## **Electric Requirements for Above Ground Residential Pools**

- 1. No direct burial cable permitted. Metal or PVC conduit system is required outside the dwelling unit.
- 2. Minimum filter motor attachment cord size #12 AWG.
- 3. Minimum ground wire size #12 AWG.
- 4. 20 Ampere locking type receptacle required for filter motor for above ground pools

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located at a minimum of 6 feet from pool wall. This receptacle shall be ground fault protected and shall employ an "In-Use" cover. This circuit shall be dedicated to the filter motor and shall have no other devices connected.

- 5. A convenience receptacle shall be located between 6 feet and 20 feet from the pool wall, shall be ground fault protected and may be connected to a routine circuit in the dwelling.
- 6. All metal parts within 5' of the pool (fences, Bilco doors lamp posts etc.) must be included within the bonding grid described in #11 of this handout.
- 7. The filter motor may be "hard wired" but a disconnecting means is required and with-in sight of filter. Ground fault protection is required.
- 8. Burial Depth is routinely 18" for conduit.
- 9. Unless a pool light is present, any approved wiring method within the dwelling is approved for use as the feeder to the pool equipment

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but must be changed over to conduit once this wiring leaves the dwelling unit. If a pool light is installed, a conduit system is required from the service panel board and a green insulated ground wire is required to be installed in the conduit with the circuit conductors, typically black, white, & green THWN. Cable is not permitted to be installed in the conduit.

- 10. All wiring installed in a common conduit system must either be Ground Fault protected or not. Do not internix these two types of wiring protection.
- 11. A # 8 solid copper bare wire is required to be installed to follow the entire circumference of the pool, at a depth of 4 to 6 inches below finished grade, at a distance of 18 to 24 inches from the inside wall of the pool. This bond wire must attach to the pool frame at 4 equidistant points using a direct burial lug fastened to the frame with either a galvanized or stainless steel nut and bolt. This bond wire must also pass through the lug provided by the manufacturer on the pool filter pump motor.
- 12. Bond pool water as per NEC Article 680.26(C).
- 13. For pools refer to the National Electrical Code
- 14. Need to install a timer on the pool motor.