

This covers most pools
ELECTRICAL CODE RULES BASED ON 2008 N.F.P.A -70
THE RESIDENTIAL CODE OF New York STATE 2010
ALL IN-GROUND POOLS AND ABOVE GROUND POOLS CAPABLE OF HOLDING 42" OR
MORE OF WATER ARE CONSIDERED PERMANETLY INSTALLED POOLS

1. Wiring for pump motor shall not have less than **# 12 AWG insulated copper grounding** wire, and to be in conduit, except when entering building can change to NM cable **680.21(A) (1-4)** If using 15 amp breaker may be 14 gauge wire for hot and neutral but ground must be #12.
2. If the pump motor receptacle is located **from 6' to 10'** from outside pool wall. The receptacle must be **single, twistlock, 15 or 20amp, GFCI protected with watertight inuse cover.** **680.22(A)(1)(1-4)**
3. Pump motor cord **shall not exceed 3'** and shall have a grounding wire of not smaller than **# 12 AWG** copper. **680.7**
4. Circuit line for pump motor shall be a continuous circuit going directly to panel box and **shall have no other receptacles.** **430-22(A)** All pumps and heaters must have a timer controlled power circuit. (Energy Code)
5. A receptacle used unattended in a wet location shall have a **watertight inuse cover.** **406.8 (B)(1)**
6. All underground UF wire and PVC conduits must be 18" deep, unless circuit is protected by GFCI upstream then 12" deep. **300.5** Only electric specific to the pool is allowed less than 5" feet to the water's edge and must be **18" deep** and be installed in a approved raceway. **680.10**
7. At least one convenience **receptacle must be located between 6 and 20** feet from the waters edge and must be GFCI protected. Existing outlets between 6 and 20 feet shall be GFCI protected. **680.22(A)(1-5)** This can be wired with any approved wiring method.
8. All metal parts must be **bonded together with a No. 8 or** larger solid copper wire must be used. (Motor, ladders pool frame, diving board, lights, etc.) **680-22 / E4104.1**
9. **A minimum** of 9 square inches of metal must be in contact with the water to bond water.
10. **PERIMETER EQUIPOTENTIAL BONDING** all pools with shall have #8 CU 18-24 inches out 4-6 inches deep if no concrete with wire or mesh in it. **680.26 (B) (2)** this wire must circle pool.
11. When bonding pool frame or any metal parts to main bonding wires or wire mesh, you must use listed **non-corrosion clamps.** **680-22(A)(B) / E4104.1** Both #11 and #12 attach to motor lug.
12. For in pool lights ask for separate light regulation sheet.
13. For any lighting fixtures outside of pool. **680-6 (b) (1) (2) (3) / E4103.4.3**

NOTE: A building permit is required in **ALL** localities, secure permits **before starting.**
Pool alarms required on all new pools.

Pool Pre-inspection check list 2012

Complete / review this list before calling for an inspection.

1. ___ Have building permit available we may need permit number and or may have to sign permit. Varies with local municipality.
2. Pool pump: ___ Twist lock plug for pool pump if between 6 and 10 feet from waters edge. ___ Water tight bubble cover. ___ Pump cord 12 gauge wire no longer than 3 feet with water tight connector at pump.
3. ___ Convenience receptacle located between 6 and 20 feet. GFCI protected with bubble style cover.
4. ___ Ditch open in a few spots ___ 12 inches deep if GFCI protected wires. ___ 18 inches if not. ___ PVC conduit with 3 THHN-THWN conductors (Black, White, Green) Green must be #12 AWG wire for pool pump. ___ UF wire ok for Convenience receptacle.
5. ___ All metal parts bonded to pump with #8 solid CU wire.
_____ If no metal parts. Is water bonded by 9 sq in. of metal?
6. ___ Perimeter equipotential bonding all pools #8 solid CU 18 -24 inches from pool edge 4-6 inches deep and bonded to pool pump lug.
7. ___ All existing receptacles within 20 feet of pool must be GFCI protected. ___ None can be closer that 6 feet.
8. ___ All ground wires must be mechanically fastened in junction boxes with wire nuts or other approved fasteners. ___ Metal boxes must be bonded to grounding wires. NO GROUND RODS.
9. ___ If a breaker is used for pool pump make sure it is a Ground fault GFCI not Arc Fault AFCI. A blank face GFCI can be used also.
10. ___ Town will look for circuit timer, pool alarm and fence.