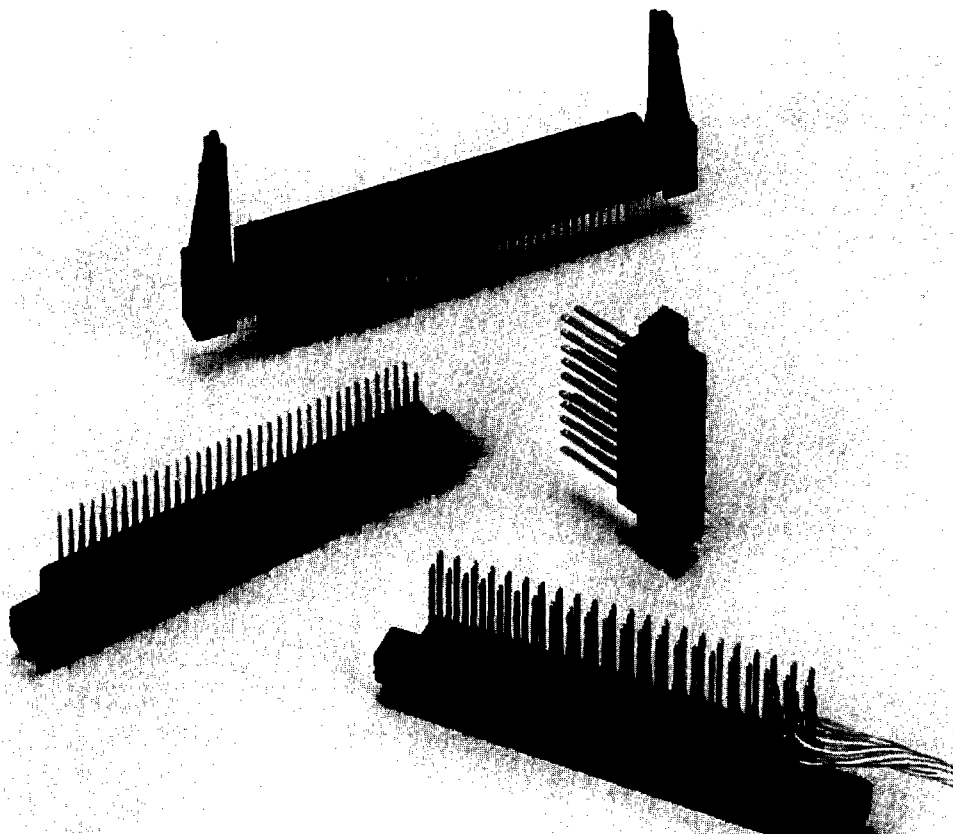


TERMI-TWIST Connectors

Features

- Locking shoulders firmly secure contact in housing
- Adaptability of connectors to the automatic AMP M-TACT Wiring Head assures greatest economy and production efficiency.
- One-piece contacts are bifurcated for redundancy and are easily removed with simple extraction tool
- Choice of finishes includes varied thicknesses of gold-over-nickel plating plus selective plating on contact tip for longer life and greater economy
- Housing materials include glass filled phenolic and diallyl phthalate
- Housings loaded in one or both sides and available with polarizing keys
- Connector sizes provide a wide selection of contact positions—contacts on .100 [2.54], .125 [3.18], .156 [3.96] and .200 [5.08] centers
- Post configurations compatible with TERMI-POINT clip technique, wrap-type terminations or solder applications
- Recognized under Component Program of Underwriters Laboratories Inc. File No. E-28476



AMP TERMI-TWIST Connectors are reliable, low cost, one-piece contact, pc card edge connectors designed to meet your requirements for frame, chassis or panel mounting with either automatic or manual wiring. These versatile printed circuit connectors are the basis of one of the industry's most complete series of sizes, configurations, finishes and materials. This adaptability enables you to match your specific Interconnection System Application Requirements (ISAR) to the proper connector combinations.

The protected entry housings accommodate pc boards from .054 to .071 [1.37 to 1.8] thick and are available with a wide range of dual readout positions and featured contact centerlines. Additional features of the housings include the availability of polarizing keys, marking styles and alternate mounts.

Contacts are firmly secured in the housings by locking shoulders which are formed when the post ends of the contacts are twisted 90° during assembly. The contact area is bifurcated for redundancy and smoother insertion and withdrawal of uneven boards. This design feature, complemented by the availability of AMP proven gold-over-nickel plating, assures excellent performance, both electrically and mechanically. All connectors are furnished with one-piece contacts, easily removed for servicing or replacement by the use of a simple extraction tool.

AMP TERMI-TWIST Connectors offer the most economical combination of reliability and product efficiency for packaging and interconnecting pc boards. Used in a variety of panel assembly arrangements, these connectors can be terminated automatically by the accurate and

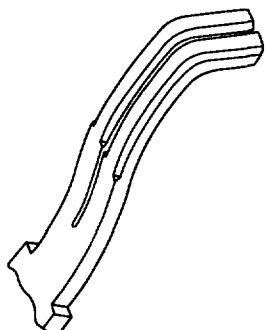
highly efficient AMP M-TACT Wiring Head. This head, when mounted to a numerically controlled machine, is capable of applying 1000 programmed wires to an array of connector posts in a one hour period. For limited production, you may select any one of the several equally reliable manual to semi-automatic TERMI-POINT hand tools. These connectors are also compatible with wrap-type wiring.

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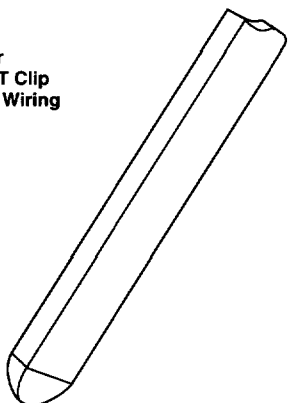
AMP, AMP M-TACT, TERMI-TWIST, TERMI-POINT—Trademarks

Connector Features

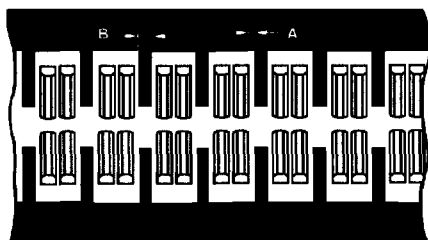
Contact Bifurcation



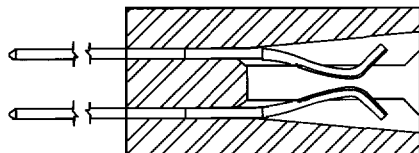
**Post for
TERMI-POINT Clip
or Wrap-Type Wiring**



Contact Cavity



PC Board Entry



Contacts:

The unique bifurcation is an important design feature that provides redundant contact points, and therefore, enhances the reliability of the connection. Contacts are removable by using a simple extraction tool.

