

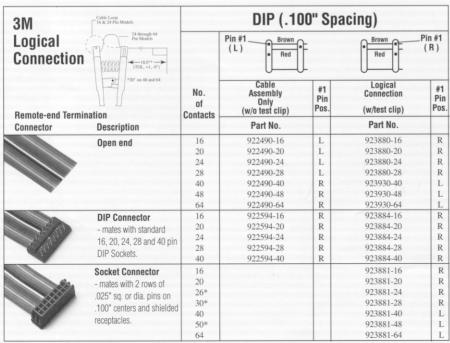
Test Clip Product Matrix

	* Thru-Hole				Surface Mount				Thru-Hole Total	
Lead Count/ Plating	Standard Model Part Numbers (with Nail Heads)		Connector-Compatible Part Numbers (with Headless Heads)		Connector-Compatible Part Numbers (with Headless Heads)				- Test Onp	
	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 Gold	923695 923743-08		923690-08 923739-08		923650-08 923655-08					Surface Mount Test Clips
14 Alloy Gold	923698 923743-14		923690-14 923739-14		923650-14 923655-14					
16 Alloy Gold	923700 923743-16	923702 923743-16LSI	923690-16 923739-16	923690-16LSI 923739-16LSI	923650-16 923655-16	923660-16 923655-16				- M
18 Alloy Gold	923703 923743-18		923690-18 923739-18			923660-18 923665-18				
20 Alloy Gold	923704 923743-20		923690-20 923739-20			923660-20 923665-20	923660-20 923665-20	923680-20 923685-20	923670-20 923675-20	
22 Alloy Gold	923706 923742-22	923705 923743-22	923689-22 923738-22	923690-22 923739-22						Types of Computer Chips
24 Alloy Gold	923715 923742-24	923714 923743-24	923689-24 923738-24	923690-24 923739-24		923660-24 923665-24	923660-24 923665-24			Types of computer omp.
28 Alloy Gold	923717 923742-28	923718 923743-28	923689-28 923738-28	923690-28 923739-28		923660-28 923665-28	923660-28 923665-28	923680-28 923685-28	923670-28 923675-28	
32 Alloy Gold		923719 923743-32		923690-32 923739-32						. AMMINIO
36 Alloy Gold		923720 923743-36		923690-36 923739-36						DIP
40 Alloy Gold		923722 923743-40		923690-40 923739-40						
44 Alloy Gold								923680-44 923685-44	923670-44 923675-44	SO.
48 Alloy Gold		923724 923743-48		923690-48 923739-48						SOIC
52 Alloy Gold								923680-52 923685-52	923670-52 923675-52	
64 Alloy Gold		†923726 †923743-64		†923690-64 †923739-64						annow
68 Alloy Gold								923680-68 923685-68	923670-68 923675-68	PLCC
84 Alloy Gold								923680-84 923685-84	923670-84 923675-84	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



^{*} 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.

What makes 3M products unique

Surface Mount Test Clips

3M Surface Mount Integrated Circuit Test Clips provide a downsized series made for today's smaller components and higher densities. Now hard-to-access Surface Mount ICs can be connected to test probes and logical assemblies quickly and easily without the risk of shorting out clips or damaging other board components.

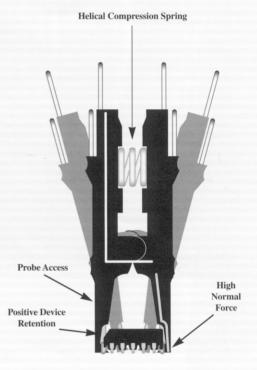
3M Surface Mount test clips are available in different pin sizes to accommodate a wide range of requirements.

