



BOROUGH OF RINGWOOD

Building Department ■ Code Enforcement

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Electrical Subcode Requirements Above Ground and Inground Pools

1. A receptacle for the pool motor can be between 6 feet and 10 feet from the pool. It shall be a 20-amp, ground-fault receptacle with an "In Use" cover (a cover where the receptacle can stay plugged in with the cover closed).
2. The underground wiring from the house to the receptacle shall be in a listed electrical pipe (such as PVC) and buried down at 18 inches below grade. The wire in the pipe shall be #12 gauge THWN wire of the proper colors (black, white, green, etc).
3. A bonding wire is required to be #8 gauge solid copper wire and shall be attached from the pool frame to the motor at the grounding lug provided on the motor (all bonding lugs are to be copper and approved for direct burial). Double insulated motors that are UL approved for storable pools need not be bonded (check the manufacturer instructions that comes with the motor).
4. The cord from the motor to the single receptacle shall be a #12 gauge cord approved for outside/wet usage, be of the grounding type and have GFCI protection. The cord length shall not exceed 3 feet.
5. There shall be a convenience receptacle between 6 feet and 20 feet from the side of the pool and it shall be a ground fault protected receptacle.
6. Regular house wiring is allowed inside the house (ex. non-metallic sheath cable, Romex).
7. Use the correct breaker for the correct panel and label it (ex. Square D breaker in a Square D panel).
8. There shall be proper support for the box with the receptacle on it for the pool motor (ex. 4x4 post, angle iron, etc).
9. If there is a pool heater, the lug on the pool heater must be copper, not aluminum.
10. If there is a receptacle needed for a low voltage pool light, it shall be installed a minimum of 6 feet from the pool.
11. Perimeter Surface – 2017 NEC.680.26(2), Bond grid is required on all surfaces, #8 bare solid copper to conform to the contour of the pool and pool deck 18 to 24 inches from the inside wall of the pool 4 to 6 inches below grade bonded to pool steel at four equal points. All metal objects within 5 feet of the pool must be bonded (metal piping, fences, awnings, doors, window frames, etc).
12. Water bonding in accordance with 680.26(7)(c).
13. Pump motors 125/240 volt 15 and 20 amp single phase receptacle or direct connection require GFCI protection.
14. **INSPECTIONS:** A trench inspection is required to inspect the pipe underground from the house to the pool motor receptacle, and a final inspection is required once the pool is completely installed, filled with water, and the pump is working.