The chamfered edge provides a smooth surface for minimum board wear and uniform insertion and extraction forces.

The tapered beam design provides a more precise range of forces over the specified range of pc board thickness and resists stress relaxation in operating environments.

Posts:

Post quality and tolerances are maintained to insure high performance of the TERMI-POINT clip or wrap-type termination.

Contact Cavity:

The narrow gap between bifurcation is designed to provide greater side clearance (A) with maximum barrier thickness (B) for greater strength and dielectric qualities.

PC Board Entry:

The recessed contact provides protected entry which prevents contact collapsing or stubbing during board insertion.

A deep chamfer is utilized on the housing to provide easy lead-in which minimizes board damage and facilitates insertion of wrapped pc boards.

Operating Parameters:

All AMP TERMI-TWIST Connectors are designed to accept pc boards per MIL-STD-275 and to meet the requirements of AMP Product Specifications 108-14007 (commercial) and 108-14009 (military). Some of these operating parameters include:

- Insulation Resistance
- Dielectric Withstanding Voltage
- Contact Resistance
- Temperature Cycling
- Vibration and Shock
- Durability and Humidity

Operating Temperature:

Diallyl phthalate and phenolic housings— -65°C to $+125^{\circ}\text{C}$

Polyester housings— -55°C to $+105^{\circ}\text{C}$

Contact Rating:

.022 x .036 [0.56 x 0.91]—
3 amps (continuous)

.031 x .062 [0.79 x 1.57]—
5 amps (continuous)

Contact Engaging and Separation Force:

Opposing contact pairs—
16 oz. [4.45 N] (max.)
engaging force with .070
[1.78] thick gauge; 1 oz.
[0.278 N] (min.) separation
force with .054 [1.37] thick
gauge.

Test Reports

(Available on Request):

Type	Connector Center Line	Test Report Number
Military*	.100 x .200 2.54 x 5.08	GPR575-74
Military*	.156 x .188 3.96 x 4.78	GPR575-64
Commercial**	.156 x .188 3.96 x 4.78	GPR575-116
Military†	.156 x .188 3.96 x 4.78	110-14002

*Diallyl phthalate housing material

**Phenolic housing material

†Polyester Type PBT housing material

For further information request the following AMP publications:

Contact Replacement
Tool—408-2559

Polarizing Key—408-2152

Panel and Datum Plate
Specification—CM 2172

Centerline Spacing: .100 x .200 [2.54 x 5.08] (Post Size—.022 x .036 [0.56 x 0.91])

Material and Finish:

Housing Materials—Diallyl phthalate, type SDG-F (blue) or phenolic, type MFH (black) per MIL-M-14.

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold flash over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

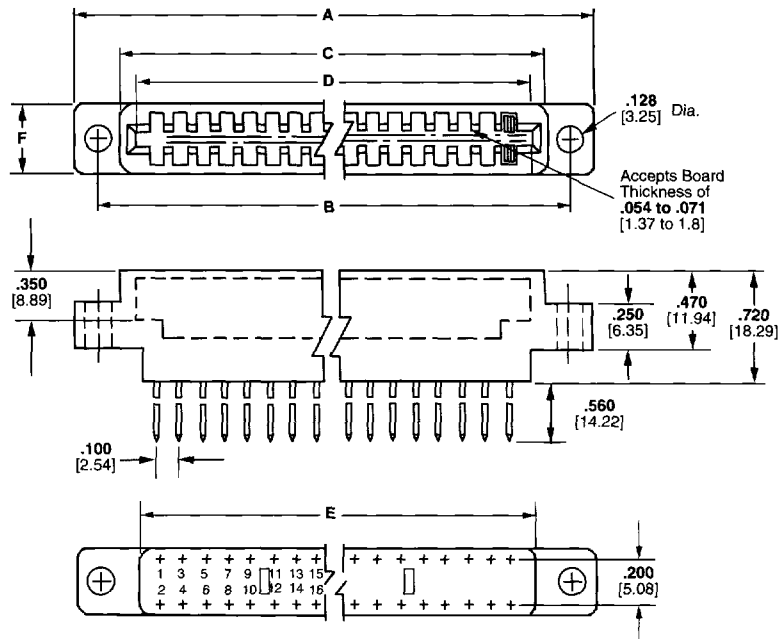
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67342; contact replacement type, Part Number 67343. See page 10.

Replacement Contact—Part Number 1-67763-8.

Contact Replacement Tool—Part Number 265831-2. See page 12.

Card Guides—See page 10.



Note: Housing marking style 46 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions						Part Numbers	
		A	B	C	D	E	F	Diallyl Phthalate Housing .000030 [0.00076] Selective Gold Plating	Phenolic Housing
15	46	2.34 59.44	2.075 52.71	1.76 44.7	1.605 40.77	1.76 44.7	.37 9.4	1-67880-1	2-67880-4*
18	46	2.64 67.06	2.375 60.33	2.06 52.32	1.905 48.39	2.06 52.32	.37 9.4	1-67880-2	2-67880-5*
22	46	3.04 77.22	2.775 70.49	2.46 62.48	2.305 58.55	2.46 62.48	.37 9.4	1-67880-3	2-67880-6*
25	46	3.34 84.84	3.075 78.11	2.76 70.1	2.605 66.17	2.76 70.1	.37 9.4	1-67880-4	2-67880-7*
28	46	3.64 92.46	3.375 85.73	3.06 77.72	2.905 73.79	3.06 77.72	.37 9.4	1-67880-5	2-67880-8*
30	46	3.84 97.54	3.575 90.81	3.26 82.8	3.105 78.87	3.26 82.8	.37 9.4	1-67880-6	2-67880-9*
31	46	3.94 100.08	3.675 93.35	3.36 85.34	3.205 81.41	3.36 85.34	.37 9.4	1-67880-7	3-67880-0*
34	46	4.24 107.7	3.975 100.97	3.66 92.96	3.505 89.03	3.66 92.96	.37 9.4	1-67880-8	3-67880-1*
34	None	4.28 108.71	4.030 102.36	3.76 95.5	3.596 91.34	3.488 88.6	.37 8.89	—	1-67105-3**
35	46	4.34 110.24	4.075 103.51	3.76 95.5	3.605 91.57	3.76 95.5	.37 9.4	1-67880-9	3-67880-2*
40	46	4.84 122.94	4.575 116.21	4.26 108.2	4.105 104.27	4.26 108.2	.37 9.4	2-67880-0	3-67880-3*
43	46	5.14 130.56	4.875 123.83	4.56 115.82	4.405 111.89	4.56 115.82	.37 9.4	2-67880-1	3-67880-4*
50	46	5.84 148.34	5.575 141.61	5.26 133.6	5.105 129.67	5.26 133.6	.37 9.4	2-67880-2	3-67880-5*
60	46	6.84 173.74	6.575 167.01	6.26 159	6.105 155.07	6.26 159	.37 9.4	2-67880-3	3-67880-6*

*.000015 [0.00038] gold plating

** .000030 [0.00076] gold plating

†Marking styles—page 11

Centerline Spacing: .125 x .200 [3.18 x 5.08]
(Post Size—.022 x .036 [0.56 x 0.91])

Material and Finish:

Housing Materials—Diallyl phthalate, type SDG-F (blue) or phenolic, type MFH (black) per MIL-M-14.

