

SECTION 27 11 13  
COMMUNICATIONS ENTRANCE PROTECTION

**Part 1    General**

1.1    Summary

1.1.1    This section specifies the products and installation for entrance protection.

1.2    Related Documents

1.2.1    The latest versions of the following codes, standards, and guidelines shall be followed. Bring to CCS' immediate attention where construction documents or conditions differ from requirements in codes, standards, guidelines and specifications.

1.2.2    The following codes, as required by law:

Ontario Electrical Safety Code (OESC)

Canadian Electrical Code (CEC)

Ontario Building Code (OBC)

1.2.3    The following standards:

1. ANSI/TIA-568-C.0, Generic Telecommunications Cabling for Customer Premises

2. ANSI/TIA-568-C.2, Balanced Twisted-Pair Telecommunications Cabling and Components Standards

3. ANSI/TIA-568-C.4, Broadband Coaxial Cabling and Components Standard

4. ANSI/TIA-569-C

5. TIA-606-B, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

6. ANSI/TIA-758-B

7. ANSI-J-607-A

8. UL 497, 497A, 1449

1.2.4    The following guidelines:

1. BICSI, Telecommunications Distribution Methods Manual (TDMM)

2. BICSI, Information Transport Systems Installation Methods Manual (ITSIMM)

1.2.5    The following project specifications:

1. 27 05 26 Grounding and Bonding for Communications

2. 27 05 53 Identification for Communications Systems

1.3    Quality Assurance

1.3.1    Entrance protection is to be covered by the Contractor's and Manufacturer's System Warranty

1.4    Submittals

1.4.1    The following submittals are due at the Pre-Construction Phase, in accordance with submittal requirements in Section 27 05 00 Communications:

SECTION 27 11 13  
COMMUNICATIONS ENTRANCE PROTECTION

1. Product Information

a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.

2. Shop Drawings

1.4.2 The following submittals are due Post-Construction, in accordance with the submittal requirements in Section 27 05 00:

1. Record Drawings

2. Manufacturer and Maintenance Manuals for all installed equipment.

a) Provide manufacturer's product information cutsheet or specifications sheet with the specific product number identified or filled out.

b) List of bill of materials, including all parts, pieces and connectors required for installation of the cable tray system.

**Part 2 Product**

2.1 General Requirements

.1 Building Entrance Terminal (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.

2.2 Specified Product:

Specified Product:

Description  
Circa

Part No.  
1900-100K

**Part 3 Execution**

3.1 General

3.1.1 Building Entrance Terminals (BET)

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.

SECTION 27 11 13  
COMMUNICATIONS ENTRANCE PROTECTION

C. Install grounding wire as straight as possible from terminal to Telecommunications Main Grounding Busbar (TMGB)/Telecommunications Grounding Busbar (TGB).

3.1.2 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 27 11 13