

PART 1 - GENERAL

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| <u>1.1 Section Includes</u> | .1 | Materials and installation for wire and box connectors. |
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| <u>1.2 Related Sections</u> | .1 | Section 01 74 21 - Construction/Demolition Waste Management And disposal. |
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| <u>1.3 References</u> | .1 | Canadian Standards Association (CSA International) |
| | .1 | CAN/CSA-C22.2 No.18-98, Outlet Boxes, Conduit Boxes, Fittings and Associated Hardware. |
| | .2 | CSA C22.2 No.65-93(R1999), 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) |
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| <u>1.4 Waste Management and Disposal</u> | .1 | Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal. |
| | .2 | Remove from site and dispose of all packaging materials at appropriate recycling facilities. |
| | .3 | Collect and separate for disposal paper, plastic, polystyrene and 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 Engineer. |
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PART 2 - PRODUCTS

- 2.1 Materials .1 Pressure type wire connectors to: CSA C22.2 No.65, with current carrying parts of copper sized to fit copper conductors as required.
- .2 Fixture type splicing connectors to: CSA C22.2 No.65, with current carrying parts of copper sized to fit copper conductors 10 AWG or less.
- .3 Bushing stud connectors: to EEMAC 1Y-2 to suit conductor.
- .4 Clamps or connectors for armoured cable and flexible conduit as required to: CAN/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 fixture type connectors and tighten. Replace insulating cap.
- .4 Install bushing stud connectors in accordance with EEMAC 1Y-2.
- .5 Install crimp type connectors with snap-on nylon caps on splices and joints in branch circuits.