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold flash over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

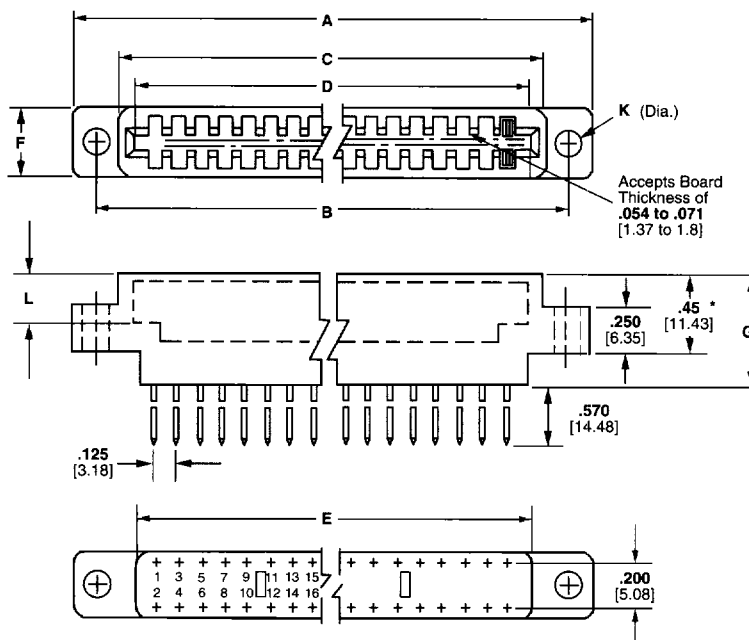
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67654-1; contact replacement type, Part Number 67372-1. See page 10.

Replacement Contact—Part Number 67621-2.

Contact Replacement Tool—Part Number 265831-2. See page 12.

Card Guides—See page 10.



*Part Number 67180-5 is .430 [10.92]

Note: Housing marking style 46 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions										Part Numbers	
												Diallyl Phthalate Housing .000030 [0.00076] Selective Gold Plating	Phenolic Housing
		A	B	C	D	E	F	G	K	L			
12	46	2.125 53.98	1.875 47.63	1.625 41.28	1.502 38.15	1.625 41.28	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-2	1-67782-3*	
12	18P	2.125 53.98	1.875 47.63	1.625 41.28	1.502 38.15	1.625 41.28	.38 9.7	.72 18.29	.142 3.61	.345 8.76	—	67708-1**	
15	46	2.500 63.5	2.250 57.15	2.000 50.8	1.877 47.68	2.000 50.8	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-3	1-67782-4*	
17	22	2.806 71.27	2.606 66.19	2.346 59.59	2.186 55.52	2.346 59.59	.36 9.14	.60 15.24	.136 3.45	.350 8.89	—	67180-5**	
18	46	2.875 73.03	2.625 66.68	2.375 60.33	2.252 57.2	2.375 60.33	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-4	1-67782-5*	
22	46	3.375 85.73	3.125 79.38	2.875 73.03	2.752 69.9	2.875 73.03	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-5	1-67782-6*	
28	46	4.125 104.78	3.875 98.43	3.625 92.08	3.502 88.95	3.625 92.08	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-6	1-67782-7*	
30	46	4.375 111.13	4.125 104.78	3.875 98.43	3.752 95.3	3.875 98.43	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-7	1-67782-8*	
31	46	4.500 114.3	4.250 107.95	4.000 101.6	3.877 98.48	4.000 101.6	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-8	1-67782-9*	
36	46	5.125 130.18	4.875 123.83	4.625 117.48	4.502 114.35	4.625 117.48	.38 9.7	.72 18.29	.128 3.25	.345 8.76	67782-9	2-67782-0*	
40	46	5.625 142.88	5.375 136.53	5.125 130.18	5.002 127.05	5.125 130.18	.38 9.7	.72 18.29	.128 3.25	.345 8.76	1-67782-0	2-67782-1*	
43	46	6.000 152.4	5.750 146.05	5.500 139.7	5.377 136.58	5.500 139.7	.38 9.7	.72 18.29	.128 3.25	.354 8.76	1-67782-1	2-67782-2*	
50	46	6.875 174.63	6.625 168.28	6.375 161.93	6.252 158.8	6.375 161.93	.38 9.7	.72 18.29	.128 3.25	.345 8.76	1-67782-2	2-67782-3*	

*.000015 [0.00038] gold plating

** .000030 [0.00076] gold plating

†Marking styles—page 11

Centerline Spacing: .125 x .200 [3.18 x 5.08] (Post Size—.031 x .062 [0.79 x 1.57])

Material and Finish:

Housing Materials—Diallyl phthalate, type SDG-F (blue) or phenolic, type MFH (black) per MIL-M-14.

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold flash over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

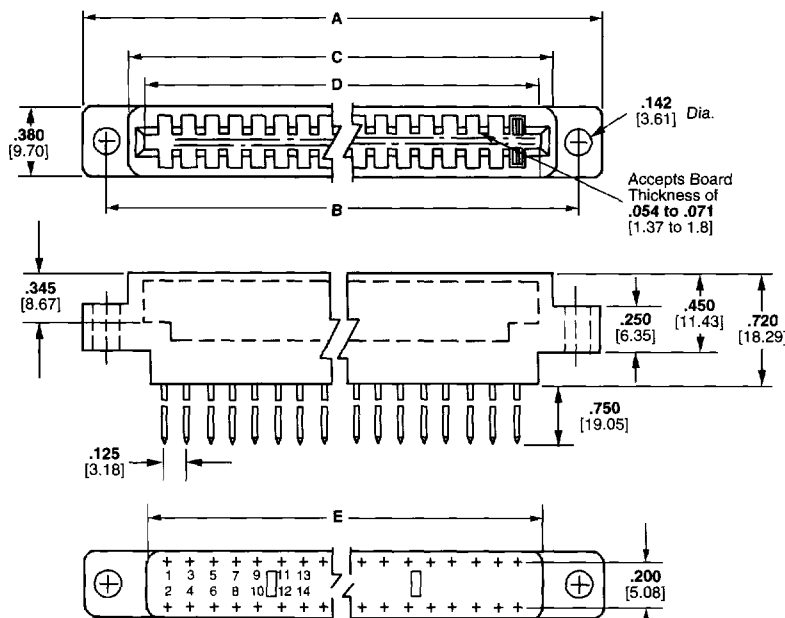
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67654-1; contact replacement type, Part Number 67372-1. See page 10.

