SECTION 16xxx
LOW VOLTAGE MOUNTING PLATE BRACKETS

PART 1 – GENERAL

1.1 SCOPE

A. For Existing Non-Fire Rated Dry Wall Construction (Nonmetallic Brackets) (2.3A)
B. For Existing Non-Fire Rated Dry Wall Construction (Steel Brackets) (2.3B)
C. For New Non-Fire Rated Dry Wall Construction (2.3C)

1.2 SUMMARY

A. The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the use of low voltage class 2 mounting plates as described in this specification.

1.3 DEFINITIONS

A. ANSI: American National Standards Institute
B. ASTM: American Society for Testing and Materials
C. EIA: Electronic Industries Alliance
D. TIA: Telecommunications Industry Association
E. cULus: Listed by Underwriters Laboratories based on both Canadian and US (United States) standards requirements.

1.4 SUBMITTALS

A. Submit product data on low voltage mounting plates, including attachment methods. Product data to include, but not limited to materials, finishes, approvals, load ratings, and dimensional information.

1.5 QUALITY ASSURANCE

A. Low voltage mounting plate brackets shall be listed by Underwriters Laboratories based on both Canadian and US standards (cULus).
B. Low voltage mounting plate brackets shall have the manufacturer's name and part number on the part for identification.
C. Manufacturer: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience in the industry, and certified ISO 9000.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Subject to compliance with these specifications, low voltage mounting plate brackets shall be as manufactured by ERICO®, Inc or approved equal.

2.2 REFERENCES

A. ASTM B633 Standard Specification for Electro-deposited Coatings of Zinc on Iron and Steel
ASTM B 695-90 Standard Specification for coatings of Zinc Mechanically Deposited on Iron and Steel
ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A924/A924M Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

B. ASTM A109 Standard Specification for Steel, Strip, Carbon, Cold-Rolled
ASTM A568 Standard Specification for Steel, Sheet, Carbon, and High-Strength, Low-Alloy Hot-Rolled and Cold-Rolled
A653 G60-Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-coated (Galvannealed) by the Hot-Dip process
ASTM A682 Standard Specification for Steel, Strip, High-Carbon, Cold-Rolled, Spring Quality
ASTM A879 Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface

C. ASTM B117 Standard Method of Salt Spray (Fog) Testing
ASTM D610 Standard test Method for Evaluating Degree of Rusting on Painted Steel Surfaces

D. ANSI/ TIA/ EIA 568 Commercial Building Telecommunications Cabling Standard, current revision level.

E. ANSI/ TIA/ EIA 569 Commercial Building Standard for Telecommunications Pathways and Spaces, current revision level.

F. NFPA 70 National Electrical Code®

2.3 LOW VOLTAGE (Class 2 only) MOUNTING PLATE BRACKETS

A. For Existing Non-Fire Rated Dry Wall Construction (Nonmetallic Brackets)

1. Nonmetallic Brackets shall accommodate wall thickness of 1/4” through 1-1/4”;cULus Listed.
2. Brackets shall accommodate standard low voltage devices.
3. Special installation tools shall not be required.
4. The brackets shall have smooth edges that cannot damage cables.
5. Brackets can be installed vertically or horizontally.
6. Acceptable products: ERICO CADDY® MP1P (single-gang), MPAL2 (double-gang); MP34P (3- or 4-gang); or approved equal.

B. For Existing Non-Fire Rated Dry Wall Construction (Steel Brackets)

1. Rated for indoor use in non-corrosive environments; cULus Listed
2. Brackets shall accommodate wall thickness of 1/2” through 1-1/4”
3. Brackets shall accommodate standard low voltage devices.
4. Brackets can be installed vertically or horizontally.
5. Acceptable products: ERICO CADDY MPLS (single-gang), MPLS2 (double-gang), MP1 (single-gang), MP2 (double-gang); or approved equal.

C. For New Non-Fire Rated Dry Wall Construction

1. Constructed from steel; rated for indoor use in non-corrosive environments; cULus Listed.
2. Brackets shall accommodate 1/2” and 5/8” dry wall.
3. Brackets shall accommodate metal or wood stud.
4. Brackets shall accommodate standard low voltage devices.
5. Can be installed vertically or horizontally.
6. Brackets shall have bendable tabs for cable tie-off or 3/4" conduit stubbing and side support for rigid installation.
7. Acceptable products: ERICO CADDY MP1S (single-gang) and MP2S (double-gang); or approved equal.

2.4 FINISHES

A. ASTM B633 Standard Specification for Electro-deposited Coatings of Zinc on Iron and Steel
ASTM B 695 Standard Specification for coatings of Zinc Mechanically Deposited on Iron and Steel
ASTM A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A924/A924M Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process

PART 3 - EXECUTION

3.1 INSTALLATION

A. Installation and configuration shall conform to the requirements of the current revision levels of ANSI/ EIA/TIA Standards 568 & 569, NFPA 70 (National Electrical Code), applicable local codes, and to the manufacturer’s installation instructions.

B. Install brackets using techniques, practices, and methods that are consistent with recommendations of manufacturer and local authority having jurisdiction.