

## **PART 1 - GENERAL**

### **1.1 References**

- .1 CSA C22.2 No. 0.2 Test Methods for Electrical Wires and cables.
- .2 CAN/CSA C22.2 No. 131, Type Teck 90 Cable.

## **PART 2 - PRODUCTS**

### **2.1 Wiring**

- .1 Use copper for all wiring.
- .2 Minimum wire size minimum #12 AWG AC90 with 600 Volt insulation unless otherwise specified or a heavier gauge as required for application.
- .3 Armoured Cables BX.
  - .1 Copper conductors with RW90. Cross-link polyethylene insulated for 600 volts, rated not less than 90°C, and bare copper grounding conductor wrapped with bare interlocked aluminum armor.
  - .2 All conductors #12 AWG or larger shall be stranded, Type RW90, cross-link polyethylene insulated for 1000 volts and rated for not less than 90°C.
  - .3 Use armoured cable (BX) for lighting tails (maximum 3 m).
- .4 Control Cables.
  - .1 Single conductor wire to be 98% conductivity copper type TEW or TBS insulation rated at 600 V, solid or stranded conductor as required, size as specified herein, 90°C insulation and manufactured to CSA Specification C22.2, No. 38.
  - .2 Cable for power and control shall be based on Teck 90 armoured cable, with stranded copper conductors, 90°C insulation, rated at 600 V ac, manufactured to CSA Specification C22.2, No. 131, integral copper ground wire, PVC inner jacket, aluminum interlocking armour, and PVC outer jacket having heat, flame, and moisture retardant properties. Flame retardancy of outer jacket to be rated in accordance with CSA Standard C22.2, No. 0.3.
- .5 Use Teck 90 armoured cable for end connections at motors.
  - .1 CSA FT-4.
  - .2 CSA C22.2 No. 131.

## **PART 3 - EXECUTION**

### **3.1 Installation**

- .1 Support conductors at intervals not exceeding 1.5m. Where cables are run in close proximity to each other, they shall be grouped and installed in a neat and workman-like manner. Tie wire or perforated strap will not be accepted.
- .2 All exposed wiring shall be in conduit with appropriate fittings.