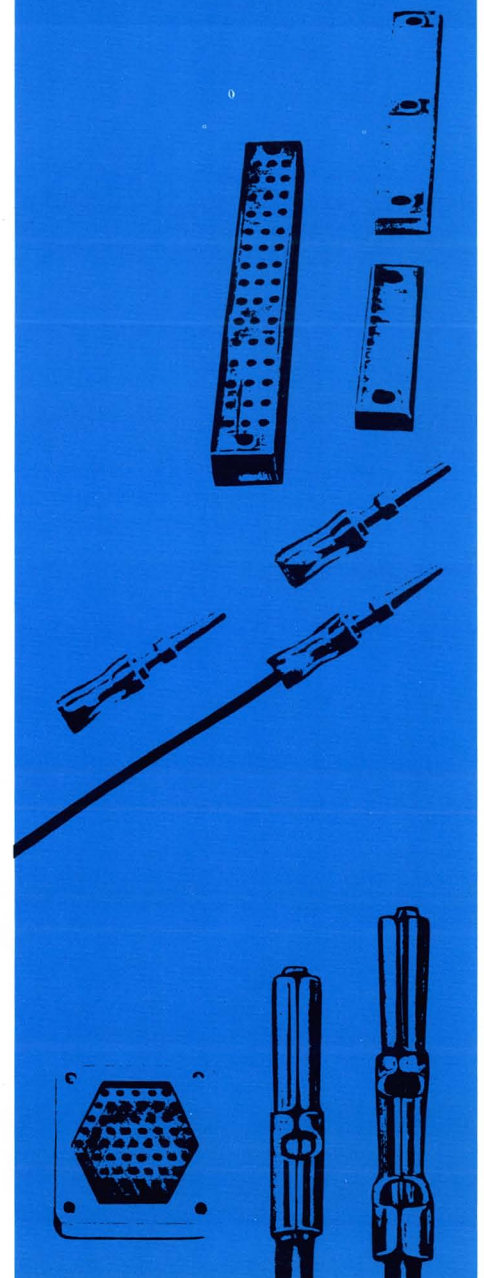


AMP utilizes a modification of the proven wedge principle in the design of precision taper pins and matching receptacles for a wide range of circuit applications where small connector size and optimum electrical/mechanical security are critical factors. Taper pins and receptacles are self-wedging and self-cleaning, and available for use with wire sizes from 28 to 12 AWG. Taper tab receptacles are also available to mate with tabs having front end dimensions of .078" and .098".

Taper Technique products general information . . . . .	23-3
Formed taper pins and receptacles . . . . .	23-8
Solid taper pins . . . . .	23-13
Taper pin blocks, nylon housings, 10, 20, 30, 40, 50, 60, and 101 cavities . . . . .	23-18
Insertion and extraction tools, reamer and gauges . . . . .	23-29
Taper tab receptacles, 78 and 98 Series . . . . .	23-30

## TAPER TECHNIQUE PRODUCTS



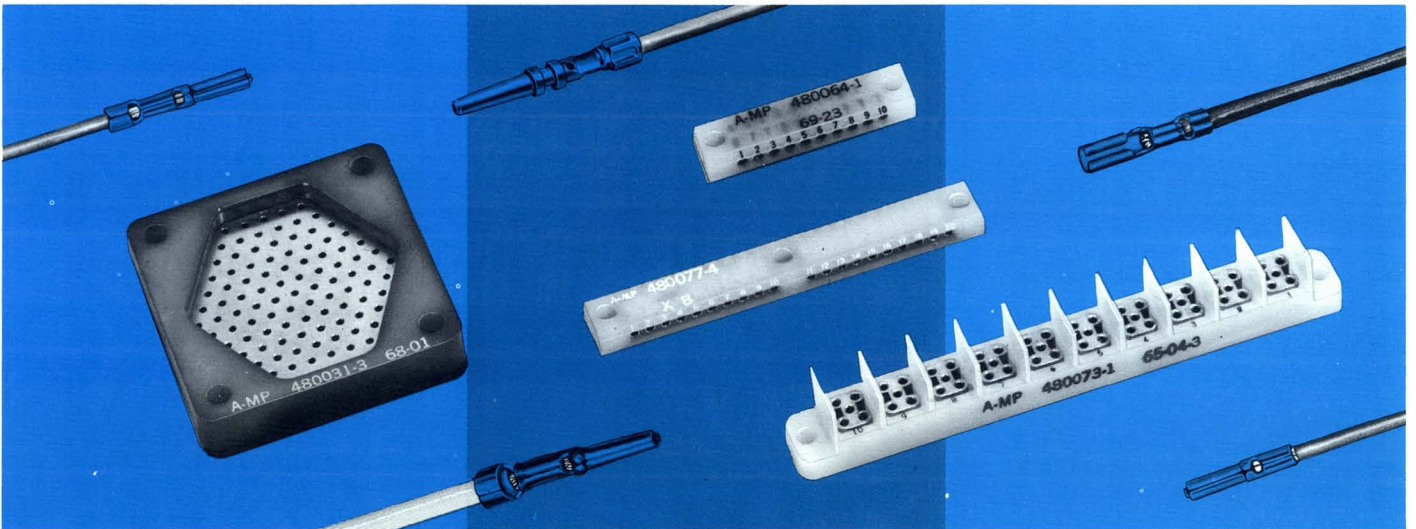


Taper Technique Products

## TAPER TECHNIQUE



**Ampeconomation**  
COST SAVINGS BY DESIGN WORLDWIDE



### INTRODUCTION

The most extensive line of taper products in the industry is made available by AMP. This includes Taper Pins, Taper Pin Receptables and Taper Blocks.

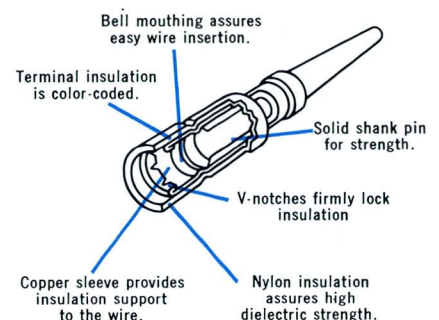
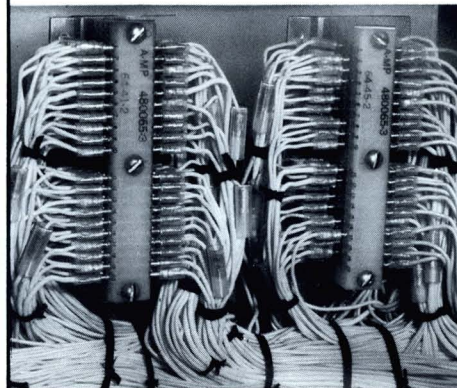
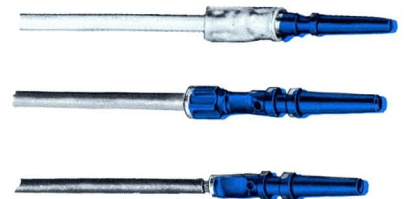
The basic appeal of these products lies in their small size, and in their capacity to deliver superior electrical and mechanical performance under the most severe operating conditions.

For purposes of size classification, the products are divided into series, with each series bearing a number corresponding to the diameter of the pin. For example, the "53" series Taper Pin has a tip diameter of .053". In construction and materials, there is considerable difference between the types of Taper Products, yet all are available with contact finishes of either gold, silver or tin plating. All are manufactured in a wide range of sizes and types to meet most every circuit requirement. However, if in considering them you feel your application calls for some special treatment of the elements involved, our engineers stand ready to help you by creating a design specifically intended to do the job you have in mind.

### Taper Pins (Solid)

PIDG Pre-Insulated pins feature closed barrel, solid construction and wire support in the complete wire range from #16-#26. Screw-machined from fine grade brass, they offer exceptional mechanical and electrical characteristics and strong resistance to vibration and corrosion. A specially designed copper sleeve fitted over the barrel provides circumferential support to the wire insulation. Nylon insulation assures and maintains a high dielectric strength when crimped. The terminal is color coded to identify the wire size range. Crimping with matching AMP tooling provides maximum support for the wire. Pin is gold over nickel plated, and color coding is used to insure the proper matching of tool and wire size. This pin is also available without the insulation support.

Solid screw-machined pins are also available in an uninsulated insulation support version.



ALL DIMENSIONS IN INCHES UNLESS INDICATED OTHERWISE.

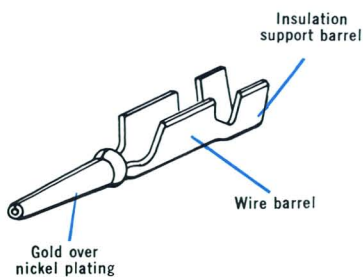
NOTE: Specifications subject to change. Consult AMP Incorporated for latest design specifications.

**Taper Pins (Formed)**

The only complete line of formed taper pins available in the industry, these pins are uninsulated and can be supplied with or without insulation support. Manufactured from fine grade brass and electroplated against corrosion, they meet and exceed military and commercial specifications for vibration, corrosion, heat resistance and electrical conductivity. Two versions are available.

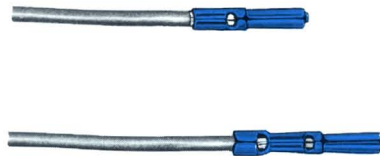
The first utilizes our "F" crimp to terminate the pins. This consists of two sides of wire barrel wrapped around the conductor strands and penetrating into the center of the strands.

The second formed pin is an insulation piercing type designed for the termination of small, stranded wires and tinsel cords. Two perpendicular lances drive through the wire insulation to make contact with the conductor, thereby eliminating the wire stripping operation. Tensile characteristics vary depending upon the type of wire insulation. Because the barrel wraps around the insulation, it deters fraying.



**Taper Pin Receptacles**

AMP "37" Series Taper Pin receptacles mate with taper pins .037" in diameter at the tip. The receptacle is manufactured from beryllium copper and accommodates a wire size range from #26 through #20 A.W.G. It is made with and without insulation support. Wire insulation range is .048" to .071". A long and short type are available to mate with taper pin lengths of .200" and .250". The shorter type is available in non-insulation support only.



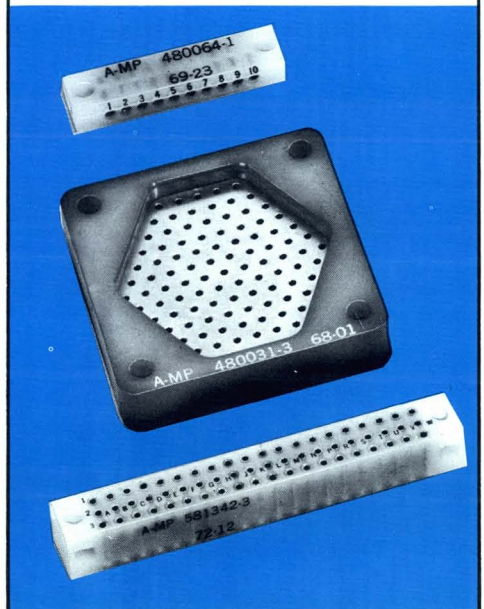
**Taper Pin Blocks**

Complementing the taper pin line is our extensive range of taper pin blocks. Significant contributions have been made by AMP in the development of taper blocks. With the one piece solid block, AMP offers industry the broadest and most versatile lines on the market.

For positive dielectric performance, nylon is used on all housings both solid and two piece. Inserts for the two-piece blocks are available in beryllium copper or brass, plated with tin, silver or gold.

Readily stocked, AMP Taper Blocks are made in basic units of 10, 20, 30 and 60 cavities, with any combination of single, dual or commoned taper pin receptacles in each block. Taper blocks can be — and have been — designed by AMP to meet specialized requirements.

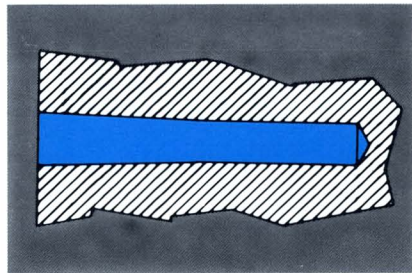
An important feature of the AMP Solid Taper Block is the recessed insert (.047" on either side) which acts as a barrier to voltage creepage. Depressed numerals clearly identify each cavity. Of equal importance is the fact that AMP has eliminated moisture entrapment in its solid taper blocks and warpage tendencies found in other two piece taper blocks.



### The Technique

For simplicity and positive performance, the AMP Taper Technique has proven ideal. It provides greater freedom of design in dealing with factors of space, weight, and size. Equally important, it assures the manufacturer of uniformity and reliability throughout his connections . . . front end at our precision taper and back end at our compression-crimp.

Those using the AMP method offer ample testimony to its effectiveness. Invariably, when the full scale program is introduced, production is simplified and streamlined. Because of the "built-in" quality of our crimping tools, assembly and inspection steps are cut to a minimum. And due to the automatic application capabilities, total installed costs are substantially reduced.



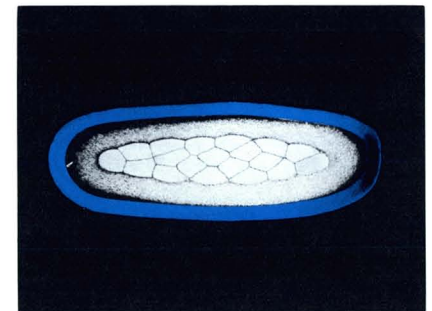
**The Wedge Principle** utilized in the AMP taper technique makes maximum use of space, and its 16 to 1 design — .016" length with .001" change in diameter — and makes taper pins and receptacles self-cleaning and self-locking to assure reliable performance.

