

ELECTRICAL WIRING REQUIREMENTS FOR SWIMMING POOLS

Based on the 2002 National Electrical Code / 2007 Residential Code of New York State

THIS IS THE ELECTRICAL REQUIREMENTS FOR ALL SWIMMING POOLS AND WADING POOLS THAT ARE INGROUND OR PARTIALLY IN THE GROUND, AND ALL OTHERS CAPABLE OF HOLDING WATER WITH A DEPTH GREATER THAN 42 INCHES

1) Pool Pump Receptacle (Outlet) and Wiring Method

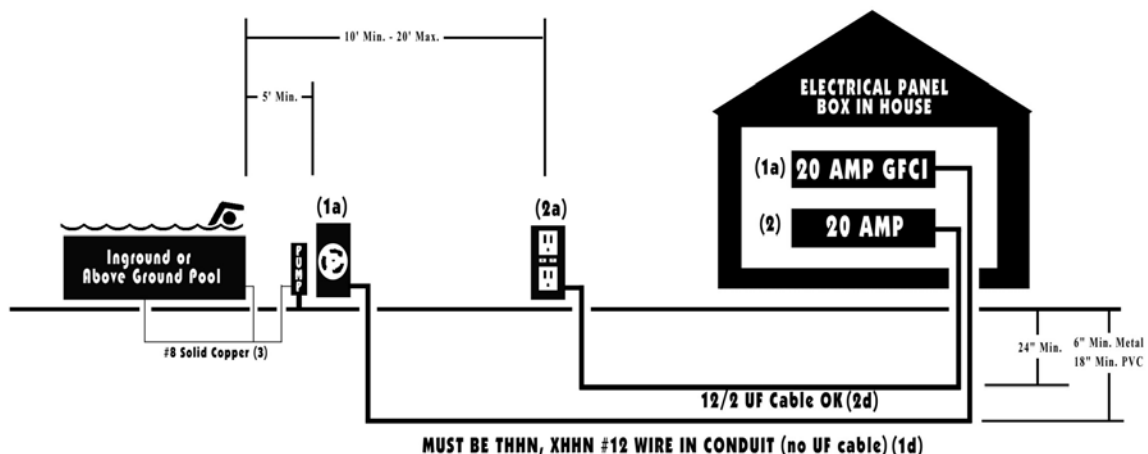
- a. If a pump motor receptacle is located between 5' – 10' from the outside pool wall, the receptacle must be a single, twist-lock, 20 amp, Ground Fault Circuit Interrupter (GFCI) protected receptacle.
 - b. The receptacle must have an in-use weatherproof cover that can be closed when the cord is plugged in.
 - c. The circuit line for the pump motor must be a continuous line going directly to the panel box, and is to be isolated from all other receptacles.
 - d. Wire for the pump motor shall not be less than #12 AWG insulated copper grounded wire, and if buried, must be in conduit. (except when entering a building the wire can change) (Cannot use UF Cable for the pool pump receptacle if the wire is buried)
 - e. Conduit
 - i. PVC – All PVC conduit must be buried at least 18" deep*
 - ii. Metal – All Rigid Metal Conduit must be at least 6" deep*
- * Wires used in conduit must be single strand wires (ex: THHN, XHHN, etc) NO UF CABLE

2) Convenience Receptacle (Outlet)

- a. At least one (1) convenience receptacle must be located not closer than 10' but not further than 20' from the outside pool wall
 - b. Convenience receptacle must be GFCI protected.
 - c. Must have an in-use weatherproof cover where exposed to the weather
 - d. Must be separate from the pool pump outlet wiring.
 - e. Wiring
 - i. UF cable if buried must be at least 24" deep
 - ii. PVC – All PVC conduit must be buried at least 18" deep*
 - iii. Metal – All Rigid Metal Conduit must be at least 6" deep*
- Wires used in conduit must be single strand wires (ex: THHN, XHHN, etc) NO UF CABLE

3) Bonding The Pool

- a. All metal parts must be bonded together using a #8 (or larger) solid copper wire.
- b. Must use non-corrosive clamps.
- c. Recommend bonding in two (2) spots going half way around the pool.



PLEASE CONTACT YOUR LOCAL INSPECTOR IF YOU HAVE ANY QUESTIONS

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