

PART 1 - GENERAL

- 1.1 SUBMITTALS .1 Submit shop drawings, and product data in accordance with Division 01 specifications.
- 1.2 RELATED SECTIONS .1 Conduits, Conduit Fastenings and Conduit Fittings: Section 26 05 34
- .2 Wire and Box Connectors (0 - 1000V): Section 26 05 20
- 1.3 REFERENCES .1 CSA C22.1-12, Canadian Electrical Code.

PART 2 - PRODUCTS

- 2.1 BUILDING WIRES .1 Conductors: soft drawn, stranded, copper(of 98% conductivity). Minimum size #12 AWG.
- .2 Copper conductors: size as indicated, with 600 V insulation of chemically cross-linked thermosetting polyethylene material rated RW90-XLPE.
- .3 Wiring to be colour coded in accordance with the Canadian Electrical Code.
- 2.2 TECK 90 CABLE .1 Use TECK cable for 600V and 120/208V only where specified on the drawings.
- .2 Conductors:
- .1 Grounding conductor: stranded copper.
- .2 Circuit conductors: stranded copper, size as indicated.
- .3 Insulation:
- .1 Chemically cross-linked thermosetting polyethylene rated type RW90, 1000V.
- .4 Inner jacket: polyvinyl chloride material.
- .5 Armour: interlocking aluminum.
- .6 Overall covering: Polyvinyl chloride (PVC), heat, flame and moisture resistant material.

- 2.2 TECK 90 CABLE (Cont'd) .7 Connectors:
.1 Thomas & Betts Star TECK aluminum connectors or Crouse-Hinds or Appleton approved equivalent complete with aluminum locknut.

PART 3 - EXECUTION

- 3.1 INSTALLATION OF BUILDING WIRES .1 Install wiring as follows:
.1 In conduit systems in accordance with Section 26 05 34.

- 3.2 INSTALLATION OF TECK 90 CABLE .1 Install cables only where noted on drawings and herein.
.2 Group cables wherever possible on surface mounted channels.
.3 Terminate cables and provide connectors as required.
.4 Install in accordance with clause 3.4 - Installation of Cables: General.
.5 On walls, secure TECK 90 cable to surface mounted u-shaped supports.
.6 Do not secure cables directly to ductwork, mechanical piping or process piping.

- 3.3 INSTALLATION OF CABLES: GENERAL .1 Cables to be supported independently of supports used for equipment of other trades; do not support from or secure cables to ductwork and piping.
.2 Install cables in a neat and professional manner, so as to conserve headroom.
.3 Install cables parallel and perpendicular to building lines.
.4 In wet/damp areas and outdoors, cables shall enter into the bottom of the equipment.
.5 Stranded conductors are to be "twisted together" at each termination.

3.3 INSTALLATION
OF CABLES: GENERAL
(Cont'd)

- .6 Ty-rap branch circuit phase conductors and neutral
(where applicable) at the closest point of entry
within all panelboards, pullboxes, junction boxes,
motor control centres and switchboards.