

---

## **1 GENERAL**

### **1.1 SHOP DRAWINGS AND PRODUCT DATA**

- .1 Submit shop drawings and product data in accordance with Division 1 and Division 16.
- .2 Show complete cabletray installation details and suspension system including all supports, bends, sections, cross section details with cables, and grounding points.

### **1.2 REFERENCES**

- .1 CAN/CSA C22.2 No.126-M91, Cable Tray Systems.
- .2 EEMACF5-1, Cabletrough Systems and Accessories.

## **2 PRODUCTS**

### **2.1 CABLETRAY**

- .1 Cabletrays and fittings: to EEMAC F5-1-1977.
- .2 Ladder type, Class C1 to CSA C22.2 No. 126-M1980.
- .3 Galvanized steel tray with depth of 75 mm.
- .4 Horizontal elbows, end plates, drop outs, vertical risers and drops, tees, wyes, expansion joints and reducers where required. Fittings: manufactured accessories for cabletray supplied. Radii on fittings: 300 mm minimum.
- .5 Barriers where different voltage systems are in the same cabletray.

### **2.2 SUPPORTS**

- .1 Provide supports as required.

## **3 EXECUTION**

### **3.1 INSTALLATION**

- .1 Install complete cabletray system.
- .2 Support cable tray on both sides.
- .3 Remove sharp burrs or projections to prevent damage to cables or injury to personnel.
- .4 All cable trays are shown diagrammatically on the drawings. Determine the exact location in the field. Install cable tray runs to prevent interference with process, service piping and mechanical related to HVAC and to maintain clearance for tray access. Coordinate the exact location of tray supports and runs with the work of other Divisions.

### **3.2 CABLES IN CABLETRAY**

- .1 Install cables individually.
- .2 Lay cables into cabletray. Use rollers when necessary to pull cables.
- .3 Secure cables in cabletray at 6m centres, with nylons ties.
- .4 Identify cables every 30 m with size 2 nameplates in accordance with Section 16010 – Electrical General Requirements.
- .5 Cables installed in cable tray, shall have an air space between conductors, or cables maintained at greater than 100% of the largest adjacent conductor or cable diameter. Comply with the OESC to maintain cables at full rating.

**END OF SECTION**