

# DuPage County

## OUTDOOR SPA/HOT TUB ELECTRICAL REQUIREMENTS

NEC Article 680, Section 680.42 governs spa/hot tub outdoor installations; "A spa or hot tub installed outdoors shall comply with the provisions of Parts I and II of this article (Article 680), except as permitted in 680.42(B), that would otherwise apply to pools installed outdoors." In addition the following requirements shall be met:

- NEC 680.12 requires a "Maintenance Disconnecting Means", located within sight and within fifty (50) feet but not closer than five (5) feet from the spa/hot tub.
- NEC 680.22(A)(3) and (A)(5) require a receptacle within ten (10) feet but not closer than six (6) feet nor farther than twenty (20) feet from spa/hot tub and GFCI protected. UL listed "in use" cover required. All receptacles within twenty (20) feet of spa/hot tub on site shall be GFCI protected.
- Liquid tight flexible metal conduit six (6) feet in length or less with a #10AWG copper equipment grounding conductor may be used to provide power to a listed packaged spa/hot tub. Cord and plug connections are allowed where listed and cord is no longer than fifteen (15) feet and protected by a GFCI.
- A #8 AWG SOLID copper bonding conductor is required to connect all metal surfaces within five (5) feet of spa/hot tub inner wall, per NEC 680.26. Bonding by metal to metal mounting on a common frame or base shall be permitted.
- Underground conduit shall be:
  - a) RMC or IMC minimum cover depth six (6) inches.
  - b) May be Schd 80RNC (electrical PVC) minimum cover depth eighteen (18) inches, with RMC or IMC stub ups; all conduits require an equipment grounding conductor sized per Article 250.122, but not smaller than 12 AWG copper.
- Boxes shall be supported or attached per NEC.
- Switching devices shall be located at least five (5) feet horizontally from inside wall of the spa/hot tub.
- Circuit breakers shall be listed for use in the panel, usually of the same manufacturer.
- The use of Extension Cords is not permitted.