Replacement Contact—Part Number 67603-3.

Contact Replacement Tool—Part Number 265831-3. See page 12.

Card Guides—See page 10.



Note: Housing marking style 46 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions					Part Numbers	
		A	B	C	D	E	Diallyl Phthalate Housing .000030 [0.00076] Selective Gold Plating	Phenolic Housing .000015 [0.00038] Gold Plating
12	46	2.125 53.98	1.875 47.63	1.625 41.28	1.502 38.15	1.625 41.28	67952-4	1-67952-5
15	46	2.500 63.5	2.250 57.15	2.000 50.8	1.877 47.68	2.000 50.8	67952-5	1-67952-6
18	46	2.875 73.03	2.625 66.68	2.375 60.33	2.252 57.2	2.375 60.33	67952-6	1-67952-7
22	46	3.375 85.73	3.125 79.38	2.875 73.03	2.752 69.9	2.875 73.03	67952-7	1-67952-8
28	46	4.125 104.78	3.875 98.43	3.625 92.08	3.502 88.95	3.625 92.08	67952-8	1-67952-9
30	46	4.375 111.13	4.125 104.78	3.875 98.43	3.752 95.3	3.875 98.43	67952-9	2-67952-0
31	46	4.500 114.3	4.250 107.95	4.000 101.6	3.877 98.48	4.000 101.6	1-67952-0	2-67952-1
36	46	5.125 130.18	4.875 123.83	4.625 117.48	4.502 114.35	4.625 117.48	1-67952-1	2-67952-2
40	46	5.625 142.88	5.375 136.53	5.125 130.18	5.002 127.05	5.125 130.18	1-67952-2	2-67952-3
43	46	6.000 152.4	5.750 146.05	5.500 139.7	5.377 136.58	5.500 139.7	1-67952-3	2-67952-4
50	46	6.875 174.63	6.625 168.28	6.375 161.93	6.252 158.8	6.375 161.93	1-67952-4	2-67952-5

† Marking styles—page 11

Centerline Spacing: .156 x .188 [3.96 x 4.78] (Post Size—.022 x .036 [0.56 x 0.91])

Material and Finish:

Housing Materials—Diallyl phthalate, type SDG-F (blue) or phenolic, type MFH (black) per MIL-M-14.

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold flash over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

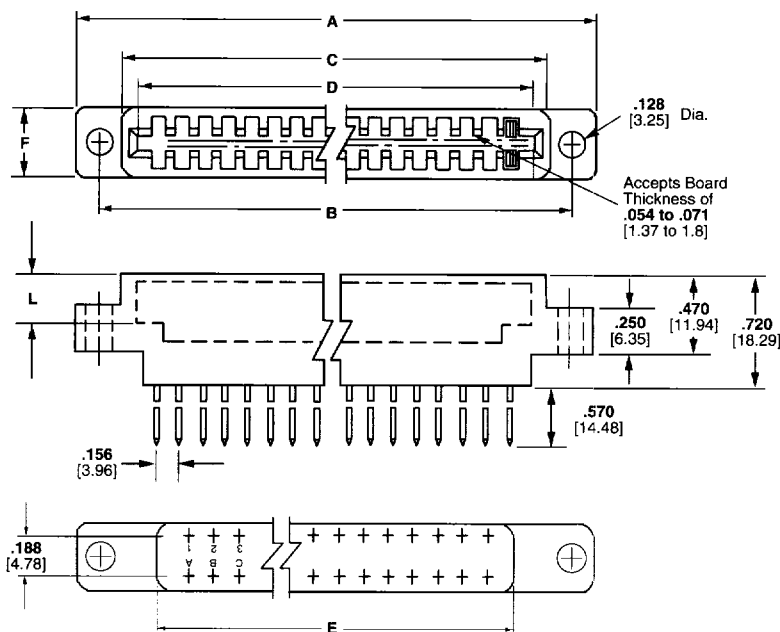
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67704-4; contact replacement type, Part Number 67372. See page 10.

Replacement Contact—Part Number 67698-9.

Contact Replacement Tool—Part Number 265831-1. See page 12.

Card Guides—See page 10.



Note: Housing marking style 45 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions							Part Numbers	
		A	B	C	D	E	F	L	Diallyl Phthalate Housing .000030 [0.00076] Selective Gold Plating	Phenolic Housing
10	45	2.41 61.21	2.158 54.81	1.89 48.01	1.724 43.79	1.62 41.15	.35 8.89	.350 8.89	67686-2	1-67686-2*
15	45	3.19 81.03	2.938 74.63	2.67 67.81	2.504 63.6	2.40 60.96	.35 8.89	.350 8.89	67686-3	1-67686-3*
15	2	3.187 80.45	2.938 74.63	2.656 67.46	2.504 63.6	2.38 60.45	.35 8.89	.325 8.26	67745-1	67745-2**
18	45	3.66 92.96	3.406 86.51	3.14 79.76	2.972 75.49	2.86 72.64	.35 8.89	.350 8.89	67686-4	1-67686-4*
18	1	3.65 92.71	3.406 86.51	3.136 79.65	2.972 75.49	2.864 72.75	.345 8.76	.350 8.89	67746-1	67746-2**
22	45	4.28 108.71	4.030 102.36	3.76 95.5	3.596 91.34	3.49 88.65	.35 8.89	.350 8.89	67686-5	1-67686-5*
22	12	4.28 108.71	4.030 102.36	3.76 95.5	3.596 91.34	3.488 88.6	.35 8.89	.350 8.89	67747-1	67747-2**
25	45	4.82 122.43	4.498 114.25	4.18 106.17	4.064 103.23	3.97 100.84	.44 11.18	.350 8.89	67686-6	1-67686-6*
28	45	5.29 134.37	4.966 126.14	4.65 118.11	4.532 115.11	4.44 112.78	.44 11.18	.350 8.89	67686-7	1-67686-7*
30	45	5.60 142.24	5.278 134.06	4.96 125.98	4.844 123.04	4.75 120.65	.44 11.18	.350 8.89	67686-8	1-67686-8*
32	45	5.91 150.11	5.590 141.99	5.27 133.86	5.156 130.96	5.06 128.52	.44 11.18	.350 8.89	67686-9	1-67686-9*
36	45	6.54 166.12	6.214 157.84	5.90 149.86	5.780 146.81	5.68 144.27	.44 11.18	.350 8.89	1-67686-0	2-67686-0*
43	45	7.63 193.8	7.306 185.58	6.99 177.55	6.872 174.55	6.78 172.21	.44 11.18	.350 8.89	1-67686-1	2-67686-1*

