## AMPLIMITE .050 Series Cable Assemblies, Series III

To meet Standard Applications the following 106 ohm, black jacketed cable assemblies are available. For AMPLIMITE .050 Series cable assemblies that meet other impedance requirements or other lengths consult TE.

SCSI-2

SCSI-1 to SCSI-2

RS-232 (Alternate)

RS-232 (Alternate) to RS-232

IPI-2 and HIPPI

| Application | Assembly | Part Numbers | | |
|---|---|---|---|---|
| | | 2 Feet | 2 Meters | 3 Meters |
| SCSI-2 | 50 pos. .050 Series Plug to 50 pos. .050 Series Plug | 750254-1 | 5750254-2 | 750254-3 |
| SCSI-2* | 68 pos. .050 Series Plug to 68 pos. .050 Series Plug | — | 5750732-2 | 5750732-4 |
| RS-232 (Alternate) | 26 pos. .050 Series Plug to 26 pos. .050 Series Plug | — | 750255-2 | 750255-3 |

| Application | Assembly | Part Numbers | | |
|---|---|---|---|---|
| | | 5 Meters | 15 Meters | 25 Meters |
| IPI-2 and HIPPI | 100 pos. .050 Series Plug to 100 pos. .050 Series Plug | 749755-2 | — | — |

*This version has spring latches. Consult TE for availability of jackscrew version.

**Note:** .050 centerline ribbon cable assemblies are available in single or double ended versions. These assemblies are made using AMPLIMITE .050 Series panel mount connectors, AMPLIMITE .050 Series all-plastic connectors and AMP-LATCH Novo receptacles. Consult TE.

SCSI—Small Computer Systems Interface
HIPPI—High Performance Parallel Interface
IPI—Intelligent Peripheral Interface

**Note:** All part numbers are RoHS compliant.



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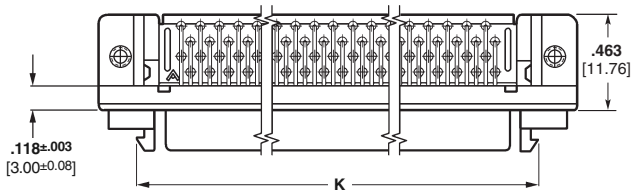
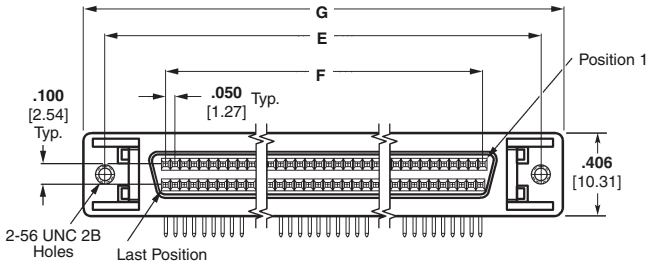
## AMPLIMITE .050 Series Right-Angle Receptacle Headers, Series III




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

### Materials:

**Housing** — Thermoplastic, 94V-0 rated, black. SMT compatible

**Shell** — Steel, plated bright nickel over copper

**Bracket** — Zinc, plated nickel over copper

**Contacts** — Phosphor bronze, duplex plated [.000030] 0.00076 min. gold on mating end; tin on solder end; all under-plated nickel

### Technical Documents:

**Product Specifications** — 108-1228

**Application Specifications** — 114-40029

Shown With Boardlocks

Shown With Boardlocks

Shown With Boardlocks

| No. of Pos. | Dimensions | | | | Part Numbers | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | w/ Rails and Latchblocks | | w/o Rails, w/ Latchblocks | | w/o Rails, w/o Latchblocks | | |
| | | | | | With .100 [2.54] Solder Tails | | With .100 [2.54] Solder Tails | | With .100 [2.54] Solder Tails | | With .120 [3.05] Solder Tails |
| | E | F | G | K | Without Boardlocks | With Boardlocks | Without Boardlocks | With Boardlocks | Without Boardlocks | With Boardlocks | With Boardlocks |
| 40 | **1.580** 40.13 | **.950** 24.13 | **1.815** 46.10 | **1.415** 35.94 | — | 1761028-2 | — | 5787082-3 | — | 5787170-4* | — |
| 50 | **1.830** 46.48 | **1.200** 30.48 | **2.065** 52.45 | **1.665** 42.29 | 5787190-5 | 1761028-3 | 5787394-5 | 5787082-5 | — | 5787170-5* | 5787362-5* |
| 50 | **1.830** 46.48 | **1.200** 30.48 | **2.065** 52.45 | **1.665** 42.29 | — | 5787266-5* | — | 5787395-5* | — | — | — |
| 68 | **2.280** 57.91 | **1.650** 41.91 | **2.515** 63.88 | **2.115** 53.72 | 5787190-7 | 1761028-4 | 5787394-7 | 5787082-7 | 5787169-7* | 5787170-7* | 5787362-7* |
| 100 | **3.080** 78.23 | **2.450** 62.23 | **3.315** 84.20 | **2.915** 74.04 | — | 1761028-5 | — | 5787082-9 | 5787169-9* | 5787170-9* | 5787362-9* |

*Has 4-40 threaded mating holes (2 places), for use with female screwlock Part No. 750644-1.

