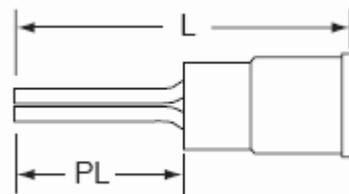




# Specialty Terminals

81P-47-P-A, 82P-47-P-A, 83P-55-P-A  
Pin, Vinyl Insulated, Butted Seam



Data Sheet

February 2008

Product Number	Wire Range (AWG)	Pin Diameter	L	PL	Maximum Insulation Diameter
81P-47-P-A	22-18	.075	.90	0.47	.15
82P-47-P-A	16-14	.075	.90	0.47	.17
83P-55-P-A	12-10	.110	1.06	0.55	.25

## Specifications

Wire Size:	See Table Above
Barrel Seam:	Butted
Maximum Voltage Rating:	600 V Building Wire 1000 V Signs or Fixtures (Luminaires)
Maximum Operating Temp:	167°F (75°C)
Maximum Current:	Same as Wire
Insulator Material:	Vinyl
Terminal Material:	Copper
Terminal Plating:	Tin

## Installation Information

### **WARNING**

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

Strip away the end 3/8 inch of wire insulation.

Make the crimp the proper station of a recommended 3M™ Scotchlok™ Crimp Tool: TH-440, TH-450 (scissor style) or TR-490 (ratchet style) hand tools.



Barrel Crimp (Electrical)

---

**Engineering Specification**

Crimp-Type pin terminals shall, electrically and mechanically, connect to a pre-stripped end of a stranded copper wire, and have a round pin portion for mounting under a screw, stud or inserting in a compatible terminal block.

The pin terminal line shall offer barrel variations, variations in wire (AWG) size (22-18, 16-14 and 12-10) and construction (non-insulated butted seam, nylon insulated with insulation grip, etc.).

---

---

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

---

**Warranty; Limited Remedy;  
Limited Liability:**

This product will be free from defects in material and manufacture at the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

---

3M and Scotchlok are trademarks of 3M Company.

**Electrical Markets Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
800 245 3573  
FAX 800 245 0329  
[www.3M.com/electrical](http://www.3M.com/electrical)

Please recycle.  
© 3M 2008 All rights reserved.  
78-8127-6845-1\_A