*.000015 [0.00038] gold plating

** .000030 [0.00076] gold plating

†Marking styles—page 11

Centerline Spacing: .156 x .188 [3.96 x 4.78] (Post Size—.022 x .036 [0.56 x 0.91]) (Continued)

Material and Finish:

Housing Materials—Polyester, type, PBT (green).

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

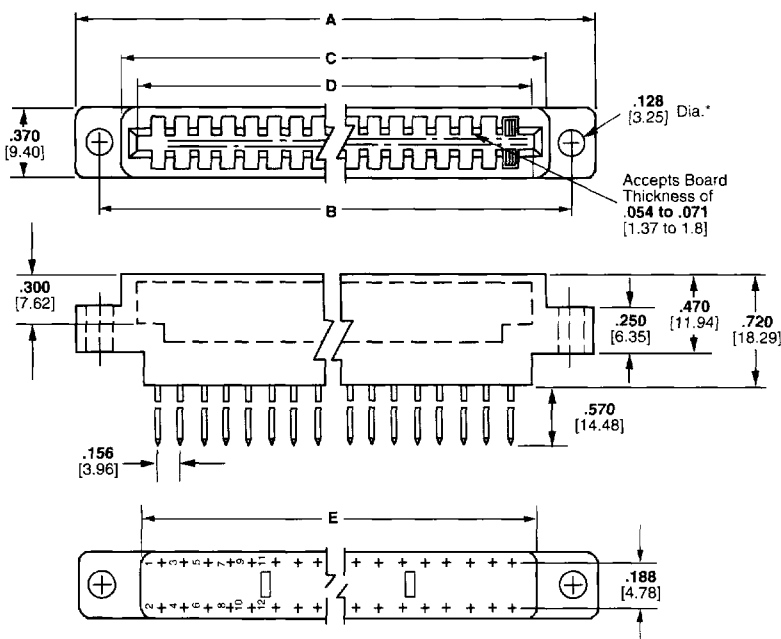
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67611-6; contact replacement type, Part Number 67372. See page 10.

Replacement Contact—Part Number 1-67698-0.

Contact Replacement Tool—Part Number 265831-2. See page 12.

Card Guides—See page 10.



*Part No. Series 67988 has 4-40 UNC-2B threaded inserts.

Note: Housing marking style 44 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions					Part Numbers			
		A	B	C	D	E	Without Threaded Inserts		With Threaded Inserts	
							.000015 [0.00038] Gold Plating	.000030 [0.00076] Gold Plating	.000015 [0.00038] Gold Plating	.000030 [0.00076] Gold Plating
6	44	1.784 45.31	1.534 38.96	1.264 32.11	1.100 27.94	.992 25.2	67971-1	2-67971-1	67988-1	2-67988-1
10	44	2.408 61.16	2.158 54.81	1.888 47.96	1.724 43.79	1.616 41.05	67971-2	2-67971-2	67988-2	2-67988-2
15	44	3.188 80.98	2.938 74.63	2.668 67.77	2.504 63.6	2.396 60.86	67971-3	2-67971-3	67988-3	2-67988-3
18	44	3.656 92.86	3.406 86.51	3.136 79.65	2.972 75.49	2.864 72.75	67971-4	2-67971-4	67988-4	2-67988-4
22	44	4.280 108.71	4.030 102.36	3.760 95.5	3.596 91.34	3.488 88.6	67971-5	2-67971-5	67988-5	2-67988-5
25	44	4.748 120.6	4.498 114.25	4.228 107.39	4.064 103.23	3.956 100.48	67971-6	2-67971-6	67988-6	2-67988-6
28	44	5.216 132.49	4.966 126.14	4.696 119.28	4.532 115.11	4.424 112.37	67971-7	2-67971-7	67988-7	2-67988-7
30	44	5.528 140.41	5.278 134.06	5.008 127.2	4.844 123.04	4.736 120.29	67971-8	2-67971-8	67988-8	2-67988-8
32	44	5.840 148.34	5.590 141.99	5.320 135.13	5.156 130.96	5.048 128.22	67971-9	2-67971-9	67988-9	2-67988-9
36	44	6.464 164.19	6.214 157.84	5.944 150.98	5.780 146.81	5.672 144.07	1-67971-0	3-67971-0	1-67988-0	3-67988-0
43	44	7.556 191.92	7.306 185.57	7.036 178.71	6.872 174.55	6.764 171.81	1-67971-1	3-67971-1	1-67988-1	3-67988-1

†Marking styles—page 11

Centerline Spacing: .156 x .188 [3.96 x 4.78] (Post Size—.031 x .062 [0.79 x 1.57])

Material and Finish:

Housing Materials—Diallyl phthalate, type SDG-F (blue) or phenolic, type MFH (black) per MIL-M-14.

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold flash over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

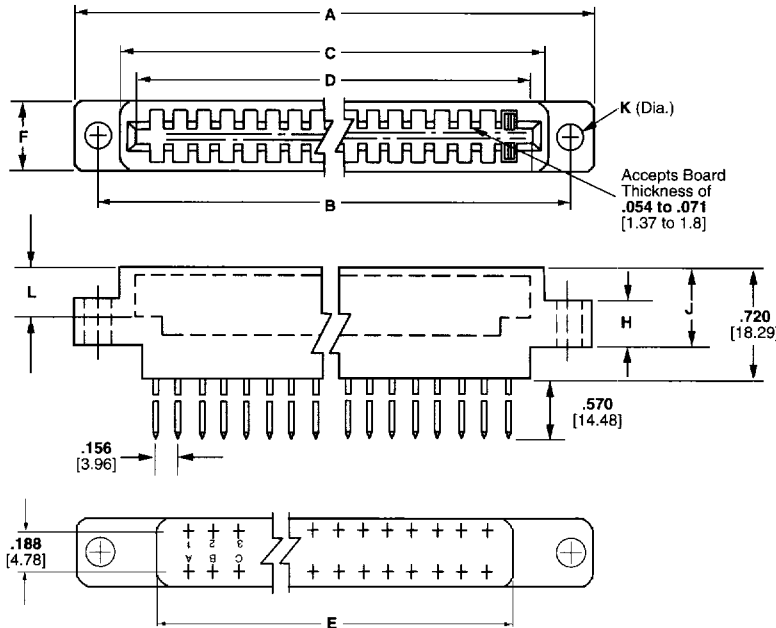
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67611-6; contact replacement type, Part Number 67372. See page 10.

