

Electrical Requirements for outdoor, above ground swimming pools (2017 NEC)

1. All electrical equipment must be listed
2. No wiring is permitted over a pool
3. All grounding and bonding terminals must be identified for wet and corrosive environments
4. Conduit installed underground must have a minimum of 18-inches burial depth
5. All utilization equipment other than lighting must have a maintenance disconnecting means installed in a readily accessible location at least 5-feet horizontally from the inside wall of the pool
6. All pool pump motors must be GFCI protected. Pool pump receptacles may be mounted on a pressure treated 4 x 4. Pool pump receptacles must be at least six feet from the inside wall of the pool. Pool pump motors must be listed for the purpose
7. UF cable not permitted in vicinity of pool water or chemicals. PVC conduit with conductors rated for wet locations and an insulated equipment grounding conductor is compliant
8. All outdoor receptacles must be GFCI protected with an in-use cover
9. At least one receptacle must be located not less than 6-feet and not more than 20-feet from the inside wall of the pool
10. Perimeter bonding is required for all surfaces included unpaved lawn. A solid #8 AWG copper must be installed around the pool perimeter 18 to 24-inches from the pool at 4 to 6-inches below the subgrade. This conductor must be bonded to the pool at four points uniformly spaced. If the pool is nonconductive, bonding at four points is not required. All metal parts (including but not limited to ladders, fences etc.) within 5-feet of the pool must be bonded to the solid #8 AWG copper
11. The pool water must be bonded to the solid #8 AWG copper conductor. This is typically done with a pre manufactured fitting installed in the filtration system. These devices are readily available and inexpensive. Google "bond pool water" for multiple online options
12. Wiring indoors may be any Chapter 3 wiring method including Types SE and NM (romex). Where subject to pool water chemicals etc. an insulated equipment grounding conductor is required
13. NOTE: The above requirements are illustrative of a typical installation. All applicable NEC requirements (not limited to Article 680) apply