

PART 1 - GENERAL

- 1.1 DELIVERY,
STORAGE AND
HANDLING
- .1 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

PART 2 - PRODUCTS

- 2.1 BUILDING WIRES
- .1 Conductors: stranded for 8 AWG and larger. Minimum size: 12 AWG. All conductors to be 100% copper.
 - .2 Copper conductors: size as indicated, with 600 V insulation of cross-linked thermosetting polyethylene material rated RW90 XLPE and RWU90 XLPE.
- 2.2 TECK 90 CABLE
- .1 Cable: in accordance with Section 26 05 00 - Common Work Results for Electrical.
 - .2 Conductors:
 - .1 Grounding conductor: copper.
 - .2 Circuit conductors: copper, size as indicated.
 - .3 Insulation:
 - .1 Cross-linked polyethylene XLPE.
 - .2 Rating: 600 V.
 - .4 Inner jacket: polyvinyl chloride material.
 - .5 Armour: interlocking aluminum.
 - .6 Overall covering: thermoplastic polyvinyl chloride,
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- 2.2 TECK 90 CABLE .7 Fastenings:
(Cont'd)
- .1 One hole aluminum straps to secure surface cables 53 mm and smaller. Two hole steel straps for cables larger than 53 mm.
 - .2 Channel type supports for two or more cables at 1200 mm centers.
 - .3 Threaded rods: 6 mm diameter to support suspended channels.
- .8 Connectors:
.1 Watertight, approved for TECK cable.
- 2.3 ARMOURED CABLES .1 Conductors: insulated, copper, size as indicated.
- .2 Type: AC90.
 - .3 Armour: interlocking type fabricated from galvanized steel strip.
 - .4 Connectors: anti short connectors.
- 2.4 CONTROL CABLES .1 Type: LVT: 2 soft annealed copper conductors, sized as indicated:
.1 Insulation: thermoplastic.
.2 Sheath : thermoplastic jacket.
- .2 Type: low energy 300 V control cable: stranded annealed copper conductors sized as indicated LVT.
.1 Insulation: PVC TW 40 degrees C TWH.
.2 Shielding: tape coated with paramagnetic material over conductors.
.3 Overall covering: PVC jackets.
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PART 3 - EXECUTION

- 3.1 FIELD QUALITY CONTROL
- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.
 - .2 Perform tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation.
 - .3 Perform tests before energizing electrical system.
- 3.2 GENERAL CABLE INSTALLATION
- .1 Cable Colour Coding: to Section 26 05 00 - Common Work Results for Electrical.
 - .2 Wiring in walls: typically drop or loop vertically from above to better facilitate future renovations. Generally wiring from below and horizontal wiring in walls to be avoided unless indicated.
 - .3 Provide numbered wire collars for control wiring. Numbers to correspond to control shop drawing legend. Obtain wiring diagram for control wiring.
- 3.3 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.
- 3.4 INSTALLATION OF TECK90 CABLE (0-1000 V)
- .1 Group cables wherever possible on channels.
 - .2 Install cable exposed, securely supported by straps.
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3.5 INSTALLATION OF .1 Group cables wherever possible on channels.
ARMOURED CABLES

3.6 INSTALLATION OF .1 Install control cables in conduit.
CONTROL CABLES .2 Ground control cable shield.