Replacement Contact—Part Number 7-67018-5.

Contact Replacement Tool—Part Number 265831-3. See page 12.

Card Guides—See page 10.



Note: Housing marking style 45 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions										Part Numbers	
		A	B	C	D	E	F	H	J	K	L	Diallyl Phthalate Housing .000030 [0.00076] Selective Gold Plating	Phenolic Housing
10	45	2.41 61.21	2.158 54.81	1.89 48.01	1.724 43.79	1.62 41.15	.35 8.89	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-2	1-67824-2*
15	45	3.19 81.03	2.938 74.63	2.67 67.82	2.504 63.6	2.40 60.96	.35 8.89	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-3	1-67824-3*
15	2	3.187 80.95	2.938 74.63	2.656 67.46	2.504 63.6	2.380 60.45	.35 8.89	.25 6.35	.466 11.84	.128 3.25	.325 8.26	67054	67054-1**
18	45	3.66 92.96	3.406 86.51	3.14 79.76	2.972 75.49	2.86 72.64	.35 8.89	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-4	1-67824-4*
18	1	3.65 92.71	3.406 86.51	3.136 79.65	2.972 75.49	2.864 72.75	.345 8.76	.25 6.35	.466 11.84	.128 3.25	.345 8.76	67074	67074-9**
22	45	4.28 108.71	4.030 102.36	3.76 95.5	3.596 91.34	3.49 87.88	.35 8.89	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-5	1-67824-5*
22	12	4.28 108.71	4.030 102.36	3.76 95.5	3.596 91.34	3.488 88.6	.35 8.89	.25 6.35	.466 11.84	.128† 3.25	.350 8.89	1-67031-0	1-67031-5*
25	45	4.82 122.43	4.498 114.25	4.18 106.17	4.064 103.23	3.97 100.84	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-6	1-67824-6*
25	33P	4.908 124.66	4.586 116.48	4.268 108.41	4.064 103.23	3.956 100.48	.437 11.1	.29 7.37	.455 11.56	.178 4.52	.350 8.89	—	67824-1**
28	45	5.29 134.37	4.966 126.14	4.65 118.11	4.532 115.11	4.44 112.78	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-7	1-67824-7*
28	38	5.289 134.34	4.966 126.14	4.648 118.06	4.532 115.11	4.436 112.67	.437 11.1	.25 6.35	.466 11.84	.125 3.18	.350 8.89	—	67790-2**
30	45	5.60 142.24	5.278 134.06	4.96 125.98	4.844 123.04	4.75 120.65	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-8	1-67824-8*
30	8P	5.688 144.48	5.366 136.3	5.048 128.22	4.844 123.04	4.735 120.27	.437 11.1	.29 7.37	.455 11.56	.178 4.52	.350 8.89	—	67759-4**
32	45	5.91 150.11	5.590 141.99	5.27 133.86	5.156 130.96	5.06 128.52	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	67824-9	1-67824-9*
32	34P	6.370 161.8	5.936 150.77	5.296 134.52	5.136 130.45	5.076 128.9	.437 11.1	.25 6.35	.466 11.84	.187 4.75	.350 8.89	—	67860-2**
36	45	6.54 166.12	6.214 157.84	5.90 149.86	5.780 146.81	5.68 144.27	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	1-67824-0	2-67824-0*
36	32P	6.537 166.04	6.214 157.84	5.896 149.76	5.780 146.81	5.684 144.37	.437 11.1	.25 6.35	.466 11.84	.178 4.52	.350 8.89	67552-5	67552-6**
43	45	7.63 193.8	7.306 185.57	6.99 177.55	6.872 174.55	6.78 172.21	.44 11.18	.25 6.35	.47 11.94	.128 3.25	.350 8.89	1-67824-1	2-67824-1*
43	21	7.629 193.78	7.306 185.57	6.988 177.5	6.827 174.55	6.776 172.11	.437 11.1	.25 6.35	.466 11.84	.178 4.52	.350 8.89	—	67822-1**

†.170 [4.32] for Part Number 1-67031-0 only

‡Marking styles—page 11

*.000015 [0.00038] gold plating

** .000030 [0.00076] gold plating

Centerline Spacing: .156 x .188 [3.96 x 4.78] (Post Size—.031 x .062 [0.79 x 1.57]) (Continued)

Material and Finish:

Housing Materials—Polyester, type, PBT (green).

Contact Material—Phosphor bronze per QQ-B-750.

Contact Plating—Gold over .000100 [0.0025] min. nickel on post area. (See table below for plating thickness on contact area.)

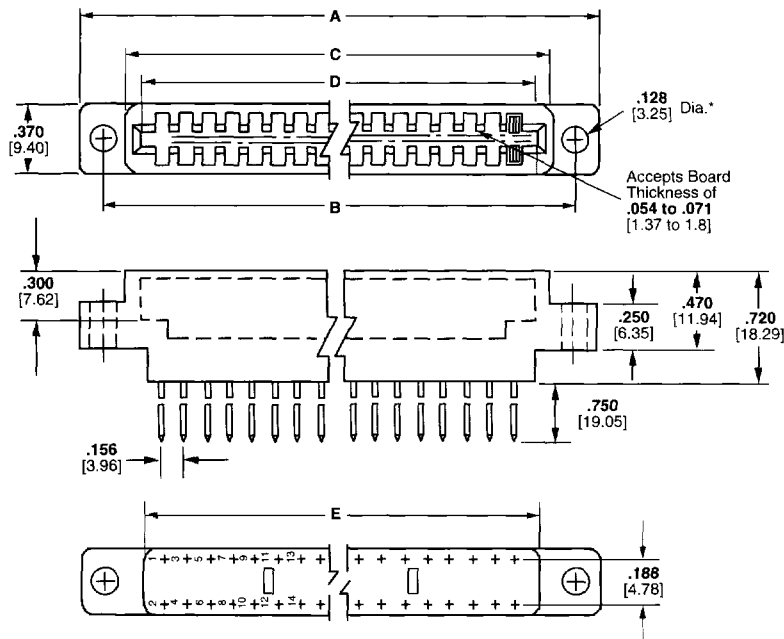
Gold plating per MIL-G-45204, Type II, nickel plating per QQ-N-290.