### The Compression Crimp

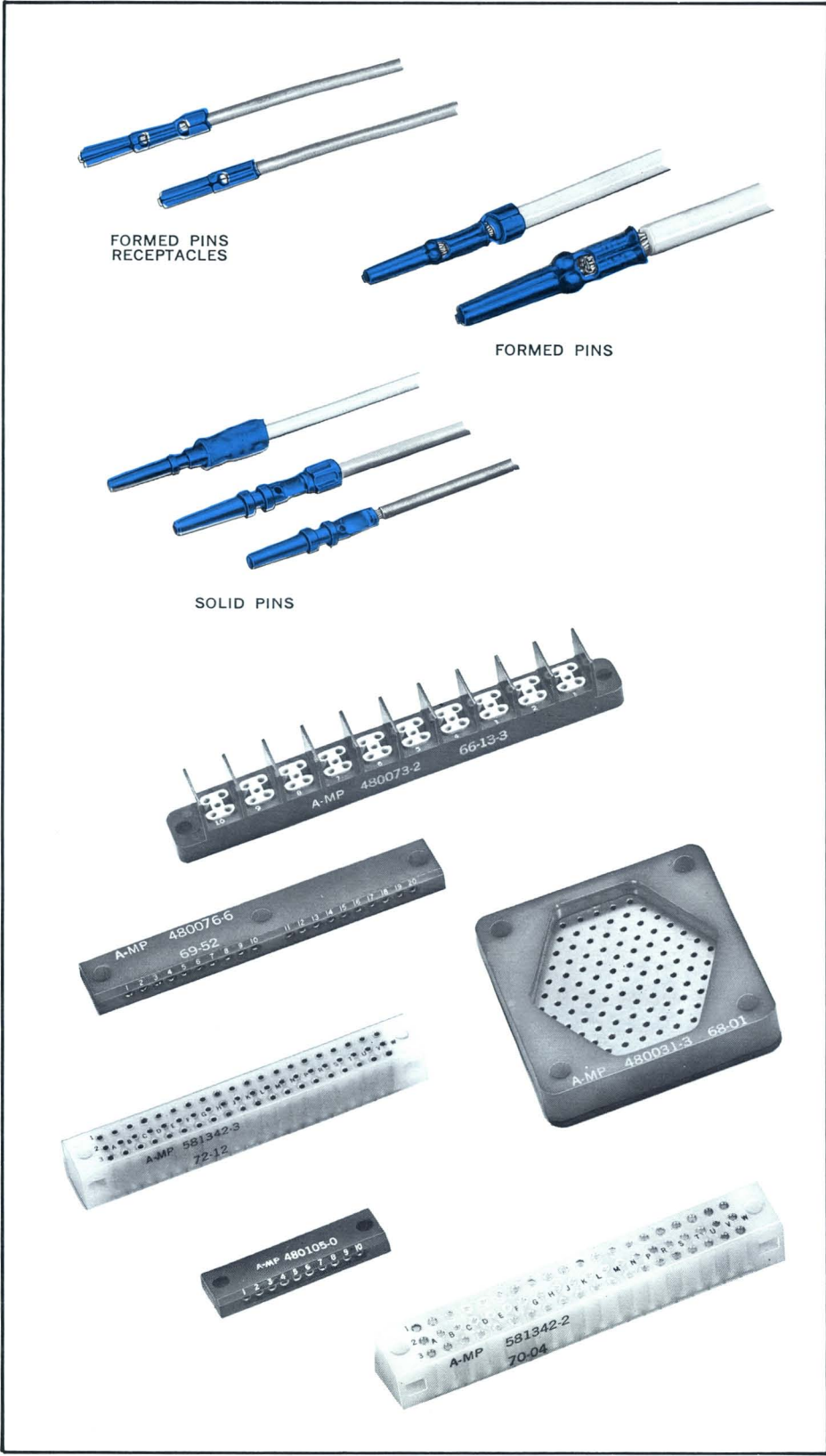
For attaching the taper pin to the electrical conductor, AMP relies on its time-proven compression-crimp technique.

This patented, industry accepted method consists of taper pin wire barrel and crimping dies fabricated to extremely close tolerances for the termination of each specific range of wire sizes.

The termination is accomplished through the application of precise, pre-calibrated pressure delivered by a variety of matching crimping tool types. With every termination the crimping dies of the tool completely "bottom" on the wire and taper pin barrel. This precision-controlled crimping action causes conductor and metal barrel to cold flow together into a homogeneous mass, creating a termination unequalled for conductivity, tensile strength, vibration and corrosion resistance. This results in identical terminations in the tens or tens of millions.



TABULAR DATA



The following tabular data provides you with a simple method of determining the number of the part that meets your individual performance requirements.

The entire tabular section is categorized: Formed Taper Pins & Receptacles, Solid Taper Pins, Taper Block Section and Tooling. Tables under these categories are presented by "Series"—pin or receptacle size. For pins and receptacles, tables are further divided by type—pre-insulated, uninsulated, etc.—and for taper blocks, by the amount of cavities each block contains.

Further divisions within each table are clearly indicated in the headings of the table.

**FINISH CODE**

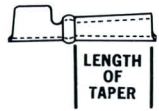
(applies to Pins and Receptacles on pages 23-8 thru 23-17)

AMP offers a wide variety of finishes for taper pins and receptacles. Each table in the tabular data section includes a "FINISH" column which contains the name of the generic finish and a superior numeral, i.e., "Gold<sup>5</sup>". The specific plating materials and thicknesses are listed at the right. For detailed test and performance data on AMP plating, contact your AMP District Sales Engineer or AMP Incorporated, Harrisburg, Pa.

- 1 = .0002 Bright Tin
- 2 = .0002 Silver
- 3 = .00003 Gold over .00005 Nickel
- 4 = .0001 Gold over .0001 Silver
- 5 = .0002 Gold over .00005 Nickel
- 6 = .00005 Gold over .00005 Nickel
- 7 = .0001 Gold over .0001 Nickel
- 8 = .00001 Rhodium over .0002 Silver
- 9 = .000075 Gold over .0001 Copper
- 10 = .000015 Gold over .00003 Nickel

## FORMED TAPER PINS & RECEPTACLES

### "37" SERIES (SIDE FEED)



LENGTH OF TAPER

#### NON-INSULATION SUPPORT — PIN RECEPTACLES FOR "37" SERIES TAPER PINS

PIN INFORMATION							TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	LENGTH OF TAPER	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26-20	42529-1	42821-1		.150	.315	Tin <sup>1</sup>	47998				5
	42529-2	42821-2		.150	.315	Silver <sup>2</sup>	47998				5
	42529-3	42821-3		.150	.315	Gold <sup>3</sup>	47998				5
	42213-1	42431-1		.200	.365	Tin <sup>1</sup>	47998				5
	42213-2	42431-2		.200	.365	Silver <sup>2</sup>	47998				5
	42213-3	42431-3		.200	.365	Gold <sup>3</sup>	47998				5



LENGTH OF TAPER

#### INSULATION SUPPORT — PIN RECEPTACLES FOR "37" SERIES TAPER PINS

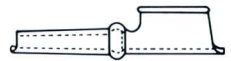
PIN INFORMATION							TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	LENGTH OF TAPER	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26-20	42471-1	42586-1	.048-.071	.200	.485	Tin <sup>1</sup>		90033			5
	42471-2	42586-2	.048-.071	.200	.485	Silver <sup>2</sup>		90033			5
	42471-3	42586-3	.048-.071	.200	.485	Gold <sup>3</sup>		90033			5

(a) Refer to table on page 23-7.

(b) Refer to tooling chart on page 23-29.

### "53" SERIES (END FEED)

#### NON-INSULATION SUPPORT — FORMED PINS FOR "53" SERIES CONNECTOR BLOCKS AND PATCHCORD PROGRAMMING SYSTEMS



PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
20-16	41653	41670		.512	Tin <sup>1</sup>	47093*				3, 11
	42682-1	42377-1		.512	Rhodium <sup>8</sup>	47093*				3, 11

#### INSULATION SUPPORT — FORMED PINS



PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26-30	66353-1	66354-1	.030-.050	.563	Tin <sup>1</sup>		90206-1			2
	66353-2	66354-2	.030-.050	.563	Silver <sup>2</sup>		90206-1			2
	66353-3	66354-3	.030-.050	.563	Gold <sup>3</sup>		90206-1			2
24-22	41278	41661	.040-.055	.490	Tin <sup>1</sup>	48698				2, 10
	41640	41662	.040-.055	.490	Silver <sup>2</sup>	48698				2, 10
	41646	41663	.040-.055	.490	Gold <sup>3</sup>	48698				2, 10
	66091-2	66114-2	.040-.060	.490	Tin <sup>1</sup>	48698				2, 10
	66091-3	66114-3	.040-.060	.490	Gold <sup>3</sup>	48698				2, 10
	66091-4	—	.040-.060	.490	Tin Lead	48698				2, 10
	66113-1	66179-1	.040-.060	.540	Gold <sup>3</sup>	48698				2, 10
	66113-2	66179-2	.040-.060	.540	Silver <sup>2</sup>	48698				2, 10
	66113-3	66179-3	.040-.060	.540	Tin <sup>1</sup>	48698				2, 10
	66266-1	66280-1	.040-.060	.550	Tin <sup>1</sup>	90178-1				2

\*Not for #20 wire.



INSULATION SUPPORT — FORMED PINS (Continued)

WIRE SIZE	PIN INFORMATION					TOOLING INFORMATION				
	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH <sup>(a)</sup>	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE <sup>(b)</sup>
24-22	66266-2	66280-2	.040-.060	.550	Silver <sup>2</sup>	90178-1				2
	66266-3	66280-3	.040-.060	.550	Gold <sup>3</sup>	90178-1				2
	66266-4	66280-4	.040-.060	.550	Brass	90178-1				2
	66033-1	42818-1	.065-.080	.550	Gold <sup>5</sup>	47042				3, 11
	41647	41664	.065-.080	.550	Tin <sup>1</sup>	47042				3, 11
	41648	41665	.065-.080	.550	Silver <sup>2</sup>	47042				3, 11
	41649	41666	.065-.080	.550	Gold <sup>3</sup>	47042				3, 11
20-18	66267-1	66281-1	.050-.075	.617	Tin <sup>1</sup>		90214-1			3, 11
	66267-2	66281-2	.050-.075	.617	Silver <sup>2</sup>		90214-1			3, 11
	66267-3	66281-3	.050-.075	.617	Gold <sup>3</sup>		90214-1			3, 11
	66267-4	66281-4	.050-.075	.617	Brass		90214-1			3, 11
	42229-1	42231-1	.060-.080	.617	Tin <sup>1</sup>	90189-1				3, 11
	42229-2	42231-2	.060-.080	.617	Silver <sup>2</sup>	90189-1				3, 11
	42229-3	42231-3	.060-.080	.617	Gold <sup>3</sup>	90189-1				3, 11
	42229-7	42231-7	.060-.080	.617	Gold <sup>6</sup>	90189-1				3, 11
	66200-1	66201-1	.060-.080	.617	Tin <sup>1</sup>	90189-1				3, 11
	41650	41667	.080-.100	.617	Tin <sup>1</sup>	47043-LH 90010-SH				3, 11
	41651	41668	.080-.100	.617	Silver <sup>2</sup>	47043-LH 90010-SH				3, 11
	41652	41669	.080-.100	.617	Gold <sup>3</sup>	47043-LH 90010-SH				3, 11
60183-1	42772-1	.080-.100	.617	Gold <sup>5</sup>	47043-LH 90010-SH				3, 11	
18-16	66268-1	66282-1	.060-.080	.617	Tin <sup>1</sup>		90198-1			3, 11
	66268-2	66282-2	.060-.080	.617	Silver <sup>2</sup>		90198-1			3, 11
	66268-3	66282-3	.060-.080	.617	Gold <sup>3</sup>		90198-1			3, 11
	66268-4	66282-4	.060-.080	.617	Brass		90198-1			3, 11
	60066-1	60173-1	.070-.100	.617	Tin <sup>1</sup>		90198-1			3, 11
	60066-2	60173-2	.070-.100	.617	Silver <sup>2</sup>		90198-1			3, 11
	60066-3	60173-3	.070-.100	.617	Gold <sup>3</sup>		90198-1			3, 11
	60066-5	60173-5	.070-.100	.617	Brass		90198-1			3, 11
	60066-6	60173-6	.070-.100	.617	Gold <sup>6</sup>		90198-1			3, 11
	41656	41673	.100-.140	.617	Tin <sup>1</sup>	90024-LH 47044-SH	90007			3, 11
	41657	41674	.100-.140	.617	Silver <sup>2</sup>	90024-LH 47044-SH	90007			3, 11
	41658	41675	.100-.140	.617	Gold <sup>3</sup>	90024-LH 47044-SH	90007			3, 11
	41658-1	41675-1	.100-.140	.617	Gold <sup>6</sup>	90024-LH 47044-SH	90007			3, 11
	66202-1	66203-1	.100-.140	.617	Tin <sup>1</sup>	47044-SH	90007			3, 11
#30 Copper Weld	42762-1	66112-1	.040-.060	.490	Tin <sup>1</sup>	46459				2, 10
	42762-2	66112-2	.040-.060	.490	Silver <sup>2</sup>	46459				2, 10
	42762-3	66112-3	.040-.060	.490	Gold <sup>3</sup>	46459				2, 10
	42762-4	66112-4	.040-.060	.490	Brass	46459				2, 10
#28 Copper Weld	66318-1	66320-1	.040-.060	.490	Gold <sup>3</sup>	46459				2, 10

\*LH = Long handle tool. SH = Short handle tool. (a) Refer to table on page 23-7. (b) Refer to tooling chart on page 23-29.

