

## **Aluminum Wire Fact Sheet**

Aluminum wired connections in homes have been found to have a very high probability of overheating and fire compared with copper wiring. Aluminum wired connections that fail tend to deteriorate slowly over time, and after many years can reach very high temperatures while still remaining electrically functional. A large number of connection burnouts have occurred in aluminum wired homes, resulting in fires.

The risk of an aluminum wired connection over heating and causing a fire varies according to the types of connection, the installation, and usage of the circuit. Without detailed knowledge of the installation of a particular home, it is not possible to provide specific advice on correction measures.

The most certain correction action is to rewire the home with copper wire. But this is expensive and not practical in most cases.

A practical approximation to rewiring can be achieved by a method known as "pigtailling". Pigtailling is using a specially designed connector to splice a short length of solid copper wire to each aluminum wire end. The copper pigtail is then connected to the circuit breaker, light fixture, receptacle, dishwasher, or other termination. This is a reliable and inexpensive alternative to rewiring the entire house.

Whichever remedy is used, Aluminum wiring in homes should be repaired as soon as possible to prevent connection burnout and fire.

For further information link to Aluminum Wire Repair, Inc. web site

[www.alwirerepair.com](http://www.alwirerepair.com)