Polarizing Key—Nylon material inter-contact type, Part Number 67611-6; contact replacement type, Part Number 67372. See page 10.

Replacement Contact—Part Number 67018-4.

Contact Replacement Tool—Part Number 265831-3. See page 12.

Card Guides—See page 10.



*Part No. Series 67993 has 4-40 UNC-2B threaded inserts.

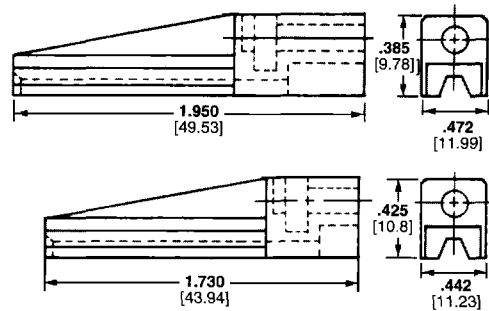
Note: Housing marking style 44 shown. For TERMI-POINT Tooling see page 12.

No. of Dual Positions	Housing Marking Style†	Dimensions					Part Numbers			
		A	B	C	D	E	Without Threaded Insert		With Threaded Insert	
							.000015 [0.00038] Gold Plating	.000030 [0.00076] Gold Plating	.000015 [0.00038] Gold Plating	.000030 [0.00076] Gold Plating
6	44	1.784 45.31	1.534 38.96	1.264 32.11	1.100 27.94	.992 25.2	67986-1	2-67986-1	67993-1	2-67993-1
10	44	2.408 61.16	2.158 54.81	1.888 47.96	1.724 43.79	1.616 41.05	67986-2	2-67986-2	67993-2	2-67993-2
15	44	3.188 80.98	2.938 74.63	2.668 67.77	2.504 63.6	2.396 60.86	67986-3	2-67986-3	67993-3	2-67993-3
18	44	3.656 92.86	3.406 86.51	3.136 79.65	2.972 75.49	2.864 72.75	67986-4	2-67986-4	67993-4	2-67993-4
22	44	4.280 108.71	4.030 102.36	3.760 95.5	3.596 91.34	3.488 88.6	67986-5	2-67986-5	67993-5	2-67993-5
25	44	4.748 120.6	4.498 114.25	4.228 107.39	4.064 103.23	3.956 100.48	67986-6	2-67986-6	67993-6	2-67993-6
28	44	5.216 132.49	4.966 126.14	4.696 119.28	4.532 115.11	4.424 112.37	67986-7	2-67986-7	67993-7	2-67993-7
30	44	5.528 140.41	5.278 134.06	5.008 127.2	4.844 123.04	4.736 120.29	67986-8	2-67986-8	67993-8	2-67993-8
32	44	5.840 148.34	5.590 141.99	5.320 135.13	5.156 130.96	5.048 128.22	67986-9	2-67986-9	67993-9	2-67993-9
36	44	6.464 164.19	6.214 157.84	5.944 150.98	5.780 146.81	5.672 144.07	1-67986-0	3-67986-0	1-67993-0	3-67993-0
43	44	7.556 191.92	7.306 185.57	7.036 178.71	6.872 174.55	6.764 171.81	1-67986-1	3-67986-1	1-67993-1	3-67993-1

†Marking styles—page 11

Accessory and Wiring Specifications

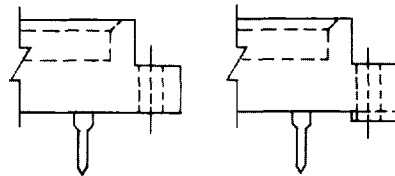
Card Guides



Part No. 67764-1 (Black)
Part No. 67764-2 (Blue)
Glass-filled Nylon Material

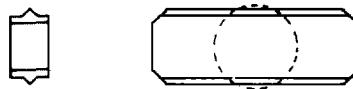
Part No. 67762-1 (Blue)
Part No. 67762-2 (Black)
Glass-filled Nylon Material

Alternate Mounting Styles



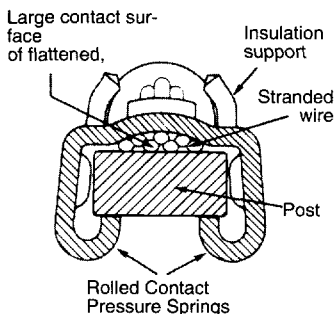
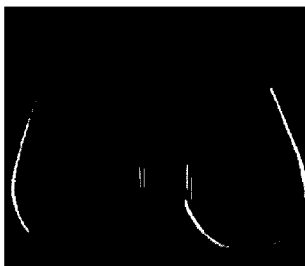
Alternate mounting styles are available with flush or offset mounting ears and threaded inserts. Contact AMP Incorporated.

Typical Polarizing Key



Also see AMP Instruction Sheet 408-2152.

TERMI-POINT Tool and Clip Specifications



The Technique

Physically, the TERMI-POINT clip termination consists of a wire, solid or stranded, connected to a rectangular phosphor bronze clip and retained under sustained pressure. Mechanical energy is stored in the clip in the form of elastic stresses which are generated when the clip and wire are applied to the post. In essence, it is a compressed spring which maintains a continual force between the wire and the post, even under extreme environmental conditions.

The clip and wire are applied simultaneously to the post by means of tool-

ing, either hand-held or mounted on a numerically-controlled machine. In actual operation of the tool, the wire is stripped of insulation, pre-formed and applied to the post under the clip. During this installation cycle, wire and post surfaces are mechanically cleaned to establish large contact surfaces.

