

PART 1 - GENERAL

PART 2 - PRODUCTS

- 2.1 Equipment
- .1 System and circuit, equipment, grounding conductors, bare stranded copper, un-tinned, soft annealed, size as indicated.
  - .2 Insulated grounding conductors: green, type RW 90.
  - .3 Non-corroding accessories necessary for grounding system, type, size, material as indicated, including but not necessarily limited to:
    - .1 Grounding and bonding bushings.
    - .2 Protective type clamps.
    - .3 Bolted type conductor connectors.
    - .4 Thermit welded type conductor connectors.
    - .5 Bonding jumpers, straps.
    - .6 Pressure wire connectors.

PART 3 - EXECUTION

- 3.1 Installation General
- .1 Install complete permanent, continuous, system and circuit, equipment, grounding systems including, electrodes, conductors, connectors, accessories, as indicated, to conform to requirements of Departmental Representative, and local authority having jurisdiction over installation. Where EMT is used, run separate ground wire in conduit.
  - .2 Install connectors in accordance with manufacturer's instructions.
  - .3 Protect exposed grounding conductors from mechanical injury.
  - .4 Use mechanical connectors for grounding connections to equipment provided with lugs.
  - .5 Soldered joints not permitted.

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- 3.1 Installation .6 Install an integral bonding wire in all  
General flexible conduit, connected at both ends to  
(Cont'd) grounding bushing, solderless lug, clamp or  
cup washer and screw.
- .7 Make connections to ground bar(s) and to  
ground bus in service board as shown on  
drawings.
- 3.2 System and .1 Install system and circuit grounding  
Circuit Grounding connections to neutrals of the secondary  
600/347 V and 120/208 V systems.
- 3.3 Equipment .1 Install grounding connections to typical  
Grounding equipment included in, but not necessarily  
limited to following list. Service equipment,  
transformers, switchgear, distribution panels  
and outdoor lighting.
- 3.4 Field Quality .1 Perform tests in accordance with Common Works  
Control Results Electrical section.
- .2 Perform ground continuity and resistance  
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.