

**Part 1            General**

**1.1                RELATED SECTIONS**

- .1        Section 26 05 20 - Wire and Box Connectors.
- .2        Section 26 05 34 - Conduits, Conduit Fastening and Conduit Fittings

**Part 2            PRODUCTS**

**2.1                BUILDING WIRES**

- .1        Conductors: stranded for 10 AWG and larger. Minimum size 12 AWG, except as noted.
- .2        Copper conductors: size as indicated, with 600V insulation oil and gas resistant, nylon, TWN75, THHN and THWN only.

**2.2                TECK CABLE**

- .1        Above grade only.
- .2        Cable: to CAN/CSA-C22.2 No. 131.
- .3        Conductors:
  - .1        Grounding conductor: copper.
  - .2        Circuit conductors: copper, size as indicated.
- .4        Insulation:
  - .1        Chemically cross-linked thermosetting polyethylene rated type RW90, 600 V.
- .5        Inner jacket: polyvinyl chloride material.
- .6        Armour: interlocking aluminum.
- .7        Overall covering: polyvinyl chloride material.
- .8        Fastenings:
  - .1        One hole malleable steel straps to secure surface cables 50 mm and smaller. Two hole steel straps for cables larger than 50 mm.
- .9        Connectors:
  - .1        Watertight, explosion-proof approved for TECK cable.
- .10      Coating (inside dispenser sump):
  - .1        Petroleum resistant, shrink jacket.

**2.3                CONTROL/ COMMUNICATIONS CABLES**

- .1        Cables to have oil and gas resistant insulation.
- .2        For 4 #18SH cable use Belden #89418 or equal.

- .3 For 9/C #22SH cable use Belden #83559 or equal.

**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 – Conduits, Conduit Fastenings and Conduit Fittings.

**3.2 INSTALLATION OF TECK CABLE**

- .1 Install cables.
- .2 Terminate cables in accordance with Section 26 05 20 - Wire and Box Connectors.

**3.3 INSTALLATION OF CONTROL / COMMUNICATIONS CABLES**

- .1 Install control/communications cables in conduit.
- .2 Ground control/communications cable shield, or tape off shield as indicated so as not to be in contact with grounded metal.

**3.4 TESTING**

- .1 Perform test to all wire and cables in accordance with applicable federal, provincial and municipal requirements.

**END OF SECTION**