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Vertical Receptacle Headers With Through-Hole Tails, Series III

## Materials:

**Housing**—Thermoplastic, 94V-0 rated, black. SMT compatible

**Shell**—Steel, plated bright nickel over copper

**Bracket**—Zinc, plated nickel over copper

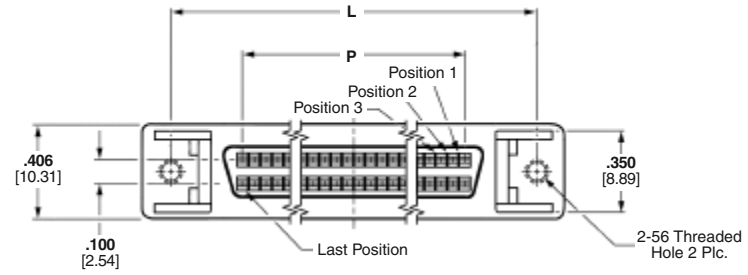
**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end; tin on solder end; all underplated nickel

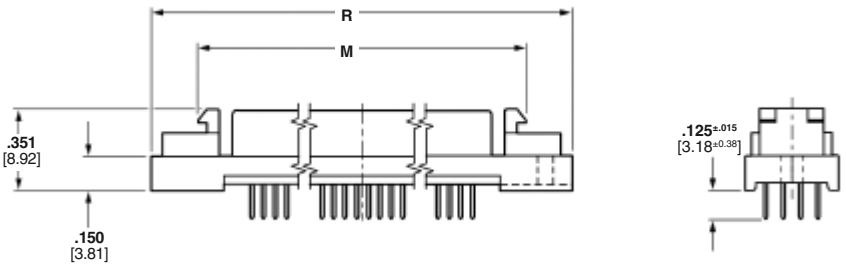
## Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Note:** Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

**Part Number 749069-5**

**Part Number 749721-5**

**Part Number 749070-7**

| No. of Pos. | Dimensions | | | | Part Numbers | | |
|---|---|---|---|---|---|---|---|
| | L | M | P | R | w/ Rails & Latchblocks | w/ Latchblocks | Plain |
| 20 | **1.080** 27.43 | **.915** 23.24 | **.450** 11.43 | **1.315** 33.40 | 5749069-1 | — | — |
| 26 | **1.230** 31.34 | **1.065** 27.05 | **.600** 15.24 | **1.465** 37.21 | 5749069-2 | — | — |
| 28 | **1.280** 32.51 | **1.115** 28.32 | **.650** 16.51 | **1.515** 38.48 | — | 5749721-3 | — |
| 40 | **1.580** 40.13 | **1.415** 35.94 | **.950** 24.13 | **1.815** 46.10 | 5749069-4 | — | — |
| 50 | **1.830** 46.48 | **1.665** 42.29 | **1.200** 30.48 | **2.065** 52.45 | 5749069-5 | 5749721-5 | 5749070-5 |
| 68 | **2.280** 57.91 | **2.115** 53.72 | **1.650** 41.91 | **2.515** 63.88 | 5749069-7 | 5749721-7 | 5749070-7 |
| 80 | **2.580** 65.53 | **2.415** 61.34 | **1.950** 49.53 | **2.815** 71.50 | 5749069-8 | — | — |
| 100 | **3.080** 78.23 | **2.915** 74.04 | **2.450** 62.23 | **3.315** 84.20 | 5749069-9 | — | 5749070-9 |

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Vertical Receptacle Headers With Through-Hole Tails, Series III (Continued)

## .120 [3.05] Solder Tail Length

### Materials:

**Housing**—Thermoplastic, 94V-0 rated, black. SMT compatible

**Shell**—Steel, plated bright nickel over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end; tin on solder end; all under-plated nickel