## "53" SERIES (Continued)

### INSULATION SUPPORT-FORMED PINS (SIDE FEED)

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26	583771-1	583771-2	.025-.028	.573	Silver <sup>2</sup>		90307-1			2
	583519-1	583520-1	.035-.041	.573	Silver <sup>2</sup>					2
24-22	66186-1	66199-1	.040-.055	.573	Tin <sup>1</sup>	90115				2
	66186-2	66199-2	.040-.055	.573	Silver <sup>2</sup>	90115				2
	66186-3	66199-3	.040-.055	.573	Gold <sup>3</sup>	90115				2
	66186-5	66199-5	.040-.055	.573	Tin-Lead	90115				2
	66346-1	—	.040-.055	.573	Tin <sup>1</sup>	90115				2
	66346-2	—	.040-.055	.573	Silver <sup>2</sup>	90115				2
	66346-3	—	.040-.055	.573	Gold <sup>3</sup>	90115				2
	66285-1	66286-1	.040-.055	.573	Tin <sup>1</sup>	90115				2
	66285-2	66286-2	.040-.055	.573	Silver <sup>2</sup>	90115				2
	66285-3	66286-3	.040-.055	.573	Gold <sup>3</sup>	90115				2
	66235-1	66243-1	.070-.095	.573	Tin <sup>1</sup>	90135				34
	66235-2	66243-2	.070-.095	.573	Silver <sup>2</sup>	90135				34
66235-3	66243-3	.070-.095	.573	Gold <sup>3</sup>	90135				34	



### INSULATION PIERCING — FORMED PINS FOR "53" SERIES CONNECTOR BLOCKS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	41279	41780	.055-.060	.490	Tin <sup>1</sup>	47106† 47150				15
	41744	42451-2	.055-.060	.490	Gold <sup>3</sup>	47106† 47150				15
2049 Tinsel	41506	41676	.057-.063	.490	Tin <sup>1</sup>	47106† 47150				15
1895 Tinsel	42004-1	None	.070-.076	.490	Tin <sup>1</sup>	47106† 47150				14
	42004-0	None	.070-.076	.490	Brass	47106† 47150				14

† This tool does not have a CERTI-CRIMP ratchet.



## "61" SERIES (END FEED)

### NON-INSULATION SUPPORT — SPECIAL 2½° FORMED PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
22-16	66062-1	None	Solid Wire	.562	Brass	18-16 46306 22-16 47357				13
	41296	41297	Solid Wire	.562	Tin <sup>1</sup>	18-16 46306 22-16 47357				13

“61” SERIES (Continued)



INSULATION SUPPORT — SPECIAL 2½° FORMED PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
30-28	66184-1	66269-1	.030-.050	.562	Brass		90192-1			14
	66184-2	66269-2	.030-.050	.562	Tin <sup>1</sup>		90192-1			14
	42155-2	42248-2	.048-.071	.566	Tin <sup>1</sup>		59530			14
	42155-3	42248-3	.048-.071	.566	Silver <sup>2</sup>		59530			14
	42155-4	42248-4	.048-.071	.566	Gold <sup>3</sup>		59530			14
	42444-1	42447-1	.048-.071	.566	Brass		59530			14
	42444-2	42447-2	.048-.071	.566	Tin <sup>1</sup>		59530			14
	24-20	42608-1	None	.048-.071 Lance	.566	Brass		59530		
42608-2		None	.048-.071 Lance	.566	Tin <sup>1</sup>		59530			14
66140-1		66141-1	.048-.071	.566	Tin <sup>1</sup>		90119			14
66140-2		66141-2	.048-.071	.566	Brass		90119			14
66140-3		66141-3	.048-.071	.566	Silver <sup>2</sup>		90119			14
66140-4		66141-4	.048-.071	.566	Gold <sup>3</sup>		90119			14
22-18	42031-0	42128-1	.048-.070	.650	Brass	90078-LH 47450-SH				14
	42031-1	42128-2	.048-.070	.650	Tin <sup>1</sup>	90078-LH 47450-SH				14
18-16	42147-1	42345-1	.080-.120	.700	Brass	90172-1				16
	42147-2	42345-2	.080-.120	.700	Tin <sup>1</sup>	90172-1				16
16-14	42148-2	42324-2	.095-.145	.700	Tin <sup>1</sup>					16
	42090-2	None	.095-.145 Lance	.700	Tin <sup>1</sup>					16
Two 18 or Two 16	42296-1	42929-1	.090-.110 Per Wire	.704	Brass					16
	42296-2	42929-2	.090-.110 Per Wire	.704	Tin <sup>1</sup>					16

(a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.

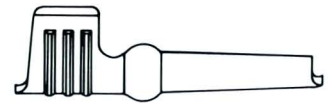


INSULATION PIERCING — SPECIAL 2½° FORMED PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24	42388-1	42359-3	.048-.054	.562	Brass	47106 <sup>†</sup> 47150				14
	41405	42359-2	.048-.054	.562	Tin <sup>1</sup>	47106 <sup>†</sup> 47150				14
	40750	42359-1	.048-.054	.562	Brass	47106 <sup>†</sup> 47150				14
20	41686	42564-1	.065-.071	.630	Brass	47106 <sup>†</sup> 47150				14
	40669	42358-1	.065-.071	.562	Brass	47106 <sup>†</sup> 47150				14
	42387-1	None	.065-.071	.562	Brass	47106 <sup>†</sup> 47150				14
	42681-1	42358-4	.065-.071	.562	Tin <sup>1</sup>	47106 <sup>†</sup> 47150				14
	42681-2	42358-3	.065-.071	.562	Gold <sup>3</sup>	47106 <sup>†</sup> 47150				14
	41752	None	.065-.071	.626	Brass	47106 <sup>†</sup> 47150				14
	42753-1	None	.065-.071	.630	Tin <sup>1</sup>	47106 <sup>†</sup> 47150				14

\*LH = Long handle tool. SH = Short handle tool.  
<sup>†</sup>This tool does not have a CERTI-CRIMP ratchet.

(a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.



### NON-INSULATION SUPPORT – FORMED PINS FOR "88" SERIES CONNECTOR BLOCKS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
14-12	42107-2	42279-1		.743	Tin <sup>1</sup>	47689				8
	42107-3	42279-2		.743	Silver <sup>2</sup>	47689				8
	42107-4	42279-3		.743	Gold <sup>3</sup>	47689				8

## "93" SERIES (END FEED)



### INSULATION SUPPORT – SPECIAL 2½° FORMED PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24	42257-1	42396-1	.048-.071	.655	Brass	46564		90061	90061	14
	42257-2	42396-2	.048-.071	.655	Tin <sup>1</sup>	46564		90061	90061	14
	42257-3	42396-3	.048-.071	.655	Gold <sup>9</sup>	46564		90061	90061	14
	42446-1	42449-1	.048-.071	.655	Brass			90061	90061	14
	42446-2	42449-2	.048-.071	.655	Tin <sup>1</sup>			90061	90061	14
24-20	66047-1	66048-1	.048-.071	.715	Brass		90092			14
	66047-2	66048-2	.048-.071	.715	Tin <sup>1</sup>		90092			14
	66047-3	66048-3	.048-.071	.715	Gold <sup>9</sup>		90092			14
21-17	42307-1	42921-1	.090-.115	.750	Brass	46412				13
	42307-2	42921-2	.090-.115	.750	Tin <sup>1</sup>	46412				13
Two 24 Thru Two 20	42166-1	42247-2	.045-.075	.750	Tin <sup>1</sup>	46412				13
18-16	66228-1	66230-1	.080-.120	.770	Brass	90172-1				16
	66228-2	66230-2	.080-.120	.770	Tin <sup>1</sup>	90172-1				16



### INSULATION PIERCING – SPECIAL 2½° FORMED PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24	41034	42362-1	.048-.054	.655	Brass	47106† 47150				14
	42391-1	42362-2	.048-.054	.655	Brass	47106† 47150				14
20	42386-1	None	.065-.071	.625	Brass	47106† 47150				14
	41848	42436-1	.065-.071	.750	Brass					
	40628	42357-1	.065-.071	.625	Brass	47106† 47150				14



### INSULATION SUPPORT – SPECIAL 2½° FORMED PIN RECEPTACLES FOR "93" SERIES TAPER PINS

PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER STRIP	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-20	42371-1	583210-1	.048-.071	.610	Brass					9
	42371-2	583210-2	.048-.071	.610	Tin <sup>1</sup>					9

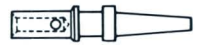
†This tool does not have a CERTI-CRIMP ratchet.

(a) Refer to table on page 23-7.  
(b) Refer to tooling chart on page 23-29.

# SOLID TAPER PINS (FOR STRANDED WIRE ONLY)

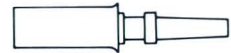
## "37" SERIES

### NON-INSULATION SUPPORT — SOLID PINS FOR "37" SERIES PIN RECEPTACLES



PIN INFORMATION					TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	42882-1		.475	Tin <sup>1</sup>	90049-1	90044-2			25
	42882-2		.475	Silver <sup>2</sup>	90049-1	90044-2			25
	42882-3		.475	Gold <sup>3</sup>	90049-1	90044-2			25

### PRE-INSULATED — SOLID PINS FOR "37" SERIES PIN RECEPTACLES



PIN INFORMATION						TOOLING INFORMATION					
WIRE SIZE	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)	69875 AMP-TAPETRONIC OR 68075 AMP-TAPEMATIC MACHINE DIES
24-22	42883-2	.040-.080	Yellow	.665	Silver <sup>2</sup>	46222-SH 90015-LH	45306			24	90232-2
	42883-3	.040-.080	Yellow	.665	Gold <sup>3</sup>	46222-SH 90015-LH	45306			24	90232-2

\*LH = Long handle tool. SH = Short handle tool.  
 (a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.

## "53" SERIES

### NON-INSULATION SUPPORT — SOLID PINS FOR "53" SERIES CONNECTOR BLOCKS



PIN INFORMATION						TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69619-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26	66050-1	66050-7		.515	Tin <sup>1</sup>	90049-1		90044-2		25
	66050-2	66050-8		.515	Silver <sup>2</sup>	90049-1		90044-2		25
	66050-3	66050-9		.515	Gold <sup>3</sup>	90049-1		90044-2		25
	66050-4	None		.515	Gold <sup>7</sup>	90049-1		90044-2		25
24-22	66051-1	66051-7		.515	Tin <sup>1</sup>	90049-1		90044-2		25
	66051-2	66051-8		.515	Silver <sup>2</sup>	90049-1		90044-2		25
	66051-3	66051-9		.515	Gold <sup>3</sup>	90049-1		90044-2		25
	66051-4	None		.515	Gold <sup>7</sup>	90049-1		90044-2		25
	66051-5	None		.515	Gold <sup>5</sup>	90049-1		90044-2		25
20-18	66052-1	66052-7		.535	Tin <sup>1</sup>	90050-1		90125-2		25
	66052-2	66052-8		.535	Silver <sup>2</sup>	90050-1		90125-2		25
	66052-3	66052-9		.535	Gold <sup>3</sup>	90050-1		90125-2		25
	66052-4	None		.535	Gold <sup>7</sup>	90050-1		90125-2		25
	66052-5	None		.535	Gold <sup>5</sup>	90050-1		90125-2		25
16	66053-1	66053-7		.535	Tin <sup>1</sup>	90050-1		90125-2		25
	66053-2	66053-8		.535	Silver <sup>2</sup>	90050-1		90125-2		25
	66053-3	66053-9		.535	Gold <sup>3</sup>	90050-1		90125-2		25
	66053-4	None		.535	Gold <sup>7</sup>	90050-1		90125-2		25
	66053-5	None		.535	Gold <sup>5</sup>	90050-1		90125-2		25



### NON-INSULATION SUPPORT – SOLID ROUND NOSE PINS (NASA) FOR "53" SERIES CONNECTOR BLOCKS

PIN INFORMATION					TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	66123-1		.745	Tin <sup>1</sup>	90049-1		90044-2		25
	66123-2		.745	Silver <sup>2</sup>	90049-1		90044-2		25
	66123-3		.745	Gold <sup>3</sup>	90049-1		90044-2		25
20-18	66125-1		.780	Tin <sup>1</sup>	90050-1		90125-2		25
	66125-2		.780	Silver <sup>2</sup>	90050-1		90125-2		25
	66125-3		.780	Gold <sup>3</sup>	90050-1		90125-2		25
16	66163-1		.780	Tin <sup>1</sup>	90050-1		90125-2		25
	66163-2		.780	Silver <sup>2</sup>	90050-1		90125-2		25
	66163-3		.780	Gold <sup>3</sup>	90050-1		90125-2		25