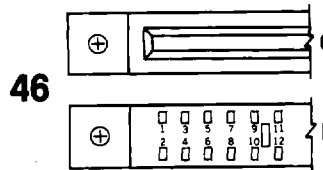
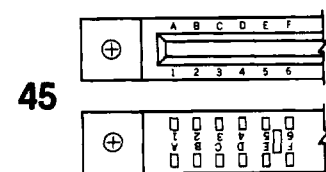
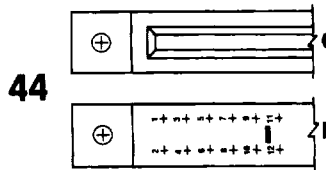
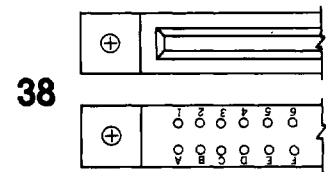
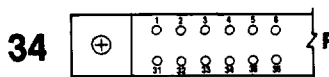
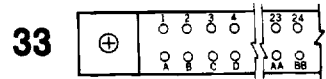
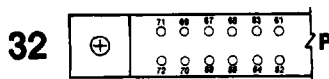
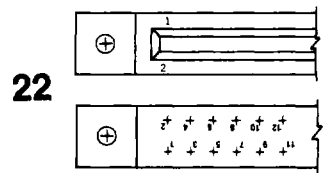
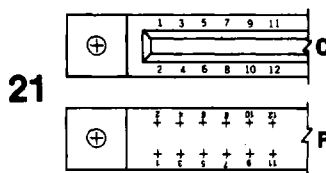
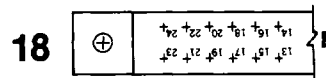
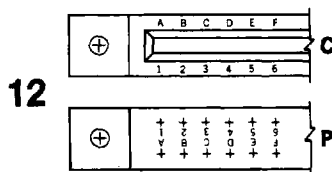
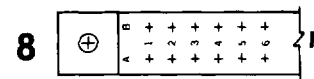
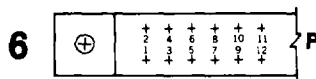
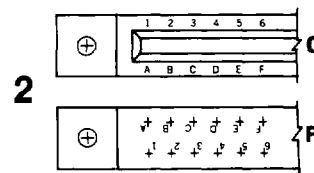
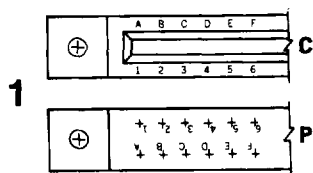
This technique combines the best features of wire-stripping and permanent crimp termination with the maintainability and serviceability of a separable connection.

Tooling: See page 12.

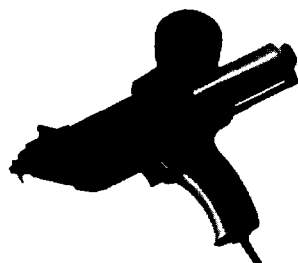
Housing Marking Styles

Marking Styles—Alternate marking styles are available. For information consult AMP Incorporated, Harrisburg, PA

Type of Characters—Stamped white ink.



TERMI-POINT Tool and Clip Specifications



Pneumatic Hand Tool
No. 265560-3 and
Pneumatic Tool Nos.
265560-1 and 265560-2

.022 x .036 [0.56 x 0.91] Post Size

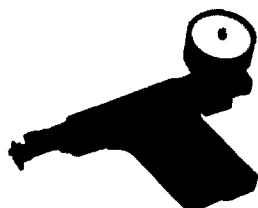
Pneumatic Hand Tool No. 265560-3, Pneumatic Tool Nos. 265560-1 (2-clip) and 265560-2 (3-clip)
(for use with semiautomatic wiring machines) and Manual Service Tool No. 69535

Wire Size Solid or Stranded (7 Str.)		Insulation Dia. Range		Mandrel Insert Number	Mandrel Color Code	Clip Number (2500 Per Reel)	
AWG	mm ²	inch	mm			Gold Plated	Tin-Nickel Plated
28	0.08-0.09			69545-1	Black		
30	0.05	.018-.029	0.46-0.74	69545-3	White	67042-2	67042-1
32	0.03			69545-2	Gray		

.031 x .062 [0.79 x 1.57] Post Size

Pneumatic Hand Tool No. 265575-1 and
Pneumatic Tool No. 265580-1 (for use with semiautomatic wiring machines)

Wire Size Solid or Stranded (7 Str.)		Insulation Dia. Range		Mandrel Insert Number	Mandrel Color Code	Clip Number (2800 Per Reel)		
AWG	mm ²	inch	mm			Electro-Tin Plated	Gold Plated	Tin-Nickel Plated
22	0.3-0.4	.036-.045	0.91-1.14	265070-1	Orange	4-330495-2	4-330495-9	6-330495-8
		.046-.055	1.17-1.4	265070-2				
		.056-.065	1.42-1.65	265070-3				
24	0.2	.034-.045	0.86-1.14	265070-4	Red	2-330495-1	2-330495-2	6-330495-4
		.046-.055	1.17-1.4	265070-5				
		.056-.065	1.42-1.65	265070-6				
26	0.12-0.15	.030-.045	0.76-1.14	265070-7	Brown	1-330495-3	1-330495-8	8-330495-4
		.046-.055	1.17-1.4	265070-8				
28	0.08-0.09	.022-.033	0.56-0.84	265070-9	Black	3-330495-5	9-330495-6	8-330495-8
		.034-.045	0.86-1.14	1-265070-0				



Manual Service Tool
No. 69535

Manual Service Tool No. 69526-2

Wire Size Solid or Stranded (7 Str.)		Insulation Dia. Range		Mandrel Insert Number	Mandrel Color Code	Clip Number (1000 Per Reel)		
AWG	mm ²	inch	mm			Electro-Tin Plated	Gold Plated	Tin-Nickel Plated
22	0.3-0.4	.036-.045	0.91-1.14	69551-8	Orange	6-330495-1	6-330495-2	6-330495-7
		.046-.065	1.17-1.65	1-69411-4				
24	0.2	.034-.045	0.86-1.14	69551-9	Red	5-330495-3	1-330495-9	6-330495-3
		.046-.065	1.17-1.65	1-69411-3				
26	0.12-0.15	.022-.045	0.56-1.14	69551-6	Brown	5-330495-5	9-330495-8	8-330495-6
		.046-.055	1.17-1.4	1-69411-9				
28	0.08-0.09	.022-.045	0.56-1.14	69551-5	Black	5-330495-9	330495-3	9-330495-0



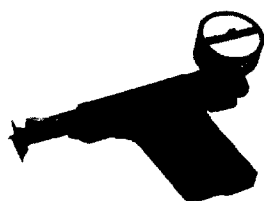
Pneumatic Hand Tool
No. 265575-1 and
Pneumatic Tool No. 265580-1



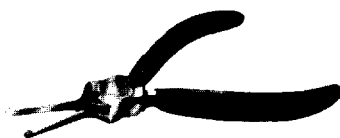
Pull Test Tool
.022 x .036 [0.56 x 0.91] Post—No. 69358-6
.031 x .062 [0.79 x 1.57] Post—No. 69358-2



Clip Extraction Tool
.022 x .036 [0.56 x 0.91] Post—No. 69357-5
.031 x .062 [0.79 x 1.57] Post—No. 69357-3



Manual Service Tool
No. 69526-2



Clip Extraction Captive Tool
.031 x .062 [0.79 x 1.57]
Post—No. 69445



Post Replacement Tools
.022 x .036 [0.56 x 0.91] Post—No. 265831-2
.031 x .062 [0.79 x 1.57] Post—No. 265831-3