

GENERAL ELECTRICAL REQUIREMENTS  
2002 NATIONAL ELECTRIC CODE

**Swimming Pool and related equipment electrical requirements, condensed.**

Before you begin, please verify all electrical installations before proceeding with the Department of Building Safety.

- 1) All swimming pools, wading pools, spas, hot tubs or fountains: No overhead electrical wires allowed within 10 (ten) feet of the inside wall of the above. Likewise, underground electrical wiring installations shall not be within 5 (five) feet of the wall of the pool, etc.
- 2) Receptacles:
  - a) A receptacle solely for the pool pump motor shall be permitted between five (5) feet and ten (10) feet from the inside walls of the pool or fountain, and where so located, shall be single (not duplex) and of the locking and grounding type and shall be protected by a ground-fault circuit interrupter.
  - b) Other receptacles on the property shall be located at least ten (10) feet from the inside wall of the pool or fountain.
  - c) At dwelling units at least one 120 volt 15 or 20 ampere receptacle shall be located a minimum of ten (10) feet from and not more than twenty (20) feet from the inside wall of the pool.
  - d) All 120 volt receptacles located within twenty (20) feet of the inside walls of a pool or fountain shall be protected by a ground fault circuit interrupter.
- 3) Lighting fixtures, lighting outlets, and ceiling (paddle) fans.
  - a) In outdoor pool areas, lighting fixtures, lighting outlets, and ceiling-suspended (paddle) fans shall not be installed over the pool or over the area extending five (5) feet horizontally from the inside walls of a pool.
  - b) Switching devices on the property shall be located at least five (5) feet horizontally from the inside walls of a pool.
- 4) The pool pump power cord shall be no longer than three (3) feet and shall contain a copper equipment-grounding conductor not smaller than AWG no 12 and shall be of the grounding type. If used within ten (10) feet of the pool it shall be of the locking type.
- 5) All metal parts of the pool equipment shall be bonded together with an AWG no.8 SOLID copper conductor. This would include the conduit near the pump outlet, the pump, the pool metal frame and any other handrail, platform or other metal objects.