### NON-INSULATION SUPPORT – SOLID ROUND NOSE PINS FOR "53" SERIES CONNECTOR BLOCKS

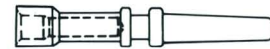
PIN INFORMATION					TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	66074-1		.650	Tin <sup>1</sup>	90049-1		90044-2		25
	66074-2		.650	Silver <sup>2</sup>	90049-1		90044-2		25
	66074-3		.650	Gold <sup>3</sup>	90049-1		90044-2		25
20-18	66075-1		.685	Tin <sup>1</sup>	90050-1		90125-2		25
	66075-2		.685	Silver <sup>2</sup>	90050-1		90125-2		25
	66075-3		.685	Gold <sup>3</sup>	90050-1		90125-2		25
16	66076-1		.685	Tin <sup>1</sup>	90050-1		90125-2		25
	66076-2		.685	Silver <sup>2</sup>	90050-1		90125-2		25
	66076-3		.685	Gold <sup>3</sup>	90050-1		90125-2		25



### NON-INSULATION SUPPORT – SOLID LONG SHOULDER PINS FOR "53" SERIES CONNECTOR BLOCKS AND PATCHCORD PROGRAMMING SYSTEMS

PIN INFORMATION					TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
26	66058-1		.650	Tin <sup>1</sup>	90049-1	90044-2			25
	66058-2		.650	Silver <sup>2</sup>	90049-1	90044-2			25
	66058-3		.650	Gold <sup>3</sup>	90049-1	90044-2			25
24-22	42631-1		.650	Tin <sup>1</sup>	90049-1	90044-2			25
	42631-2		.650	Silver <sup>2</sup>	90049-1	90044-2			25
	42631-3		.650	Gold <sup>3</sup>	90049-1	90044-2			25
20-18	42632-1		.670	Tin <sup>1</sup>	90050-1	90125-2			25
	42632-2		.670	Silver <sup>2</sup>	90050-1	90125-2			25
	42632-3		.670	Gold <sup>3</sup>	90050-1	90125-2			25
16	42647-1		.670	Tin <sup>1</sup>	90050-1	90125-2			25
	42647-2		.670	Silver <sup>2</sup>	90050-1	90125-2			25
	42647-3		.670	Gold <sup>3</sup>	90050-1	90125-2			25

(a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.



UN-INSULATED INSULATION SUPPORT – SOLID PINS\*\* FOR "53" SERIES CONNECTOR BLOCKS

WIRE SIZE	PIN INFORMATION					TOOLING INFORMATION				
	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69619-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
28-24	66205-2	66205-6	.031-.048	.680	Gold <sup>3</sup>	90116				25
	66205-3	None	.031-.048	.680	Silver <sup>2</sup>	90116				25
	66205-4	None	.031-.048	.680	Tin <sup>1</sup>	90116				25
	66206-2	66206-6	.045-.062	.680	Gold <sup>3</sup>	90116				25
	66206-3	None	.045-.062	.680	Silver <sup>2</sup>	90116				25
	66206-4	None	.045-.062	.680	Tin <sup>1</sup>	90116				25
	66207-2	66207-6	.060-.078	.680	Gold <sup>3</sup>	90116				25
	66207-3	None	.060-.078	.680	Silver <sup>2</sup>	90116				25
24-20	66208-2	66208-6	.040-.058	.680	Gold <sup>3</sup>	90116		90103		25
	66208-3	None	.040-.058	.680	Silver <sup>2</sup>	90116		90103		25
	66208-4	None	.040-.058	.680	Tin <sup>1</sup>	90116		90103		25
	66209-2	66209-6	.055-.070	.680	Gold <sup>3</sup>	90116		90103		25
	66209-3	None	.055-.070	.680	Silver <sup>2</sup>	90116		90103		25
	66209-4	None	.055-.070	.680	Tin <sup>1</sup>	90116		90103		25
	66210-2	66210-6	.070-.083	.680	Gold <sup>3</sup>	90116		90103		25
	66210-3	None	.070-.083	.680	Silver <sup>2</sup>	90116		90103		25
18-16	66210-4	None	.070-.083	.680	Tin <sup>1</sup>	90116		90103		25
	66211-2	66211-6	.102 Max.	.680	Gold <sup>3</sup>	90117				24
	66211-3	None	.102 Max.	.680	Silver <sup>2</sup>	90117				24
	66211-4	None	.102 Max.	.680	Tin <sup>1</sup>	90117				24

PRE-INSULATED – SOLID PINS FOR "53" SERIES CONNECTOR BLOCKS



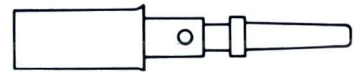
WIRE SIZE	PIN INFORMATION					TOOLING INFORMATION					
	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)	69875 AMP-TAPETRONIC OR 68075 AMP-TAPEMATIC MACHINE DIES
26	42927-1	42927-5	.040-.080	Blue	.695	Tin <sup>1</sup>	46222-SH 90015-LH	45306		24	90232-2
	42927-2	42927-6	.040-.080	Blue	.695	Silver <sup>2</sup>	46222-SH 90015-LH	45306		24	90232-2
	42927-3	42927-7	.040-.080	Blue	.695	Gold <sup>3</sup>	46222-SH 90015-LH	45306		24	90232-2
	42927-4	None	.040-.080	Blue	.695	Gold <sup>5</sup>	46222-SH 90015-LH	45306		24	90232-2
24-22	42574-1	42574-8	.040-.080	Yellow	.695	Tin <sup>1</sup>	46222-SH 90015-LH	45306		24	90232-2
	42574-2	42574-9	.040-.080	Yellow	.695	Silver <sup>2</sup>	46222-SH 90015-LH	45306		24	90232-2
	42574-3	1-42574-0	.040-.080	Yellow	.695	Gold <sup>3</sup>	46222-SH 90015-LH	45306		24	90232-2
	42574-4	None	.040-.080	Yellow	.695	Gold <sup>7</sup>	46222-SH 90015-LH	45306		24	90232-2
	42574-5	1-42574-1	.040-.080	Yellow	.695	Gold <sup>5</sup>	46222-SH 90015-LH	45306		24	90232-2

\*LH = Long handle tool. SH = Short handle tool.  
 \*\*This taper pin crimpable in MS 3191 crimping tool.

(a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.

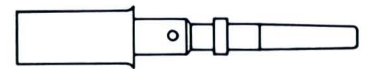
## "53" SERIES (Continued) PRE-INSULATED – SOLID PINS (Continued)

PIN INFORMATION							TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69875 AMP-TAPETRONIC DIE NUMBER	INSERTION TOOL CODE(b)
20-18	42575-1	42575-6	.060-.100	Natural	.715	Tin <sup>1</sup>	46223-SH 90016-LH		45305	90304-1	24
	42575-2	42575-7	.060-.100	Natural	.715	Silver <sup>2</sup>	46223-SH 90016-LH		45305	90304-1	24
	42575-3	42575-8	.060-.100	Natural	.715	Gold <sup>3</sup>	46223-SH 90016-LH		45305	90304-1	24
	42575-4	1-42575-0	.060-.100	Natural	.715	Gold <sup>7</sup>	46223-SH 90016-LH		45305	90304-1	24
	42575-5	42575-9	.060-.100	Natural	.715	Gold <sup>5</sup>	46223-SH 90016-LH		45305	90304-1	24
16	42637-1	42637-5	.080-.115	Black	.705	Tin <sup>1</sup>	46223-SH 90016-LH		45305	90304-1	24
	42637-2	42637-6	.080-.115	Black	.705	Silver <sup>2</sup>	46223-SH 90016-LH		45305	90304-1	24
	42637-3	42637-7	.080-.115	Black	.705	Gold <sup>3</sup>	46223-SH 90016-LH		45305	90304-1	24
	42637-4	42637-8	.080-.115	Black	.705	Gold <sup>5</sup>	46223-SH 90016-LH		45305	90304-1	24



## PRE-INSULATED – SOLID ROUND NOSE PINS (STANDARD) FOR "53" SERIES CONNECTOR BLOCKS

PIN INFORMATION							TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69365 TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	66071-1	None	.040-.080	Yellow	.825	Tin <sup>1</sup>	90026				24
	66071-3	None	.040-.080	Yellow	.825	Gold <sup>3</sup>	90026				24
20-18	66072-1	None	.060-.100	Natural	.860	Tin <sup>1</sup>	90025				24
	66072-2	None	.060-.100	Natural	.860	Silver <sup>2</sup>	90025				24
	66072-3	None	.060-.100	Natural	.860	Gold <sup>3</sup>	90025				24
16	66073-1	None	.080-.115	Black	.860	Tin <sup>1</sup>	90025				24
	66073-3	None	.080-.115	Black	.860	Gold <sup>3</sup>	90025				24



## PRE-INSULATED – SOLID ROUND NOSE PINS (LONG) FOR "53" SERIES CONNECTOR BLOCKS

PIN INFORMATION							TOOLING INFORMATION				
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)
24-22	66122-1	66122-4	.040-.080	Yellow	.920	Tin <sup>1</sup>	90036		69283	69285	24, 12
	66122-2	66122-5	.040-.080	Yellow	.920	Silver <sup>2</sup>	90036		69283	69285	24, 12
	66122-3	66122-6	.040-.080	Yellow	.920	Gold <sup>3</sup>	90036		69283	69285	24, 12
	66171-3†	66171-4†	.040-.080	Yellow	.830	Gold <sup>3</sup>		90153-1	90158-1		25
20-18	66124-1	66124-4	.060-.100	Natural	.955	Tin <sup>1</sup>	90037		69282	69284	24, 12
	66124-2	66124-5	.060-.100	Natural	.955	Silver <sup>2</sup>	90037		69282	69284	24, 12
	66124-3	66124-6	.060-.100	Natural	.955	Gold <sup>3</sup>	90037		69282	69284	24, 12
	66172-3†	66172-4†	.060-.100	Natural	.890	Gold <sup>3</sup>		90153-1	90159-1		24
16	66162-2	None	.080-.115	Black	.955	Silver <sup>2</sup>	90037		69282	69284	24, 12
	66162-3	66162-5	.080-.115	Black	.955	Gold <sup>3</sup>	90037		69282	69284	24, 12
	66173-3†	66173-4†	.080-.115	Black	.890	Gold <sup>3</sup>		90153-1	90159-1		24

\*LH = Long handle tool. SH = Short handle tool.  
(a) Refer to table on page 23-7.

(b) Refer to tooling chart on page 23-29.  
†Above parts have gold plated copper sleeve.



“53” SERIES (Continued)

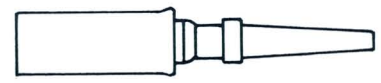


PRE-INSULATED – SOLID LONG SHOULDER PINS FOR “53” SERIES CONNECTOR BLOCKS AND PATCHCORD PROGRAMMING SYSTEMS

PIN INFORMATION							TOOLING INFORMATION					
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)	69875 AMP-TAPETRONIC OR 68075 AMP-TAPEMATIC MACHINE DIES
26	66059-1	None	.040-.080	Blue	.830	Tin <sup>1</sup>	46222-SH 90015-LH		45306		12	90232-2
	66059-2	None	.040-.080	Blue	.830	Silver <sup>2</sup>	46222-SH 90015-LH		45306		12	90232-2
	66059-3	None	.040-.080	Blue	.830	Gold <sup>3</sup>	46222-SH 90015-LH		45306		12	90232-2
	66129-2	None	.080-.115	Black	.850	Silver <sup>2</sup>	46223-SH 90016-LH		45305		12	—
	66129-3	66129-4	.080-.115	Black	.850	Gold <sup>3</sup>	46223-SH 90016-LH		45305		12	—
24-22	42633-1	42633-4	.040-.080	Yellow	.820	Tin <sup>1</sup>	46222-SH 90015-LH		45306		12	90232-2
	42633-2	42633-5	.040-.080	Yellow	.820	Silver <sup>2</sup>	46222-SH 90015-LH		45306		12	90232-2
	42633-3	42633-6	.040-.080	Yellow	.820	Gold <sup>3</sup>	46222-SH 90015-LH		45306		12	90232-2
	66070-3	66070-4	.080-.115	Black	.850	Gold <sup>3</sup>	46223-SH 90016-LH		45305		12	—
20-18	42634-1	42634-4	.060-.100	Natural	.850	Tin <sup>1</sup>	46223-SH 90016-LH		45305		12	90304-1
	42634-2	42634-5	.060-.100	Natural	.850	Silver <sup>2</sup>	46223-SH 90016-LH		45305		12	90304-1
	42634-3	42634-6	.060-.100	Natural	.850	Gold <sup>3</sup>	46223-SH 90016-LH		45305		12	90304-1
16	42646-1	42646-4	.080-.115	Black	.840	Tin <sup>1</sup>	46223-SH 90016-LH		45305		12	90304-1
	42646-2	42646-5	.080-.115	Black	.840	Silver <sup>2</sup>	46223-SH 90016-LH		45305		12	90304-1
	42646-3	42646-6	.080-.115	Black	.840	Gold <sup>3</sup>	46223-SH 90016-LH		45305		12	90304-1

\*LH = Long handle tool. SH = Short handle tool.  
 (a) Refer to table on page 23-7.  
 (b) Refer to tooling chart on page 23-29.

