

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 01 00 10 – General Instructions.
- .2 Section 26 05 00 – Common Work Results for Electrical.
- .3 Section 26 05 21 – Wires and Cables (0-1000 V).
- .4 Section 26 05 32 – Outlet Boxes, conduit Boxes and Fittings.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-C22.2 No.18-98 (R2003), Outlet Boxes, Conduit Boxes, Fittings and Associated Hardware.
 - .2 CSA C22.2 No.65-13, Wire Connectors.
- .2 Electrical and Electronic Manufacturers' Association of Canada (EEMAC)
 - .1 EEMAC 1Y-2, 1961 Bushing Stud Connectors and Aluminum Adapters (1200 Ampere Maximum Rating).
- .3 National Electrical Manufacturers Association (NEMA)

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 paper, plastic, polystyrene, corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused wiring materials from landfill to metal recycling facility as approved by the Departmental Representative.

Part 2 Products**2.1 MATERIALS**

- .1 Pressure type wire connectors to: CSA C22.2 No.65, with current carrying parts of copper alloy sized to fit copper conductors as required.
- .2 Copper long barrel compression connector as required by conductor size.
- .3 Bushing stud connectors: to EEMAC 1Y-2 to consist of:
 - .1 Connector body and stud clamp for stranded round copper conductors.

- .2 Clamp for stranded round copper conductors.
- .3 Stud clamp bolts.
- .4 Bolts for copper conductors.
- .4 Insulation (tubing, boots and end caps)
 - .1 Heat shrink insulators:
 - .1 Moisture proof
 - .2 Thermally stabilized cross-linked polyolefin
 - .3 Self-sealing adhesive insulator with 3 to 1 expansion
 - .4 Rated 1000 V, 90°C.
 - .5 Clamps or connectors for armoured cable, flexible conduit as required to: CSA-C22.2 No.18.

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 shall meet secureness tests in accordance with CSA C22.2 No.65.
 - .3 Install bushing stud connectors in accordance with EEMAC 1Y-2.

END OF SECTION