

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 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 within 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 **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 intermix 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 both 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. For pools, refer to the National Electrical Code (2008) Article 680.
13. For spas and hot tubs, refer to NEC article 680.
14. Pool circuits shall be identified in the circuit breaker panel.
15. Any paved surface within 3 feet of the contour of the pool requires the installation of an equipotential bonding grid. (See Article 680.) This rule also applies to inground pools and hot tubs.
16. Consider hiring a Licensed Electrical Contractor.

YOU WILL NEED TO PROVIDE THE FOLLOWING:

1. A SURVEY OF YOUR PROPERTY SHOWING LOCATION OF POOL. YOU MUST INDICATE THE LOCATION OF THE SEPTIC AND/OR WELL IF APPLICABLE.
2. FILTER AND PUMP SPECIFICATIONS SHOWING THE SIZE OF THE FILTER AND AMOUNT OF WATER IT WILL PROCESS PER HOUR.
3. DRAWINGS AND SPECIFICATION OF POOL
4. SPECIFICATIONS OF A HEATER IF INSTALLING ONE.

YOU WILL NEED TO FILL OUT THE FOLLOWING FORMS:

1. Building subcode
2. Electric subcode
3. Plumbing subcode (if installing a heater)

ONCE THE BUILDING DEPARTMENT HAS RECEIVED A COMPLETE APPLICATION, IT HAS 20 WORKING DAYS TO REVIEW IT.

DO NOT FILL YOUR POOL WITH WATER UNTIL IT IS PROPERLY PROTECTED BY AN APPROVED ENCLOSURE OR BARRIER.

SPECIFICATIONS FOR POOLS

ALL POOLS MUST HAVE A PROTECTIVE BARRIER

IN GROUND POOLS

Electric permit is required for G.F.I., lights, and bonding.
**The National Electric Code (N.E.C) is applied to all pools
**Due to the complexity of pool wiring, it is advisable to get the help of a licensed electrical contractor.
Building permit is required for the installation of a pool
Plumbing permit is required for gas piping and heater
Fire permit is required for a heater
Pool or yard must be enclosed by at least 4' fence with a self-latching gate.
Engineering approval is required.

ABOVE GROUND POOLS

Electric permit is required for a G.F.I., lights and bonding
Building permit is required for installation of pool
Plumbing and Fire permit required if pool is to be heated
A 4' (or higher) pool only requires a barrier around the stairs as long as the pool is not sunken into the ground. The pool must measure at least 4' above the level of the ground to meet the barrier requirements.
Engineering approval may be required.

NOTE: "A removable ladder shall not constitute an acceptable alternative to the enclosure requirements."