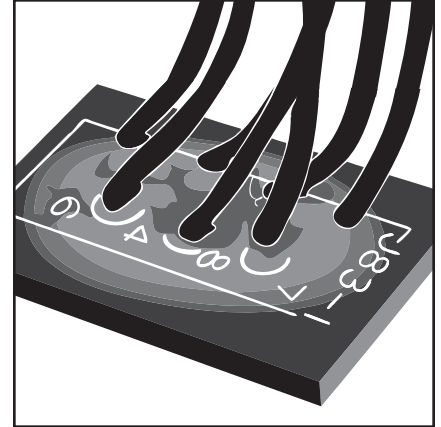


# 3M Application Profile

**Market:** Household Appliance

**Application Description:** Stabilizing, strengthening and securing wires attached to printed circuit boards used with control systems on ranges.



## Key Application Requirements

Quick, convenient, economical.

## Product Replaced

Silicones, solvent-based adhesives.

## Benefits/Advantages To Customer

*Rigidity:* Helps reduce strain and breakage of wires during the handling of printed circuit boards. Helps reduce damage and costs and increase production time. Thus extending the service life and reliability of the printed circuit board.

*Rapid set time/ease of application:* Helps reduce labor and application time.

*Thermally stable:* Resists thermal shock, holds wires secure.

*Transparent:* Increased visibility of the board markings through the adhesive.

*Adhesion:* Secures well to many wires and boards, reducing wire lifting.

## PRODUCT

3M™ Scotch-Weld™  
Hot Melt Adhesive  
3M™ Scotch-Weld™ Epoxy  
Adhesives

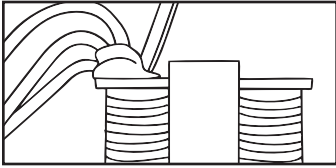
## Process

### Wire Reinforcement

Helps reduce wire breakage in the handling, packaging and use of printed circuit boards. Helps reduce damage and extend service life of the board.

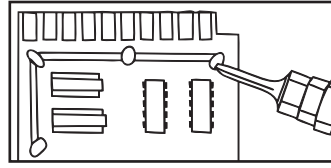
### Other Applications

#### Reinforce wire from motor



Helps prevent case breakage.

#### Wire tacking on printed circuit boards



*Quick, convenient, low-cost method to fasten rework wires, jumper wires, etc., at corners and along lengths to help prevent movement. Jumper wires are added to redirect circuits or repair a printed circuit board. Secure attachment of jumper wires helps to improve the appearance and quality of the repaired PCB.*

### Product

3M™ Scotch-Weld™ Hot Melt Adhesive 3748VO  
3M™ Scotch-Weld™ Epoxy Adhesive DP-190

### Advantages

Flexible; allows wires to bend and be secure during board assembly.  
3M™ Scotch-Weld™ Hot Melt Adhesive 3748VO is UL94VO listed.  
Flexible; impact and shock resistant.

### SIC Code

3631 – Household Cooking Equipment

### Key Decision Makers

Manufacturing and Production Engineers

---

### For Additional Information

To request additional product information or to arrange for sales assistance, call 1-800-362-3550. Address correspondence to: 3M Industrial Business Customer Response Center, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55106. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

---

### Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

### Warranty and Limited Remedy

Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. **3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

---

### Limitation of Liability

Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability.



### Industrial and Transportation Business

Building 21-1W-10, 900 Bush Avenue  
St. Paul, MN 55106  
3M and Scotch-Weld are trademarks of 3M.

Printed in the USA  
Element ID: 39766  
Arcbwjsw.pdf  
© 3M 2006