to Telecommunications Main Grounding Busbar (TMGB)/Telecommunications Grounding Busbar (TGB).

3.2 4-PAIR BUILDING ENTRANCE PROTECTOR

- A. Where conduit for exterior outlets stubs into Communications Room, locate protector on plywood backboard. Label protector with outlet identifier.
- B. Where conduit for exterior outlets stubs into building in a place other than in a Communications Room, install protector into an appropriately-sized junction box for physical protection. Label junction box with "ENTRANCE PROTECTION FOR EXTERIOR COMMUNICATIONS OUTLETS" and outlet identifier(s).
 - 1. Identify this location on Record Drawings.

3.3 GROUNDING AND BONDING

- A. Where protector is located in Communications Room, bond protector to TMGB/TGB with #6 AWG copper ground wire.
- B. Where protector is not located in Communications Room, bond protector to Telecommunications grounding system. Refer to Section 27 05 26 Grounding and Bonding for Communications, referenced standards and manufacturer instructions for additional information and requirements.

END OF SECTION