

Du Page County
Basic Above Ground Pool Electrical Requirements Based
on NEC 2014 Edition Article 680

1. Listed swimming pool pump motor with minimum 1 2/3 AWG cord not longer than thirty-six (36) inches in length
2. Receptacles on property shall be located a minimum of ten (10) feet from inside walls of pool. All receptacles within twenty (20) feet shall be GFCI protected.
 - a. A GFCI protected receptacle of a single twist lock type would be permitted between six (6) to ten (10) feet from inside wall of pool for pump use only.
 - b. A GFCI protected convenience receptacle shall be located a minimum of ten (10) feet and not more than twenty (20) feet from inside walls of pool.
 - c. Boxes shall be supported and not rely on raceway pipes alone unless as at 2b below.
3. Listed wet location "In-Use" covers for all receptacles.
4. UNDERGROUND RACEWAYS.
 - a. Intermediate metal conduit or rigid metal conduit, six (6) inch minimum burial below grade.
 - b. Rigid non-metallic conduit, Schedule 80, eighteen (18) inch minimum burial below grade with rigid or IMC elbows.
5. Branch circuit conductors shall be 20 amp rated, minimum, but sized to meet the equipment requirements.
 - a. An insulated copper equipment grounding conductor, green in color, shall be installed in any wiring method used, minimum size 12 AWG or as required by Table 250.122.
6. A solid 8 AWG copper equipotential bonding conductor to connect all pool equipment and all metal surfaces located within five (5) feet horizontally of inside walls of pool.
 - a. Equipotential bonding connectors or "Lugs" to be suitable for the purpose and of stainless steel, brass, copper or copper alloy.
 - b. Perimeter surface bonding conductor (#8 SOLID COPPER) eighteen inches (18") to twenty-four inches (24") from inside wall of pool, four inches (4") to six inches (6") below subgrade following contour of the pool.
7. Circuit breakers to match panel manufacturer.
8. Extension cords are not permitted.
9. Optional pool light; power will be from general convenience receptacle, ten (10) feet or more from inside walls of pool; listed for application with GFCI protection,
10. Optional natural gas pool water heater; gas line will be polyethylene yellow in color with a yellow size 12 AWG tracer wire, minimum of eighteen (18) inches below grade . All gas piping above grade shall be rigid steel piping with coatings to protect it from the elements. Steel piping shall transition to polyethylene one (1) foot below grade.