PRE-INSULATED – SOLID (TAYP-AIR) PINS\*



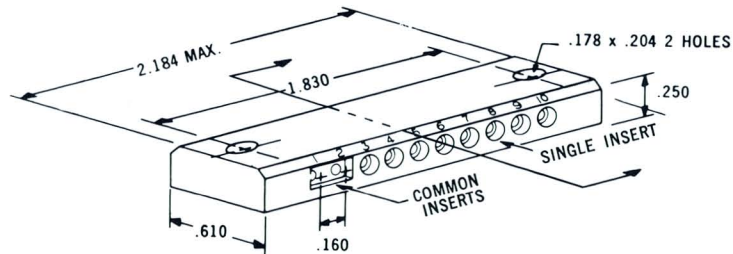
PIN INFORMATION							TOOLING INFORMATION					
WIRE SIZE	CATALOG NUMBER L.P.	CATALOG NUMBER TAPE MOUNTED	INSULATION DIA. RANGE	NYLON INSULATION COLOR CODE	OVERALL LENGTH	FINISH(a)	DOUBLE ACTION HAND TOOL*	STRAIGHT ACTION HAND TOOL	69118-1 AMP-TAPEMATIC TOOL DIE NUMBER	69365 AND 69319-1 TOOL DIE NUMBER	INSERTION TOOL CODE(b)	69875 AMP-TAPETRONIC OR 68075 AMP-TAPEMATIC MACHINE DIES
24-22	42910-1	None	.040-.090	Yellow	.735	Tin <sup>1</sup>		59480	90160-1		24	
	42910-2	None	.040-.090	Yellow	.735	Silver <sup>2</sup>		59480	90160-1		24	
	42910-3	42910-4	.040-.090	Yellow	.735	Gold <sup>3</sup>		59480	90160-1		24	
20-18	42911-1	None	.080-.115	Natural	.755	Tin <sup>1</sup>		59480	90155-1		24	
	42911-2	None	.080-.115	Natural	.755	Silver <sup>2</sup>		59480	90155-1		24	
	42911-3	42911-4	.080-.115	Natural	.755	Gold <sup>3</sup>		59480	90155-1		24	
	42911-5	42911-6	.080-.115	Natural	.755	Gold <sup>6</sup>		59480	90155-1		24	
16	42912-1	None	.080-.115	Black	.755	Tin <sup>1</sup>		59480	90155-1		24	
	42912-2	None	.080-.115	Black	.755	Silver <sup>2</sup>		59480	90155-1		24	
	42912-3	42912-4	.080-.115	Black	.755	Gold <sup>3</sup>		59480	90155-1		24	
	42912-5	42912-6	.080-.115	Black	.755	Gold <sup>6</sup>		59480	90155-1		24	

\*Material of above pins is leaded commercial bronze.

## TAPER BLOCK SECTION

**HORIZONTAL IN-LINE TYPE (10, 20, 30 and 60 CAVITIES)**  
 (Note: References under remarks column: S = Single, C = Common)  
 All block material Nylon unless otherwise indicated.

All assemblies have standard cavity identification unless otherwise noted.



SECTION TYPICAL FOR 10, 20 AND 30 POSITION BLOCKS.

### "53" SERIES

INSERT PLATING - GOLD .000030 OVER NICKEL .000040, SILVER .0002, TIN .000150

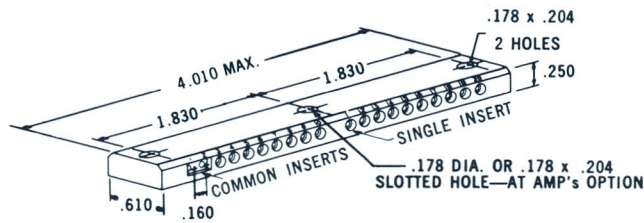
### 10 POSITION CONNECTOR BLOCK ASSEMBLY FOR "53" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS												
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK			
10 POS. SINGLE	480064	Tin														1
	581354	Tin		1		3	4	5	6	7	8					9
	582042	Tin	No Cavity Ident.													1
	480064	Silver														2
	581355	Silver				2			5							
	480064	Gold														3
	581424	Gold		1	2	3	4	5	6	7	9					8
	582042	Gold	No Cavity Ident.													
8 SINGLE— 2 COMMON	2-582455	Silver	1 to 6S, 7 to 8C, 9 & 10S	1	2	3	4	5	6	7	8	9	0			
	583339	Gold	1 & 2C, 3 to 10S	1	2	3	4	5	6	7	8	9	0			
	581648	Gold	1 to 3S, 4 & 5C, 6 to 10S													3
7 SINGLE— 3 COMMON	3-582407	Gold	1 to 3C, 4 to 10S	1	2	3	4	5	6	7	8	9	0			
6 SINGLE— 4 COMMON	582081	Gold	1 to 6S, 7 to 10C													9
6 SINGLE— 2 SETS OF 2 COMMON	1-582305	Tin	1 to 2C, 3 to 4C, 5 to 10S													9
	2-582868	Silver	1 to 3S, 4 & 5C, 6 & 7C, 8 to 10S	1	2	3	4	5	6	7	8	9	0			
	3-582305	Gold	1 to 2C, 3 to 4C, 5 to 10S	1	2	3	4	5	6	7	8	9	0			
5 SINGLE— 5 COMMON	582102	Gold	1 to 5C, 6 to 10S	1		3	4	5	6	7	8	9	0			
5 SINGLE— 3 COMMON— 2 COMMON	3-582268	Gold	1 to 3C, 4 to 5C, 6 to 10S	1	2		4	5	6	7	8	9	0			
4 SINGLE— 3 SETS OF 2 COMMON	582009	Gold	1 to 2C, 3 & 4C, 5 & 6C, 7 to 10S													9
	3-582139	Gold	1 to 2C, 3 & 4S, 5 & 6C, 7 & 8S, 9 & 10C	1	2	3	4	5	6	7	8	9	0			
	3-582961	Gold	1 to 2C, 3 & 4C, 5S, 6 to 7C, 8 to 10S	1	2	3	4	5	6	7	8	9	0			
2 SINGLE— 8 COMMON	1-582418	Tin	1 & 2S, 3 to 10C													9
	3-582418	Gold	1 to 2S, 3 to 10C													9
	3-582344	Gold	1S, 2 to 9C, 10S													9
2 SINGLE— 4 SETS OF 2 COMMON	3-582420	Gold	1 & 2C, 3S, 4 & 5C, 6S, 7 & 8C, 9 & 10C	1	2	3	4	5	6	7	8	9	0			
	3-582936	Gold	1 & 2S, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C	1	2	3	4	5	6	7	8	9	0			
1 SINGLE— 9 COMMON	581930	Gold	1 to 9C, 10S	1	2	3		5		7	8	9	0			

"53" SERIES (Continued)

10 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS									
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK
1 SINGLE— 6 COMMON— 3 COMMON	3-582266	Gold	1 to 3C, 4 to 9C, 10S	1	2		4	5	6	7	8	9	0
1 SINGLE— 3 SETS OF 3 COMMON	3-582138	Gold	1 to 3C, 4 to 6C, 7 to 9C, 10S	1		3	4	5	6	7	8	9	0
	2-582138	Silver	1 to 3C, 4 to 6C, 7 to 9C, 10S			3	4	5	6	7	8	9	0
10 COMMON	582045	Tin	No Cavity Ident.										1
	581948	Tin		1	2			5		7		9	0
	582045	Silver	No Cavity Ident.										2
	480105	Silver		1	2	3	4	5	6	7	8	9	0
	480112	Gold		1	2	3	4	5	6	7	8	9	0
	582045	Gold	No Cavity Ident.										3
	3-582197	Gold	No Cavity Ident.	1	2	3	4	5	6	7		9	0
	581952	Tin		1	2	3	4	5	6	7	8	9	0
2 SETS OF 5 COMMON	582044	Tin	No Cavity Ident.										1
	581951	Silver		1		3		5	6	7	8	9	0
	582044	Silver	No Cavity Ident.										2
	581950	Gold		1	2	3	4	5	6	7	8	9	
	582044	Gold	No Cavity Ident.										3
5 SETS OF 2 COMMON	480064	Tin											4
	581356	Tin				2							
	480064	Silver											5
	581357	Silver		1		3		5	6			8	
	582043	Silver	No Cavity Ident.										2
	480064	Gold											6
	581358	Gold		1	2		4		6		8		9



20 POSITION CONNECTOR BLOCK ASSEMBLY FOR "53" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS									
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK
20 POS. SINGLE	480065	Tin											1
	581249	Tin								6	7		9
	582037	Tin	No Cavity Ident.										1
	480065	Silver											2
	582037	Silver	No Cavity Ident.										2
	480065	Gold											3
	480076	Gold		1	2	3	4	5	6	7			9
	582037	Gold	No Cavity Ident.										3
	582498	Gold	Cavities Numbered 21 thru 40			1							2
	582498	Gold	Cavities Numbered 41 thru 60			3							
	582498	Gold	Cavities Numbered 61 thru 80			5							
	582498	Gold	Cavities Numbered 81 thru 100			7							8
	3-582842	Gold	Marked "A" thru "V"	1	2	3	4	5	6	7	8	9	0
	583638	Gold	No Cavity Ident.										1
18 SINGLE— 2 COMMON	3-582286	Gold	1 & 2C, 3 to 20S										9

### 20 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS																
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK							
16 SINGLE— 4 COMMON	3-582157	Gold	1 to 16S, 17 to 20C	1	2	3	4	5	6	7	8	9								
16 SINGLE— 2 SETS OF 2 COMMON	1-582306	Tin	1 & 2C, 3 to 18S, 19 & 20C																	9
	2-582306	Silver	Same as 1-582306																	9
	2-582454	Silver	1 to 11S, 12 & 13C, 14 & 15C, 16 to 20S	1	2	3	4	5	6	7	8	9	0							
14 SINGLE— 2 SETS OF 3 COMMON	1-582282	Tin	1 to 12S, 13 to 15C, 16 to 18C, 19 & 20S																	9
	1-582283	Tin	1 to 3C, 4 to 6C, 7 to 20S																	9
13 SINGLE— 7 COMMON	582080	Gold	1 to 13S, 14 to 20C																	9
12 SINGLE— 8 COMMON	1-583135	Tin	1 to 12S, 13 to 20C	1	2	3	4	5	6	7	8	9	0							
	2-582982	Silver	1 to 12S, 13 to 20C	1	2	3	4	5	6	7	8	9	0							
12 SINGLE— 6 COMMON— 2 COMMON	3-582274	Gold	1 to 12S, 13 to 18C, 19 & 20C	1	2	3	4	5	6	7	8	9	0							
12 SINGLE— 4 SETS OF 2 COMMON	1-582525	Tin	1 & 2C, 3 to 8S, 9 & 10C, 11 & 12C, 13 to 18S, 19 & 20C	1		3	4	5	6	7	8	9	0							
	480103	Silver	1 to 10S, 11 to 20C	1	2	3	4	5	6	7	8	9	0							
10 SINGLE— 10 COMMON	2-582453	Silver	Same as 480074	1		3	4	5	6	7	8	9	0							
	480074	Gold	1 to 10C, 11 to 20S																6	9
	480075	Gold	Same as 480103				4		6											9 0
10 SINGLE— 7 COMMON— 3 COMMON	3-582429	Gold	1 to 3C, 4 to 10C, 11 to 20S	1	2	3	4	5	6	7	8	9	0							
10 SINGLE— 2 SETS OF 5 COMMON	581878	Gold	1 to 5S, 6 to 10C, 11 to 15S, 16 to 20C	1	2	3	4			6	7	8	9							
10 SINGLE— 2 SETS OF 3 COMMON 2 SETS OF 2 COMMON	3-582850	Gold	1S, 2 to 4C, 5 & 6C, 7S, 8 to 10C, 11 & 12C, 13 to 20S	1	2	3	4	5	6	7										9 0
10 SINGLE— 5 SETS OF 2 COMMON	1-582111	Tin	1 to 10S, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C			2	3	4	5	6	7	8	9	0						
	2-582353	Silver	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 to 20S	1	2	3	4	5	6	7	8	9	0							
	3-582111	Gold	Same as 1-582111	1		3													7	9
	3-582353	Gold	Same as 2-582353			2	3	4	5	6	7	8	9	0						
8 SINGLE— 10 COMMON— 2 COMMON	2-582452	Silver	1 to 10C, 11 & 12C, 13 to 20S	1		3	4	5	6	7	8	9	0							
8 SINGLE— 7 COMMON— 5 COMMON	3-583076	Gold	1 to 5C, 6 to 13S, 14 to 20C	1	2	3	4	5	6	7	8	9	0							
8 SINGLE— 6 SETS OF 2 COMMON	582908	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 to 20S	1	2	3	4	5	6	7	8	9	0							
6 SINGLE— 2 SETS OF 7 COMMON	583209	Tin	1 to 7C, 8 to 13S, 14 to 20C	1	2	3	4	5	6	7	8	9	0							
6 SINGLE— 2 SETS OF 5 COMMON— 4 COMMON	3-582973	Gold	1 to 4S, 5 to 8C, 9 & 10S, 11 to 15C, 16 to 20C	1	2	3	4	5	6	7	8	9	0							
6 SINGLE— 7 SETS OF 2 COMMON	581900	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 to 17S, 18 & 19C, 20S	1	2	3	4	5	6	7	8	9	0							
	1-582288	Tin	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 to 16S, 17 & 18C, 19 & 20S																	9
5 SINGLE— 3 SETS OF 5 COMMON	3-582352	Gold	1 to 5C, 6 to 10C, 11 to 15C, 16 to 20S	1	2	3	4	5	6	7	8	9	0							
5 SINGLE— 3 SETS OF 3 COMMON— 3 SETS OF 2 COMMON	3-582851	Gold	1S, 2 to 4C, 5 & 6C, 7S, 8 to 10C, 11 & 12C, 13S, 14 to 16C, 17 & 18C, 19 & 20S	1	2	3	4	5	6	7										9 0
4 SINGLE— 16 COMMON	1-582357	Tin	1 & 2S, 3 to 18C, 19 & 20S	1	2	3	4	5	6	7	8	9	0							
4 SINGLE— 2 SETS OF 8 COMMON	1-583168	Tin	1 to 8C, 9 to 12S, 13 to 20C	1	2	3	4	5	6	7	8	9	0							
4 SINGLE 8 SETS OF 2 COMMON	583263	Tin	1 & 2S, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20S																	1

