



**ELECTRICAL CODE MANUAL  
COUNTY OF LOS ANGELES  
DEPARTMENT OF PUBLIC WORKS  
BUILDING AND SAFETY DIVISION  
Based on the 2008 LACEC**

**ECM 422.16(A)  
11-24-09  
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## **FLEXIBLE CORD CONNECTED APPLIANCES**

Section 422 16(A) requires that fastened in place cord connected appliances must be specifically intended or identified for flexible cord connection by the listing agency and the manufacturer. The appliances must be marked accordingly.

Some fastened in place appliances such as waste disposers, dishwashers, trash compactors, range hoods, and room air conditioners are specifically permitted to be cord connected by Sections 422 16(B)(1), (2), (3), (4) and 440.64.

Presently, there are no Forced Air Units known to be marked for cord connection. Section 422 16(A) would, therefore, require a Forced Air Unit to be connected with an approved wiring method other than flexible cords. A disconnecting means required and complying with Sections 430 101, 430 102(B), and 430-109 would also be required.

As an alternative installation method for a Forced Air Unit, a flexible cord would be allowed provided the ampacity of the cord conductor is not less than the rating of the branch circuit protective device. The following is a summary of the requirements when installing a Forced Air Unit with a flexible cord.

### **15A Branch Circuit Rating**

- Minimum # 14 AWG branch circuit conductor
- Minimum 15 Amp rated receptacle outlet
- Minimum 15 Amp rated cord cap
- Minimum # 14 AWG extra hard usage cord with Ground

### **20A Branch Circuit Rating**


- Minimum # 12 AWG branch circuit conductor
- Minimum 20 Amp rated receptacle outlet (15Amp rated receptacle outlet is allowed only if two or more receptacles are connected to that specific branch circuit)
- Minimum 20 Amp rated Cord Cap
- Minimum # 12 AWG extra hard usage cord with Ground

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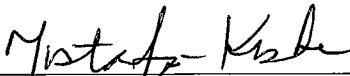
Additional requirements for flexible cord connected appliances.

- Flexible cords shall be protected by bushings or fittings where passing through holes in covers or enclosures.
- The cord-and-plug is permitted to act as the required disconnecting means.
- The Forced Air Unit shall be secured to the surface on which it is mounted


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