

**Part 1            General****1.1               RELATED SECTIONS**

- .1        Section 01 00 10 – General Instructions.
- .2        Section 26 05 00 - Common Work Results for Electrical.

**1.2               REFERENCES**

- .1        Canadian Standards Association, (CSA International)
- .2        Insulated Cable Engineers Association, Inc. (ICEA)

**1.3               WASTE MANAGEMENT AND DISPOSAL**

- .1        Separate and recycle waste materials in accordance with Section 01 00 10 – General Instructions.
- .2        Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3        Collect and separate for disposal all packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4        Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Departmental Representative.
- .5        Do not dispose of preservative treated wood through incineration.
- .6        Do not dispose of preservative treated wood with other materials destined for recycling or reuse
- .7        Fold up metal banding, flatten and place in designated area for recycling.

**Part 2            Products****2.1               NOT USED**

- .1        Not Used.

**Part 3            Execution****3.1               CABLE INSTALLATION IN DUCTS**

- .1        Install cables as indicated in ducts.
  - .1        Do not pull spliced cables inside ducts.
- .2        Install multiple cables in duct simultaneously.

- .3 Use CSA approved lubricants of type compatible with cable jacket to reduce pulling tension.
- .4 To facilitate matching of colour coded multi-conductor control cables reel off in same direction during installation.
- .5 Before pulling cable into ducts and until cables are properly terminated, seal ends of lead covered cables with wiping solder; seal ends of non-leaded cables with moisture seal tape.
- .6 After installation of cables, seal duct ends with duct sealing compound.

### **3.2 FIELD QUALITY CONTROL**

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.
- .2 Perform tests using qualified personnel. Provide necessary instruments and equipment.
- .3 Check phase rotation and identify each phase conductor of each feeder.
- .4 Check each feeder for continuity, short circuits and grounds. Ensure resistance to ground of circuits is not less than 50 megohms.
- .5 Acceptance tests.
  - .1 After installing cable but before splicing and terminating, perform insulation resistance test with 1000 V megger on each phase conductor.
  - .2 Check insulation resistance after each splice and/or termination.
- .6 Provide Departmental Representative with list of test results showing location at which each test was made, circuit tested and result of each test. Include test data on verification sheets.
- .7 Remove and replace entire length of cable if cable fails to meet any of test criteria.

**END OF SECTION**