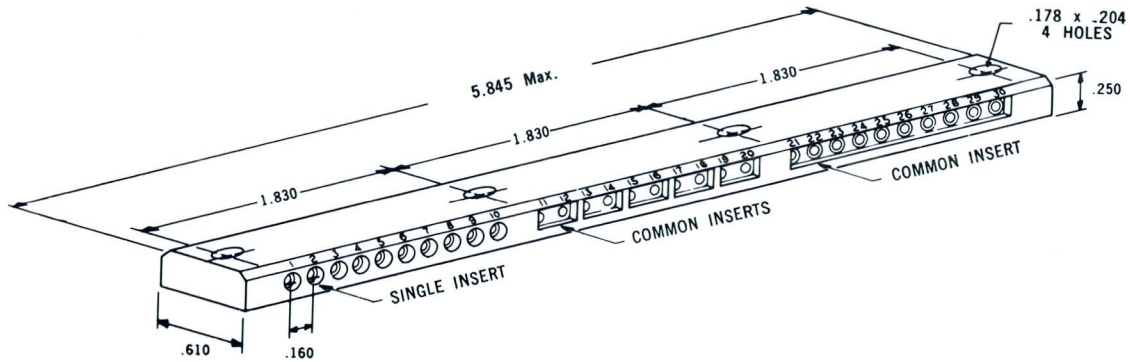
"53" SERIES (Continued)

20 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS																
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK							
2 SINGLE— 6 SETS OF 3 COMMON	2-582451	Silver	1 to 3C, 4 to 6C, 7 to 9C, 10S, 11 to 13C, 14 to 16C, 17 to 19C, 20S	1	3	4	5	6	7	8	9	0								
	581880	Gold	1 to 3C, 4 to 6C, 7 to 9C, 10S, 11 to 13C, 14 to 16C, 17 to 19C, 20S	1	2	3	4	5	6	7	8	9								
	582105	Gold	1 to 3C, 4 to 6C, 7 to 9C, 10 to 12C, 13 to 15C, 16 to 18C, 19 & 20S					4	5	6	7	8	9	0						
1 SINGLE 7 COMMON— 4 SETS OF 3 COMMON	1-582993	Tin	1S, 2 to 4C, 5 to 7C, 8 to 10C, 11 to 13C, 14 to 20C	1	2	3	4	5	6	7	8	9	0							
	581421	Tin		1	2	3	4		6	7	8	9	0							
20 COMMON	582041	Tin	No Cavity Ident.																	1
	581422	Silver		1	2	3			6	7	8	9	0							
	581423	Gold		1	2	3	4	5		7	8	9	0							
	3-582198	Gold	No Cavity Ident.	1	2	3	4	5	6	7	8	9	0							
	3-582290	Gold	1 to 11C, 12 to 20C																	9
2 SETS OF 10 COMMON	581949	Tin			2															9 0
	480104	Silver								7										9
	582040	Silver	No Cavity Ident.																	2
	480077	Gold		1	2		4	5	6	7										9 0
10 COMMON— 7 COMMON 3 COMMON	3-582132	Gold	1 to 10C, 11 to 13C, 14 to 20C	1	2	3	4	5	6	7	8	9	0							
	3-582413	Gold	1 to 3C, 4 to 10C, 11 to 20C	1	2	3	4	5	6	7	8	9	0							
10 COMMON— 2 SETS OF 5 COMMON	3-582131	Gold	1 to 10C, 11 to 15C, 16 to 20C	1	2	3	4	5	6	7	8	9	0							
10 COMMON— 4 COMMON— 2 SETS OF 3 COMMON	3-582130	Gold	1 to 10C, 11 to 14C, 15 to 17C, 18 to 20C	1	2	3	4	5	6	7	8	9	0							
10 COMMON— 5 SETS OF 2 COMMON	581110	Tin	1 to 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C																	1
	2-582153	Silver	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 to 20C																	9 0
	581110	Silver	Same as 581110-1																	2
	581110	Gold	Same as 581110-1																	3
8 COMMON— 6 COMMON— 4 COMMON— 2 COMMON	1-583002	Tin	1 to 6C, 7 to 10C, 11 & 12C, 13 to 20C	1	2	3	4	5	6	7	8	9	0							
2 SETS OF 6 COMMON 2 SETS OF 4 COMMON	3-582133	Gold	1 to 6C, 7 to 10C, 11 to 16C, 17 to 20C	1	2	3	4	5	6	7	8	9	0							
6 COMMON— 4 COMMON— 2 SETS OF 3 COMMON 2 SETS OF 2 COMMON	3-582134	Gold	1 & 2C, 3 & 4C, 5 to 10C, 11 to 13C, 14 to 16C, 17 to 20C	1	2	3	4	5	6	7	8	9								
6 COMMON— 7 SETS OF 2 COMMON	582067	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 & 14C, 15 to 20C																	9
4 SETS OF 5 COMMON	581720	Tin		1	3					7	8	9								
	582039	Tin	No Cavity Ident.																	1
	581730	Silver																		9
	582039	Silver	No Cavity Ident.																	2
	581729	Gold		1	2	3	4	5	6											9 0
2 SETS OF 5 COMMON— 2 SETS OF 4 COMMON— 2 COMMON	581879	Gold	1 to 4C, 5 to 8C, 9 to 13C, 14 to 18C, 19 to 20C			3			6	7	8	9								
5 SETS OF 4 COMMON	3-582137	Gold	1 to 4C, 5 to 8C, 9 to 12C, 13 to 16C, 17 to 20C	1	3	4	5	6	7	8	9	0								
3 SETS OF 4 COMMON— 2 SETS OF 3 COMMON— 2 COMMON	581957	Gold	1 to 4C, 5 to 8C, 9 to 10C, 11 to 13C, 14 to 16C, 17 to 20C	1	2	3	4	5	6	7	8	9	0							
2 SETS OF 4 COMMON 4 SETS OF 3 COMMON	3-582342	Gold	1 to 3C, 4 to 6C, 7 to 10C, 11 to 13C, 14 to 16C, 17 to 20C																	9
4 COMMON— 8 SETS OF 2 COMMON	3-582514	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 to 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C	1	3	4	5	6	7	8	9	0								

### 20 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS									
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK
10 SETS OF 2 COMMON	480065	Tin											4
	581646	Tin											9
	582038	Tin	No Cavity Ident.										1
	480065	Silver											5
	480065	Gold											6
	480090	Gold											8



## "53" SERIES (Continued)

### 30 POSITION CONNECTOR BLOCK ASSEMBLY FOR "53" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS										
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK	
30 SINGLE	581918	Tin		2				5	6			9	0	
	581919	Silver				3	4		6			9		
	480107	Gold		1	2	3	4	5	6	7	8	9	0	
	3-582924	Gold	Cavities Numbered 31 thru 60	1	2	3	4	5			7	8	9	0
26 SINGLE— 4 COMMON	583305	Gold	1 to 4C, 5 to 30S			2	3	4	5	6	7	8	9	0
	3-582759	Gold	1 to 26S, 27 to 30C	1	2	3	4	5	6	7	8	9	0	
26 SINGLE— 2 SETS OF 2 COMMON	2-582448	Silver	1 to 20S, 21 & 22C, 23 & 24C, 25 to 30S	1	2	3	4	5	6	7	8	9	0	
24 SINGLE— 3 SETS OF 2 COMMON	2-582449	Silver	1 to 20S, 21 & 22C, 23 & 24C, 25 & 26S, 27 & 28C, 29 & 30S	1		3	4	5	6	7	8	9		
	3-582405	Gold	1 to 8S, 9 & 10C, 11S, 12 & 13C, 14 to 16S, 17 & 18C, 19 to 30S	1	2	3	4	5	6	7	8	9	0	
20 SINGLE— 10 COMMON	3-582644	Gold	1 to 20S, 21 to 30C	1	2	3	4	5	6			9		
20 SINGLE— 2 SETS OF 5 COMMON	2-582446	Silver	1 to 20S, 21 to 25C, 26 to 30C	1	2	3	4	5			7	8	9	0
18 SINGLE— 6 SETS OF 2 COMMON	2-582450	Silver	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 to 20S, 21 & 22C, 23 to 30S	1	2	3	4	5	6	7	8	9	0	
	3-582145	Gold	1 & 2C, 3S, 4 & 5C, 6 to 10S, 11 & 12C, 13S, 14 & 15C, 16 to 20S, 21 & 22C, 23S, 24 & 25C, 26 to 30S		2								9	

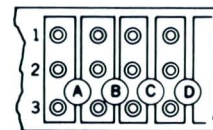
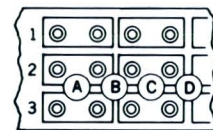
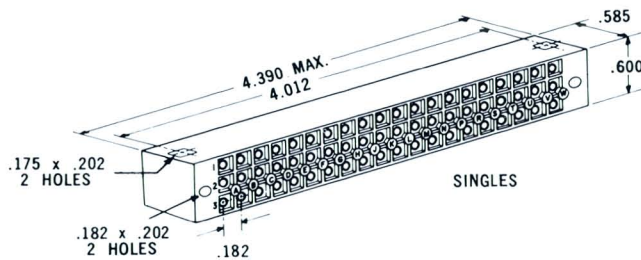
## "53" SERIES (Continued)

## 30 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS											
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK		
15 SINGLE— 10 COMMON— 5 COMMON	3-582144	Gold	1 to 10C, 11 to 15C, 16 to 30S		2										9
14 SINGLE— 2 SETS OF 3 COMMON	3-582194	Gold	1 to 12S, 13 to 15C, 16 to 18C, 19 to 30S		2		4	5	6	7				9	0
13 SINGLE— 3 COMMON— 7 SETS OF 2 COMMON	3-582623	Gold	1 to 8S, 9 & 10C, 11 & 12C, 13 & 14S, 15 & 16C, 17 to 19C, 20S, 21 & 22C, 23 & 24C, 25 & 26C, 27 & 28C, 29 & 30S	1	2	3		5		7	8	9	0		
12 SINGLE— 9 SETS OF 2 COMMON	3-582406	Gold	1 to 3S, 4 & 5C, 6 & 7C, 8 & 9C, 10 & 11C, 12 & 13C, 14 & 15C, 16 & 17C, 18 & 19C, 20 & 21C, 22 to 30S	1		3	4	5	6		8	9	0		
10 SINGLE— 2 SETS OF 10 COMMON	2-582442	Silver	1 to 10C, 11 to 20C, 21 to 30S	1		3	4	5	6	7	8	9	0		
10 SINGLE— 10 COMMON— 5 SETS OF 2 COMMON	3-582944	Gold	1 to 10S, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C, 21 to 30C	1	2	3	4	5	6	7	8	9	0		
9 SINGLE— 10 COMMON— 7 COMMON— 4 COMMON	3-582265	Gold	1 to 4C, 5 to 11C, 12 to 17S, 18 to 27C, 28 to 30S	1	2	3	4	5	6	7	8	9	0		
6 SINGLE— 2 SETS OF 10 COMMON 2 SETS OF 2 COMMON	2-582443	Silver	1 to 10C, 11 & 12C, 13 to 18S, 19 & 20C, 21 to 30C	1		3	4	5	6	7	8	9	0		
3 SINGLE— 9 SETS OF 3 COMMON	2-582441	Silver	1 to 3C, 4 to 6C, 7 to 9C, 10S, 11 to 13C, 14 to 16C, 17 & 19C, 20S, 21 to 23C, 24 to 26C, 27 to 29C, 30S	1		3	4	5	6	7	8	9			
2 SINGLE— 1 SET OF 2 COMMON— 1 SET OF 6 COMMON— 2 SETS OF 10 COMMON	2-582444	Silver	1 to 10C, 11 & 12C, 13 & 14S, 15 to 20C, 21 to 30C	1		3	4	5	6	7	8	9	0		
2 SINGLE 14 SETS OF 2 COMMON	583484	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C, 21 & 22C, 23 & 24C, 25 & 26C, 27 & 28C, 29 & 30S												9
30 COMMON	1-582972	Tin		1	2	3	4	5	6	7	8	9	0		
	2-582972	Silver		1		4	5	6	7	8	9				
	582059	Gold		1	3									9	0
20 COMMON— 10 COMMON	3-583295	Gold	1 to 20C, 21 to 30C	1	2	3	4	5	6	7	8	9	0		
2 SETS OF 15 COMMON	3-582932	Gold						5	6		8	9	0		
2 SETS OF 12 COMMON 2 SETS OF 3 COMMON	3-582195	Gold	1 to 12C, 13 to 15C, 16 to 18C, 19 to 30C	1	2	3	4	5	6	7	8	9	0		
3 SETS OF 10 COMMON	1-582233	Tin		1	2	3	4	5	6	7	8	9	0		
	2-582233	Silver			2	3	4	5	6	7	8	9	0		
	480109	Gold		1	2	3		5	6		8	0	9		
2 SETS OF 10 COMMON— 2 SETS OF 5 COMMON	3-582136	Gold	1 to 10C, 11 to 20C, 21 to 25C, 26 to 30C		2	3	4		6	7		9	0		
10 COMMON— 10 SETS OF 2 COMMON	1-582755	Tin	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C, 21 to 30C	1	2	3	4	5	6	7	8	9			
	2-582755	Silver	Same as 1-582755	1	2	3	4	5	6	7	8	9	0		
	3-582755	Gold	Same as 1-582755	1	2	3		5	6	7	8	9	0		
	3-582645	Gold	1 to 20 (2C), 21 to 30C		2	3	4			7	8	9			
2 SETS OF 8 COMMON— 2 SETS OF 7 COMMON	3-582848	Gold	1 to 7C, 8 to 14C, 15 to 22C, 23 to 30C	1	2	3	4	5	6	7	8	9	0		
5 SETS OF 6 COMMON	3-582800	Gold	1 to 6C, 7 to 12C, 13 to 18C, 19 to 24C, 25 to 30C	1	2	3	4	5		7	8	9	0		
6 SETS OF 5 COMMON	1-582104	Tin								6	7	8	9	0	
	582104	Gold			2	3	4	5	6	7	8	9	0		
2 SETS OF 5 COMMON— 10 SETS OF 2 COMMON	2-582447	Silver	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 & 14C, 15 & 16C, 17 & 18C, 19 & 20C, 21 to 25C, 26 to 30C	1	2	3	4	5	6	7	8	9	0		

