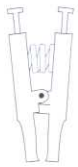
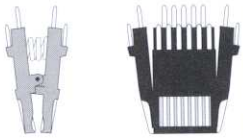
# Test Clip Product Matrix

| Lead Count/ Plating | * Thru-Hole | | | | Surface Mount | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Standard Model Part Numbers (with Nail Heads) | | Connector-Compatible Part Numbers (with Headless Heads) | | Connector-Compatible Part Numbers (with Headless Heads) | | | | |
| | DIP .300 Wide | DIP .600 Wide | DIP .300 Wide | DIP .600 Wide | SOIC .150 Body | SOIC .300 Body | SOJ .300 Body | LCC .050 | PLCC .050 |
| 8 Alloy | 923695 | | 923690-08 | | 923650-08 | | | | |
| Gold | 923743-08 | | 923739-08 | | 923655-08 | | | | |
| 14 Alloy | 923698 | | 923690-14 | | 923650-14 | | | | |
| Gold | 923743-14 | | 923739-14 | | 923655-14 | | | | |
| 16 Alloy | 923700 | 923702 | 923690-16 | 923690-16LSI | 923650-16 | 923660-16 | | | |
| Gold | 923743-16 | 923743-16LSI | 923739-16 | 923739-16LSI | 923655-16 | 923655-16 | | | |
| 18 Alloy | 923703 | | 923690-18 | | | 923660-18 | | | |
| Gold | 923743-18 | | 923739-18 | | | 923665-18 | | | |
| 20 Alloy | 923704 | | 923690-20 | | | 923660-20 | 923660-20 | 923680-20 | 923670-20 |
| Gold | 923743-20 | | 923739-20 | | | 923665-20 | 923665-20 | 923685-20 | 923675-20 |
| 22 Alloy | 923706 | 923705 | 923689-22 | 923690-22 | | | | | |
| Gold | 923742-22 | 923743-22 | 923738-22 | 923739-22 | | | | | |
| 24 Alloy | 923715 | 923714 | 923689-24 | 923690-24 | | 923660-24 | 923660-24 | | |
| Gold | 923742-24 | 923743-24 | 923738-24 | 923739-24 | | 923665-24 | 923665-24 | | |
| 28 Alloy | 923717 | 923718 | 923689-28 | 923690-28 | | 923660-28 | 923660-28 | 923680-28 | 923670-28 |
| Gold | 923742-28 | 923743-28 | 923738-28 | 923739-28 | | 923665-28 | 923665-28 | 923685-28 | 923675-28 |
| 32 Alloy | | 923719 | | 923690-32 | | | | | |
| Gold | | 923743-32 | | 923739-32 | | | | | |
| 36 Alloy | | 923720 | | 923690-36 | | | | | |
| Gold | | 923743-36 | | 923739-36 | | | | | |
| 40 Alloy | | 923722 | | 923690-40 | | | | | |
| Gold | | 923743-40 | | 923739-40 | | | | | |
| 44 Alloy | | | | | | | | 923680-44 | 923670-44 |
| Gold | | | | | | | | 923685-44 | 923675-44 |
| 48 Alloy | | 923724 | | 923690-48 | | | | | |
| Gold | | 923743-48 | | 923739-48 | | | | | |
| 52 Alloy | | | | | | | | 923680-52 | 923670-52 |
| Gold | | | | | | | | 923685-52 | 923675-52 |
| 64 Alloy | | †923726 | | †923690-64 | | | | | |
| Gold | | †923743-64 | | †923739-64 | | | | | |
| 68 Alloy | | | | | | | | 923680-68 | 923670-68 |
| Gold | | | | | | | | 923685-68 | 923675-68 |
| 84 Alloy | | | | | | | | 923680-84 | 923670-84 |
| Gold | | | | | | | | 923685-84 | 923675-84 |

Thru-Hole Test Clip



Surface Mount Test Clips

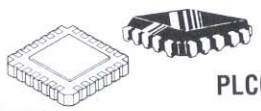


Types of Computer Chips

DIP

SOJ

SOIC



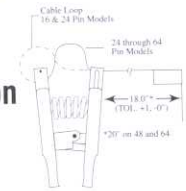
PLCC

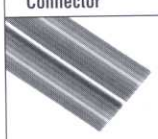
LCC

* For Knife Edge Test Clip use 927 – for all through-hole connector compatible clips. (Available with gold plated leads only, without nailhead.)
† .900 Wide

# 3M Logical Connection Product Matrix

3M Logical Connection




| Remote-end Termination Connector | Description | No. of Contacts | DIP (.100" Spacing) Cable Assembly Only (w/o test clip) Part No. | #1 Pin Pos. | Logical Connection (w/test clip) Part No. | #1 Pin Pos. |
|---|---|---|---|---|---|---|
| | | | Pin #1 (L) Brown Red | | Brown Red Pin #1 (R) | |
|  | Open end | 16 | 922490-16 | L | 923880-16 | R |
| | | 20 | 922490-20 | L | 923880-20 | R |
| | | 24 | 922490-24 | L | 923880-24 | R |
| | | 28 | 922490-28 | L | 923880-28 | R |
| | | 40 | 922490-40 | R | 923930-40 | L |
| | | 48 | 922490-48 | R | 923930-48 | L |
| | | 64 | 922490-64 | R | 923930-64 | L |
|  | DIP Connector - mates with standard 16, 20, 24, 28 and 40 pin DIP Sockets. | 16 | 922594-16 | R | 923884-16 | R |
| | | 20 | 922594-20 | R | 923884-20 | R |
| | | 24 | 922594-24 | R | 923884-24 | R |
| | | 28 | 922594-28 | R | 923884-28 | R |
| | | 40 | 922594-40 | R | 923884-40 | R |
|  | Socket Connector - mates with 2 rows of .025" sq. or dia. pins on .100" centers and shielded receptacles. | 16 | | | 923881-16 | R |
| | | 20 | | | 923881-20 | R |
| | | 26* | | | 923881-24 | R |
| | | 30* | | | 923881-28 | R |
| | | 40 | | | 923881-40 | L |
| | | 50* | | | 923881-48 | L |
| | | 64 | | | 923881-64 | L |

* On 26 position connectors, positions #25 and #26 are unused. On 30 position connectors, positions #29 and #30 are unused. On 50 position connectors, positions #49 and #50 are unused.

## 3M Test Clip Cable Assemblies

Remote test equipment can be easily connected to IC circuitry when the performance proven 3M IC Test Clip is combined with 3M's complete, tested, ready-to-use cable assembly. This combination, "The Logical Connection," is the ideal connection from a logic analyzer to an IC. On one end, socket connectors attach to the pins of a connector-compatible model test clip. On the other end, 3M provides either an open ended cable or a termination method suited to your application. Utilizing "Logical Connection" cable assemblies provide valuable features and reliability.

- Connectors ensure optimum electrical integrity and strain relief.
- Probe holes in the back of all connectors allow easy access to individual lines.
- Cable loops between connectors allow free actuation of the test clip for clearance over all package styles.