



# Town of Gates

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## Electrical Code Rules Based on N.F.PA-70

### The Residential Code of New York State 2010

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, twist-lock, 15 or 20 amp, GFCI protected with watertight in-use 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 **water-tight, in-use cover. 406.8 (B)(1)**
6. All underground UF wire and PVC conduit 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 an approved raceway. **680.10**
7. At least one **convenience receptacle must be located between 6 and 20 feet** from the water's 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 #8 or larger solid copper wire.** (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 shall have #8 CU 18-24 inches out and 4-6 inches deep if no concrete with wire or wire mesh in it. **680.26(B)(2)** This wire must circle the 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 pool lights, ask for a separate light regulation sheet.
13. For any lighting fixtures outside of the pool, use **680.6(B)(1)(2)(3)/E4103.4.3**

### POOL ALARMS ARE REQUIRED ON ALL NEW POOLS

**NOTE:** A building permit is required in **ALL** localities, secure permits **before starting.**