

PART 1 - GENERAL

- 1.1 Related Sections
- .1 Section 26 05 20 - Wire and Box Connectors - 0 - 1000 V.
 - .2 Refer to drawings for wiring type required under different applications.
- 1.2 References
- .1 CSA C22.2 No .0.3, Test Methods for Electrical Wires and Cables.
 - .2 CAN/CSA-C22.2 No. 131, Type TECK 90 Cable.

PART 2 - PRODUCTS

- 2.1 Building Wires
- .1 Conductors: stranded for 10 AWG and larger. Minimum size: 12 AWG.
 - .2 Copper and ACM alloy conductors: size as indicated, with 600 V insulation of cross-linked thermosetting polyethylene material rated RW90 XLPE and RWU90 XLPE as indicated. Provide RWU90 XLPE rated cable for underground wiring. Related to new service entrance feeders and site lighting circuits. RWU90 XLPE not required under interior floor slabs.
 - .3 Copper conductors: size as indicated, with thermoplastic insulation type TWH rated at 600 V, typically used for insulated ground wires.

- 2.2 TECK Cable
- .1 Cable: to CAN/CSA-C22.2 No. 131.
 - .2 Conductors:
 - .1 Grounding conductor: copper.
 - .2 Circuit conductors: copper, size as indicated.
 - .3 Insulation:
 - .1 Cross-linked polyethylene XLPE rating-600V.
 - .4 Inner jacket: polyvinyl chloride material.
 - .5 Armour: interlocking aluminum, compliant to applicable Building Code Classification for this project.
 - .6 Overall covering: thermoplastic polyvinyl chloride material.
 - .7 Fastenings:
 - .1 One hole steel straps to secure surface cables 50 mm and smaller. Two hole steel straps for cables larger than 50 mm.
 - .2 Channel type supports for two or more cables at 1500 mm centers.
 - .3 Threaded rods: 6 mm dia. to support suspended channels.
 - .8 Connectors:
 - .1 Watertight and/or type approved for TECK cable, as indicated.

- 2.3 Armoured Cables
- .1 Conductors: insulated, copper, size as indicated.
 - .2 Type: AC90.

- .3 Armour: interlocking type fabricated from aluminum strip.
- .4 Connectors: standard as required, complete with double split rings.

2.4 Control Cables

- .1 Type LVT: 2 soft annealed copper conductors, sized as indicated, with thermoplastic insulation, outer covering of thermoplastic jacket. Low energy 300 V control cable: stranded annealed copper conductors sized as indicated, with PVC insulation type TW-40EC polyethylene insulation with shielding of tape coated with paramagnetic material wire braid over each conductor and overall covering of PVC jacket.

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, Fastenings and Fittings.
 - .2 In underground ducts in accordance with Section 26 05 43.01- Installation of Cables in Ducts.
 - .3 In trenches in accordance with Section 26 05 43.01- Installation of Cables in Trenches.

3.2 Installation of TECK Cable 0 -1000 V

- .1 Install cables.
- .2 Group cables wherever possible on channels.
- .3 Install cable concealed, securely supported by

straps and hangers.

- 3.3 Installation of Armoured Cables (AC-90)
- .1 Group cables wherever possible.
 - .2 Use permitted only for work in movable partitions and vertical power supply drops to lighting fixtures.
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- 3.4 Installation of Control Cables
- .1 Install control cables in conduit as indicated.
 - .2 Ground control cable shield.