Industry standard .025" square contact pins on .050" centers are staggered to permit easy attachment of IDC socket connectors or wire wrappings and help prevent shorting of adjacent probes. With these smaller test clips, you can stack SOIC's as close as .050" end-toend, and PLCC's on .200" centers. In addition, the 3M clips allow safe, accurate and convenient testing of Plastic Leaded (PLCC) and Leadless Ceramic (LCC) Chip Carrier style integrated circuits. The unique actionwedge design of the test clip allows all four of its sides to open simultaneously for a one step, secure attachment to the PLCC being tested.

General features

- Test devices down to .050" center to center lead spacing.
- All four sides of test clip open simultaneously for one-step attachment to PLCC being tested.
- · Stays securely clamped to PLCC.
- Helical compression springs and insulating contact combs ensure contact integrity during testing.
- Probe access points are immediately visible for fast and safe individual lead testing.
- Staggered contact rows on .100" centers facilitate probe attachment and help prevent accidental shorting of adjacent probes.
- Industry standard .025" square contact pins on the .100" centers easily accept single row socket connectors.
- Because of positive attachment to device, test clip will not "fall off" when board is vertical and test probes are hung off the pins.

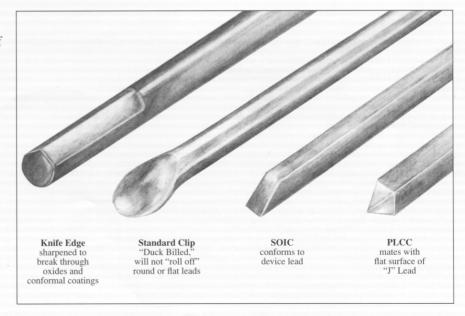
- Wiping action and high normal force combine to provide excellent electrical contact.
- Available in gold plated or alloy 770 leads.



Unique Design Features

Of the many design features that make the 3M Test Clip "a breed apart," the care taken in contact design is but one of them. Each contact has been designed for a specific device to insure:

- · High normal force
- · Excellent electrical contact
- · Long-term performance



Probe Clips

Safe, fast, and easy way to test component leads.

3M's plunger-actuated Probe clips make test connections to individual component and test clip leads easier and faster, and minimize the chances of accidental shorts. Probes will provide hands-free troubleshooting and circuit testing.

Simply press on the cap of the Probe to extend the phospor bronze contact hook. Place it on the component lead being tested, then release for a safe and secure attachment. Probe clips can also be soldered to stranded hook-up wire.

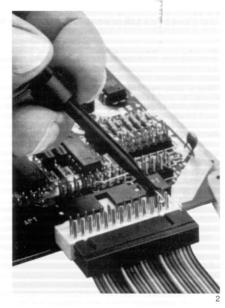
Shorts are dramatically reduced because the contact hook is always sheathed in the nylon body of the Probe clip. The contact hook is only exposed when the cap is manually pressed.

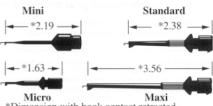
Probe clips are available in four different sizes:1.63", 2.19", 2.38" and 3.56".

	Specifications						
Contact	Phosphor Bronze						
Body	Nylon						

Description	Color	Part Number	
Micro Probe	Red	923830-RD-C	
(2 per package)	Black	923830-BK-C	
	Blue	923830-BU-C	
	Green	923830-GN-C	
	Yellow	923830-YL-C	
	White	923830-WT-C	
Micro Probe Assortment (6 per package)	1 of each	923848-C	
Mini Probe	Red	923835-RD-C	
(2 per package)	Black	923835-BK-C	
	Blue	923835-BU-C	
	Green	923835-GN-C	
	Yellow	923835-YL-C	
	White	923835-WT-C	
Mini Probe Assortment (6 per package)	1 of each	923850-C	
Standard Probe	Red	923840-RD-C	
(2 per package)	Black	923840-BK-C	
Maxi Probe	1 of each	923845-RD-C	
(2 per package)		923845-BK-C	

Probes are also available in bulk packaging





*Dimension with hook contact retracted.

For technical, sales or ordering information, contact 3M at:

Phone: 1-800-321-9668 1-800-321-6329 Fax:

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