

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Section 26 05 00 – Common Work Results – Electrical.

1.2 REFERENCES

- .1 Unless otherwise indicated, all the works must be done in accordance with the latest edition of the Quebec Construction Code (QCC).
- .2 Furthermore, works must be carried out in accordance with any other code or standard having jurisdiction, as per the latest edition, including, but not limited to:
 - .1 Canadian Standards Association (CSA) / CSA International.
 - .1 CAN/CSA-C22.2 No. 18, Outlet Boxes, Conduit Boxes and Fittings.
 - .2 CSA C22.2 No. 41, Grounding and Bonding Equipment.
 - .3 CSA C22.2 No. 65, Wire Connectors.
 - .2 Electrical and Electronic Manufacturers' Association of Canada (EEMAC).
 - .1 EEMAC 1Y-2, Bushing Stud Connectors and Aluminum Adapters (1200 Ampere Maximum Rating).
 - .3 National Electrical Manufacturers Association (NEMA).

1.3 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling in accordance with Section 21 00 00/26 00 00 – Specific Conditions – Mechanical/Electrical.
- .2 Remove all packaging material from work site and divert to appropriate recycling facility.
- .3 Collect and separate packaging material for disposal in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused metal materials to metal recycling facility as approved by Engineer.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Pressure type wire connectors to: CAN/CSA-C22.2 No.65, with current carrying parts of copper, sized to fit copper conductors as required.
- .2 Fixture type splicing connectors with current carrying parts of copper, sized to fit copper conductors 10 AWG or less.
- .3 Bushing stud connectors to consist of:
 - .1 Connector body and stud clamp for round copper conductors;
 - .2 Clamp for stranded copper conductors;
 - .3 Stud clamp bolts;
 - .4 Bolts for copper conductors;
 - .5 Sized for conductors as indicated on plans.
- .4 Clamps or connectors for armoured cable.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Remove insulation carefully from ends of conductors and:
 - .1 Apply coat of zinc joint compound on aluminum conductors prior to installation of connectors.
 - .2 Install mechanical pressure type connectors and tighten screws with appropriate compression tool recommended by manufacturer. Installation to meet secureness tests in accordance with CAN/CSA-C22.2 No. 65.
 - .3 Install fixture type connectors and tighten. Replace insulating cap.
 - .4 Install bushing stud connectors in accordance with EEMAC 1Y-2 and applicable NEMA standards.
 - .5 Install stress cones and terminations, and splice according to manufacturer instructions.
 - .6 Where required, bond and ground to CSA C22.2 No. 41.

END OF SECTION