

Part 1 General

1.1 REFERENCES

- .1 CSA C22.2 No .0.3, Test Methods for Electrical Wires and Cables.
- .2 CAN/CSA-C22.2 No. 38, Thermoset-Insulated Wires and Cables.

1.2 SUBMITTALS

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

Part 2 Products

2.1 INSULATED GROUND CONDUCTORS

- .1 Wire: to CAN/CSA-C22.2 No. 38
- .2 Copper conductors:
 - .1 Size: 4/0 AWG except as indicated
 - .2 Type: stranded
 - .3 Insulation: chemically cross-linked thermosetting polyethylene material rated RW90
 - .4 Flame Test Rating: CSA FT4 (if exposed)
CSA FT1 (if entirely within conduit)
 - .5 Insulation Voltage Rating: 600V
 - .6 Colour: Green

2.2 BARE GROUND CONDUCTORS

- .1 Copper conductors:
 - .1 Size: 4/0 AWG except as indicated
 - .2 Type: stranded

Part 3 Execution

3.1 INSTALLATION

- .1 Do not splice cables except as shown on the drawings. A continuous length is required for all runs, except as shown on the drawings or as approved by the Contract Administrator.
 - .1 The conductor from the Grit Electrical Room to the conduit chase in the Oxygen Reactors Building may be split into three spliced conductor lengths.**
- .2 Install in accordance with manufacturer's recommendations, observing requirements for minimum bending radius and pulling tensions.
- .3 Ground conductors installed indoors shall be insulated RW90 except as noted.
- .4 Ground conductors not installed in cable tray shall be run in 27mm conduit mounted to walls or ceiling.

END OF SECTION