### 30 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS									
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK
6 SETS OF 4 COMMON— 3 SETS OF 2 COMMON	3-582659	Gold	1 to 4C, 5 to 8C, 9 & 10C, 11 to 14C, 15 to 18C, 19 & 20C, 21 to 24C, 25 to 28C, 29 & 30C	1	2	3	4	5	6	7	8	9	0
	3-582343	Gold	1 to 3C, 4 to 6C, 7 to 9C, 10 to 12C, 13 to 15C, 16 to 18C, 19 to 21C, 22 to 24C, 25 to 27C, 28 to 30C	1	2		4	5	6	7		9	0
2 SETS OF 3 COMMON— 12 SETS OF 2 COMMON	3-582196	Gold	1 & 2C, 3 & 4C, 5 & 6C, 7 & 8C, 9 & 10C, 11 & 12C, 13 to 15C, 16 to 18C, 19 & 20C, 21 & 22C, 23 & 24C, 25 & 26C, 27 & 28C, 29 & 30C	1	2	3	4	5	6	7	8	9	0
	1-582366	Tin				3	4	5		7		9	0
15 SETS OF 2 COMMON	2-582445	Silver		1	2	3	4	5		7	8	9	0
	480108	Gold		1	2	3	4	5	6	7	8	9	0
	583281	Gold	Cavities Numbered 31 thru 60	1	2	3	4	5	6	7	8	9	0



### 60 POSITION CONNECTOR BLOCK ASSEMBLY FOR "53" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS										
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK	
60 SINGLE	581173	Tin												1
	1-582219	Tin	Stamped 1 Thru 20 instead of "A" Thru "W"		2									9
	581173	Silver												2
	2-582181	Silver	No Cavity Ident.											9
	581174	Gold	Polyethylene											3
	3-582181	Gold	No Cavity Ident.											9
	3-582219	Gold	Stamped 1 Thru 20 instead of "A" Thru "W"	1	2	3	4	5	6	7	8	9	0	
	581173	Gold												3
	3-582415	Gold		1	2	3	4	5	6	7	8			0
	40 SINGLE— 20 COMMON	3-582411	Gold	Rows 1 & 3S, Row 2C		2	3		5	6	7	8	9	0
530014		Gold	Rows 1 & 2S, Row 3C											1
20 SINGLE— 2 SETS OF 20 COMMON	2-583181	Silver	Same as 582030	1	2	3	4	5	6	7	8	9	0	
	582030	Gold	Row 1 & 3, 20C, Row 2, 20S											3
	3-582440	Gold	Row 1C, Row 2C, Row 3S	1	2	3	4			6	7	8	9	
20 SINGLE— 20 SETS OF 2 COMMON	3-582886	Gold	Row 3S, Row 1 Dual C, Row 2 Dual C	1										9
60 COMMON	3-582398	Gold	Stamped with Nos. 1 thru 20 instead of A thru W								6			9
	3-582217	Gold			2			5		7				9
36 COMMON— 8 SETS OF 3 COMMON	3-582460	Gold	Cavities A thru MC Cavities N thru WC	1	2	3	4	5	6	7	8	9	0	



"53" SERIES (Continued)

60 POSITION CONNECTOR BLOCK ASSEMBLY (Continued)

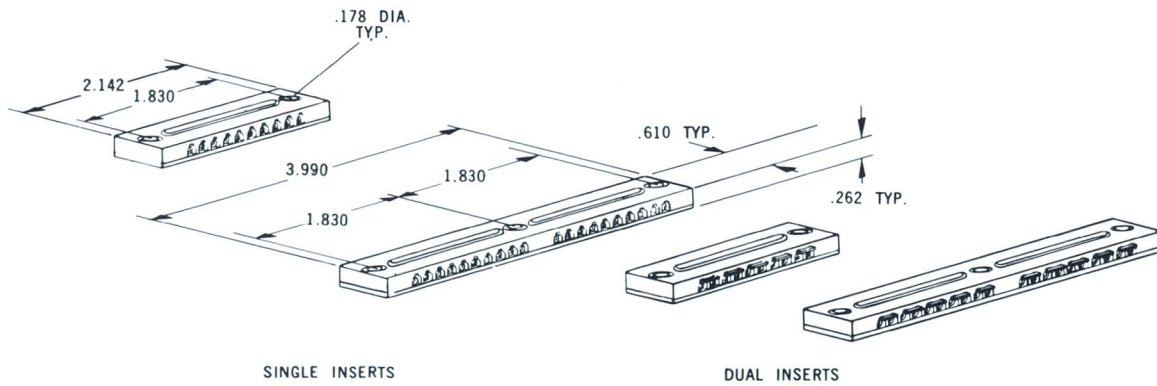
FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS												
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK			
3 SETS OF 20 COMMON	581992	Tin	No Cavity Ident.													1
	1-582150	Tin														9
	581992	Silver	No Cavity Ident.													2
	2-582150	Silver														9
	581992	Gold	No Cavity Ident.													3
	3-582150	Gold														9
	3-582416	Gold	No Cavity Ident.	1	3	5	7	8	0							
	3-582640	Gold		1	2	3		6								0
6 SETS OF 10 COMMON	3-582656	Gold	Stamped with Nos. 1 to 20 instead of A thru W	1	2	3	4	5	6	7	8					0
	1-582363	Tin			2	4	5	6	7	8	9	0				
10 SETS OF 3 COMMON	3-582363	Gold		1	2	4	5	6	7	8	9	0				
	3-582845	Gold	Row A to K 3C Row 1-2-3, A thru K common to themselves	1	2	3	4	5	6	7	8	9	0			
10 SETS OF 6 COMMON	3-582753	Gold		1		4	5		7	8	9	0				
12 SETS OF 5 COMMON	581993	Tin	No Cavity Ident.													1
	1-582362	Tin														9
	581993	Silver	No Cavity Ident.													2
	581993	Gold	No Cavity Ident.													3
	2-582362	Gold														9
15 SETS OF 4 COMMON	583313	Tin		1	2	3	4	5	6	7	8	9	0			
	583564	Gold														1
20 SETS OF 3 COMMON	581342	Tin														1
	1-582349	Tin		1	3	4	5		7	8		0				
	581342	Silver														2
	2-582349	Silver				3	5		7	8		0				
	581342	Gold														3
	3-582182	Gold	No Cavity Ident.													9
	3-582225	Gold	No Cavity Ident. Polyethylene													9
	3-582521	Gold	Stamped 1 thru 20 instead of "A" thru "W"	1	2	3	4	5	6	7	8	9	0			
30 SETS OF 2 COMMON	3-582349	Gold			2	3	4	5	6							0
	581177	Tin														1
	581178	Tin	Polyethylene													1
	1-582401	Tin		1	3	4	5		7			0				
	581177	Silver														2
	2-582401	Silver		1	3	4			7			0				
	581177	Gold														3
	581178	Gold	Polyethylene													3
3-582401	Gold		1	2	3	4	5	6	7	8						

60 POSITION CONNECTOR BLOCK ASSEMBLY (.312 CENTERS BETWEEN ROWS)

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS												
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK			
60 SINGLE	582632	Silver	Polyethylene													1
	3-583192	Gold	Polyethylene													9
20 SETS OF 3 COMMON	582631	Silver	Polyethylene													1
	3-583118	Gold	Polyethylene													9



TWO-PIECE BLOCKS WITH INSERTS



"53" SERIES TWO-PIECE BLOCKS (NYLON) FOR "53" SERIES TAPER PINS

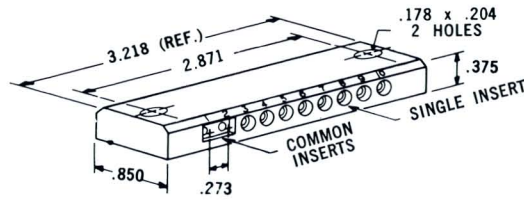
PART NUMBER	NO. OF CAVITIES	LENGTH	WIDTH	THICKNESS	REMARKS
395001	10	2 <sup>9</sup> / <sub>64</sub>	3 <sup>9</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>16</sub>	Cover
395002	20	3 <sup>31</sup> / <sub>32</sub>	3 <sup>9</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>16</sub>	Cover
495001	10	2 <sup>9</sup> / <sub>64</sub>	3 <sup>9</sup> / <sub>64</sub>	1 <sup>3</sup> / <sub>64</sub>	Housing
595001	20	3 <sup>31</sup> / <sub>32</sub>	3 <sup>9</sup> / <sub>64</sub>	1 <sup>3</sup> / <sub>64</sub>	Housing



"53" SERIES INSERTS (FOR TWO-PIECE BLOCKS)

CATALOG NUMBER	BASIC MATERIAL	PLATING MATERIAL(a)	TYPE	CATALOG NUMBER	BASIC MATERIAL	PLATING MATERIAL(a)	TYPE
41633	Brass	Tin <sup>1</sup>	Single Formed	42614-1	Bery. Copper	Tin <sup>1</sup>	Dual Formed
41754	Brass	Silver <sup>2</sup>	Single Formed	42614-2	Bery. Copper	Silver <sup>2</sup>	Dual Formed
41855	Brass	Gold <sup>3</sup>	Single Formed	42614-3	Bery. Copper	Gold <sup>3</sup>	Dual Formed
42172-1	Bery. Copper	Tin <sup>1</sup>	Single Formed	42614-4	Bery. Copper	None	Dual Formed
42172-2	Bery. Copper	Silver <sup>2</sup>	Single Formed	41849	Brass	Gold <sup>7</sup>	Single Formed
42172-3	Bery. Copper	Gold <sup>3</sup>	Single Formed	42668-1	Bery. Copper	Tin <sup>1</sup>	Single Formed
42613-1	Brass	Tin <sup>1</sup>	Dual Formed	42668-2	Bery. Copper	Silver <sup>2</sup>	Single Formed
42613-2	Brass	Silver <sup>2</sup>	Dual Formed	42668-3	Bery. Copper	Gold <sup>3</sup>	Single Formed
42613-3	Brass	Gold <sup>3</sup>	Dual Formed				

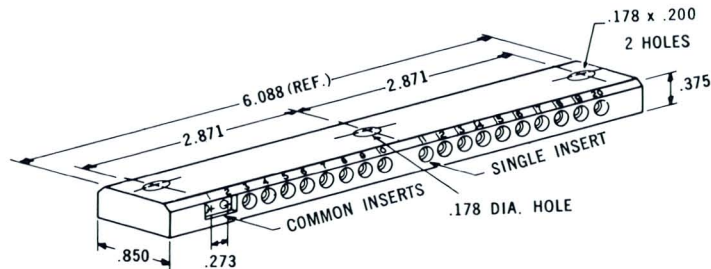
(a) Refer to table on page 23-7.



### "88" SERIES

#### 10 POSITION CONNECTOR BLOCK ASSEMBLY FOR "88" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS											
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK		
10 SINGLE	581346	Tin	10S		2			5		7	8	9			
	581347	Silver	10S		1	3			6	7	8	9	0		
	581348	Gold	10S				3	4	5	6	7		9	0	
10 COMMON	1-582155	Tin	1 (10C)		1	2	3	4	5	6	7	8	9	0	
	2-582155	Silver	1 (10C)		1	2	3	4	5	6	7	8	9	0	
	3-582155	Gold	1 (10C)				3	4			7		9	0	
2 SETS OF 5 COMMON	3-582430	Gold	2 (5C)		1	2	3	4	5	6	7	8	9	0	
5 SETS OF 2 COMMON	1-582154	Tin	5 (2C)		1	2	3	4	5	6	7	8	9	0	
	2-582154	Silver	5 (2C)		1	2		4	5	6	7	8	9	0	
	3-582154	Gold	5 (2C)					4	5	6	7	8	9	0	
	3-582332	Gold	No Cavity Ident.												9



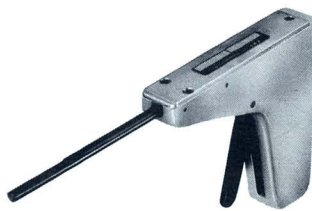
#### 20 POSITION CONNECTOR BLOCK ASSEMBLY FOR "88" SERIES TAPER PINS

FUNCTION	CATALOG NUMBER	INSERT PLATING	REMARKS	SUFFIX DASH NUMBERS & COLORS											
				BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GREY	NATURAL	BLACK		
20 SINGLE	581349	Tin	20S All Single		2			4	5		7	8	9		
	581350	Silver	20S All Single		2	3	4			6	7	8	9	0	
	581351	Gold	20S All Single		1	3		5	6			8	9	0	
2 SETS OF 10 COMMON	3-582515	Gold	2 (10C)												9
4 SETS OF 5 COMMON	1-582334	Tin	1 to 5C, 6 to 10C, 11 to 15C, 16 to 20C				3	4		6	7	8	9		
5 SETS OF 4 COMMON	3-582291	Gold	1 to 4C, 5 to 8C, 9 to 12C, 13 to 16C, 17 to 20C												9
10 SETS OF 2 COMMON	1-582263	Tin	10 (2C), 10 Duals		1	2	3	4	5	6	7	8	9	0	
	2-582263	Silver	10 (2C), 10 Duals		1	2	3	4	5	6	7	8	9	0	
	3-582263	Gold	10 (2C), 10 Duals		1	3	4	5	6	7				9	0



INSERTION TOOLS

CODE	STANDARD PART NO.	PULL TEST PART NO.	APPLICATION
2	380306-2	380310-2	Receptacles in Rigid Material
3	380306-3	380310-3	Receptacles in Rigid Material
5	380306-5	811167-1	Receptacles onto Tabs and onto Pins
8	380306-8	380310-8	Receptacles in Rigid Material
9	1-380306-0		Receptacles onto Tabs
10		497652-1	Patchcord Programming Systems Only
11		497652-2	Patchcord Programming Systems Only
12		497652-3	Patchcord Programming Systems Only
13	811034-1		Receptacles in Rigid Material
14	811034-2		Receptacles in Rigid Material
15	811034-3		Receptacles in Rigid Material
16	811034-4		Receptacles in Rigid Material
24	380430-2	380431-2	Receptacles in Rigid Material
25	380430-3	380431-3	Receptacles in Rigid Material
34		380310-9	Receptacles in Rigid Material



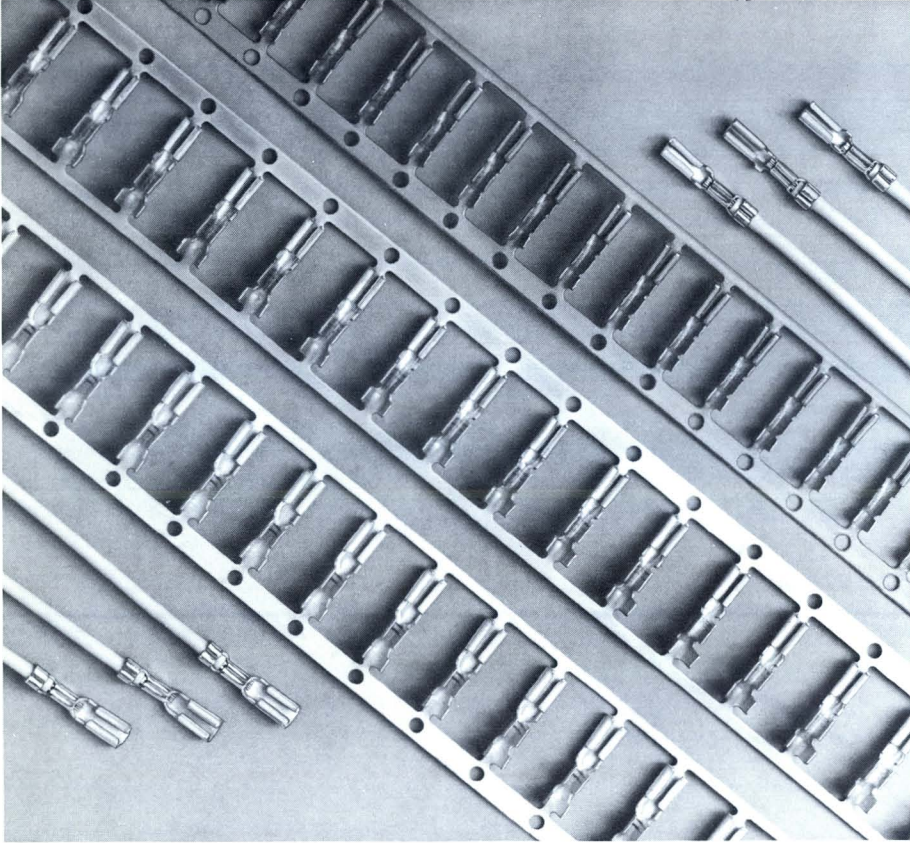
EXTRACTION TOOL

USE TOOL NO. 91012-1 TO REMOVE THESE PINS								USE TOOL NO. 91012-2 TO REMOVE THESE PINS			
PIN NO.	TYPE	PIN NO.	TYPE	PIN NO.	TYPE	PIN NO.	TYPE	PIN NO.	TYPE	PIN NO.	TYPE
41222	Formed	41863	Formed	42647	Solid	66050	Solid	66074	Solid	41278	Formed
41223	Formed	41864	Formed	42910	Solid	66051	Solid	66075	Solid	41496	Formed
41647	Formed	41865	Formed	42911	Solid	66052	Solid	66076	Solid	41640	Formed
41648	Formed	41991	Formed	42912	Solid	66053	Solid	66122	Solid	41646	Formed
41649	Formed	42229	Formed	42914	Solid	66058	Solid	66123	Solid	41862	Formed
41650	Formed	42273	Formed	42915	Solid	66059	Solid	66124	Solid	42600	Formed
41651	Formed	42574	Solid	42916	Solid	66069	Solid	66125	Solid	42762	Formed
41652	Formed	42575	Solid	42927	Solid	66070	Solid	66129	Solid	66113	Formed
41656	Formed	42631	Solid	60066	Formed	66071	Solid	66186	Formed	66091	Formed
41657	Formed	42632	Solid	60183	Formed	66072	Solid	66266	Formed	66184	Formed
41658	Formed	42637	Solid	60184	Formed	66073	Solid	66268	Formed	66353	Formed



REAMER AND GAUGE

REAMER NUMBER	USED FOR	GAUGE NUMBER	USED FOR
9-378798-0	"53" Series Taper Pin Receptacles.	9-391476-0	"53" Series Taper Pin Receptacles.
9-378842-0	"88" Series Taper Pin Receptacles.	9-378427-0	"88" Series Taper Pin Receptacles.



Precision formed taper tab receptacles are available to mate with tabs having front end dimensions of .078" and .098". These receptacles are available in strip form, reel fed for high speed automatic machine termination or in loose piece for hand tool termination for limited production and maintenance and repair.

Manufactured from fine grade brass AMP taper tab receptacles are provided in choice of tin, silver or gold plating, with or without insulation support. The basic termination is accomplished by the AMP "F" crimp that wraps the two sides of the wire barrel around the conductor strands and penetrates into the center to form a homogeneous mass.

This type termination exhibits excellent electrical and mechanical characteristics, showing a high tensile strength that is vibration resistant.

To terminate small tensile cord the 78 series is available in an insulation piercing type. During the crimping operation, two perpendicular lances are driven through the wire insulation to make positive contact with the conductor.

This eliminates the tedious pre-stripping operation and greatly increases production rates. Since tensile characteristics vary depending on the type of wire insulation, it is recommended that samples of your wire be submitted to AMP Incorporated for evaluation.

## AMP Taper Tab Receptacles, 78 and 98 Series

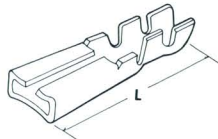
### Features

- Precision formed, reel-fed for high speed automatic machine application
- "F" crimp, positive termination
- Insulation piercing crimp available for tensile cord—eliminates pre-stripping (78 series only)
- Choice of insulation support and non-insulation support
- Tin, silver or gold plated brass available
- 78 series accepts wire sizes 30 solid, 24-22 and 20-18 AWG
- 98 series accepts wire sizes 24-22, 24-20 and 20-18 AWG

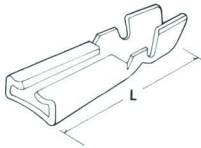
**Note:** All dimensions in inches. Specifications subject to change. Consult AMP Incorporated for latest design specifications.

Specifications

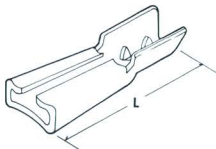
Taper Tab Receptacles



Non-Insulation Support

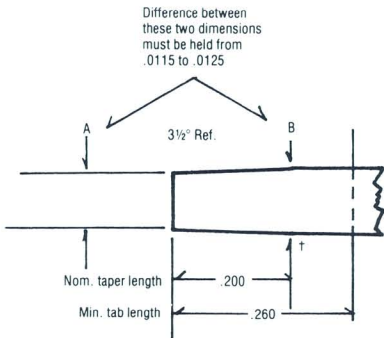


Insulation Support



Insulation Piercing

Taper Tab Specifications



† Intersection must be clean, no offset and no increase in taper (both sides) over this length.

- 78 Series
- A = .078 ± .001
- B = .090 ± .001
- Tab thickness—.023/.016
- 98 Series
- A = .098 ± .001
- B = .110 ± .001
- Tab thickness—.025/.016

Wire Size	Ins. Dia. Range	L Overall Length	Finish*	Strip Form Part No.		Loose Piece Part No.	Hand Tool Part No.	Insertion Tool Part No.
				For use with Standard Applicator	For use with Miniature Applicator			

78 Series

Non-Insulation Support

20-18		.428	Tin	41631		41783	47216	1-380306-0
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Insulation Support

30 Solid	.040/.060	.500	Tin	42763-1			46459	380306-5
24-22	.030/.050	.500	Tin	41355	42765-1	41700**	90072	380306-5
24-22	.030/.050	.500	Gold	41868		41878**	90072	380306-5
24-22	.040/.060	.500	Tin	60015-1	60898-1	60351-1**	90072	380306-5
20-18	.058/.085	.555	Tin	41629	60980-1	41781-1	47566	1-380306-0
20-18	.058/.085	.555	Silver	41756	41756-1	41871-1**	47566	1-380306-0
20-18	.058/.085	.555	Gold	41913		41916-1	47566	1-380306-0
20-18	.085/.105	.555	Tin	41630	41630-1	41782	47043	1-380306-0
20-18	.085/.105	.555	Gold	41914		41917	47043	1-380306-0

Insulation Piercing

Tinsel	.065/.078	.500	Tin	42519-1		42703-1	47150	811034-3
Tinsel	.065/.075	.366	Gold	60442-1			47150	811034-3

98 Series

Non-Insulation Support

24-20		.422	Tin	41335		41970	46564	380306-5
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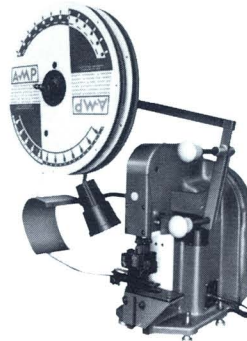
Insulation Support

24-22	.040/.060	.562	Tin	60512-1	60891-1	60707-1	46564	380306-5
20-18	.058/.085	.562	Tin	60513-1	60513-2	60708-1	47043	1-380306-0

\*Material: Brass; Finish: Tin—.0002, Silver—.0002, Gold—.00003 gold over .00005 nickel

\*\* These receptacles can be applied with pneumatic tool #69365 (Die #690012) or pneumatic tool #69319-1 (Die #690012)

Tooling



AMP-O-LECTRIC Automatic Machine

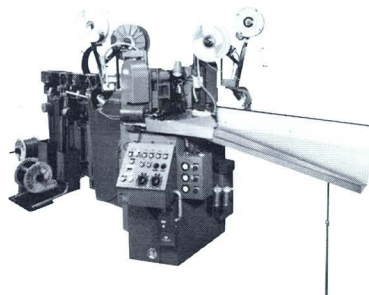
Bench-mounted, electrically operated from any standard factory outlet. Actuated by foot-pedal or by electronic switch in crimping area which is tripped when wire is in proper crimping position. Designed to install a wide range of AMP Terminals on a wider range of wire sizes.

Production Speed: Up to 4,000 terminations per hour.

AMPOMATOR Automatic Machine

AMPOMATOR Automatic Machine is the ultimate in automatic lead-making equipment. Lead lengths can vary from 1.62" to 190" and no operator wire feed is necessary. Machine, electrically operated, cuts wires to proper length, strips one or both ends and crimps terminals to either or both ends... automatically.

Production Speed: Up to 5700 finished leads per hour-11,400 terminations, one on each end of lead, per hour on short leads 3" to 10".



AMP Side-Feed Miniature Applicator

Can be used in the AMPOMATOR or AMP-O-LECTRIC machine. Provides quick change-over from one terminal

to another. All adjustments are made rapidly cutting production down time. Crimping height on contact barrel for a given wire size is simply "dialed in."