### Related Product Data:

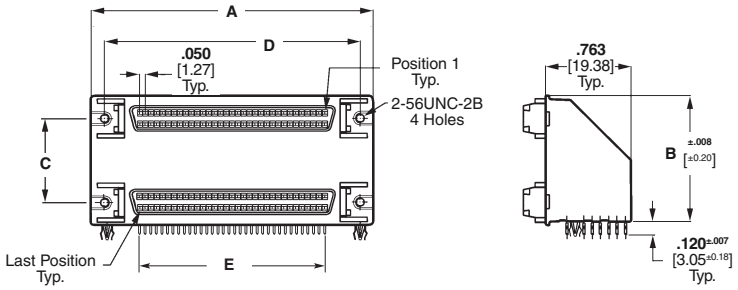
**Required Hardware**—page 26

### Technical Documents:

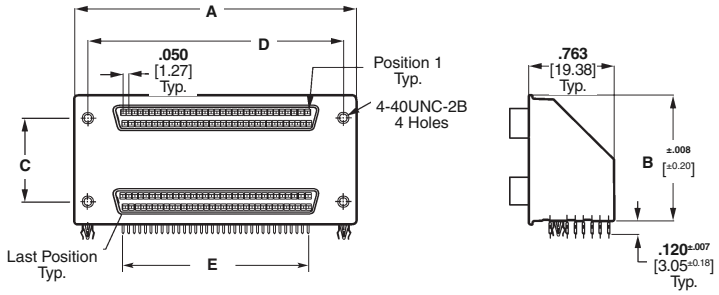
**Product Specifications**—108-1228-1

**Application Specifications**—114-40029

**Note:** Extra pin contact protection is provided by rails, which facilitate a straight-out unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.




**Rails and Latch Blocks**




**Flat Top Configuration**

**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

| No. of Pos. | Dimensions | | | | | Part No. |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | |
| 50/50 | **2.085**<br>52.96 | **.874**<br>22.20 | **.500**<br>12.70 | **1.830**<br>46.48 | **1.200**<br>30.48 | 5787656-1 |
| 68/68 | **2.535**<br>64.39 | **1.124**<br>28.55 | **.750**<br>19.05 | **2.280**<br>57.91 | **1.650**<br>41.91 | 5787678-1 |
| 68/68 | **2.535**<br>64.39 | **1.124**<br>28.55 | **.750**<br>19.05 | **2.280**<br>57.91 | **1.650**<br>41.91 | 5787679-1* |

*Flat-top configuration.

**Note:** All part numbers are RoHS compliant.



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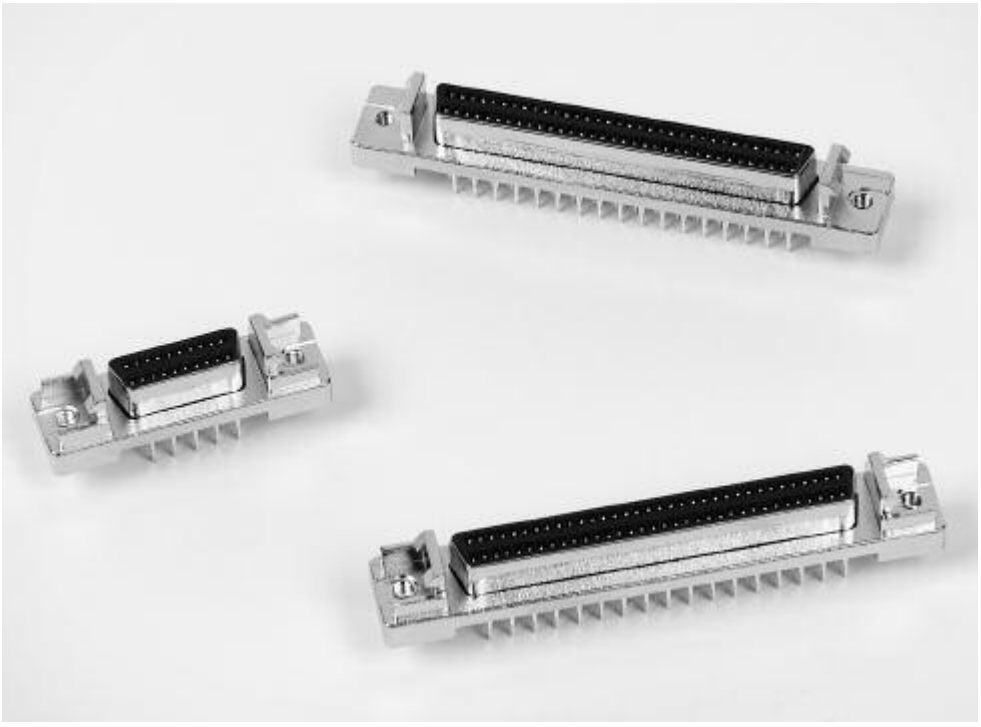
# AMPLIMITE .050 Series Vertical Receptacle Headers, Series III, with ACTION PIN Contacts (.050 x .100 [1.27 x 2.54] Centerlines)

## Product Facts

- **Recognized under the Component Program of the Underwriters Laboratories, Inc., File No. E28476**
- **Certified by Canadian Standards Association, File No. 1088108 (LR 7189A-207)**
- **Produced under a Quality Management System certified to ISO 9001**

  A copy of the certificate is available upon request



Shielded AMPLIMITE .050 Series headers with ACTION PIN contacts offer a high-density D type interface, and a solderless board-mount interconnection. These vertical mount headers are available in 20, 26, 50, 68 and 100 contact sizes. Choice of configurations includes; headers with rails and latch blocks, with latch blocks only, and without rails and latch blocks.

ACTION PIN contact tails are available in two lengths; .173 [4.39] for pc boards with a nominal thickness of .062 [1.56] to .093 [2.36], and .280 [7.11] for pc boards with a nominal thickness of .125 [3.18] to .200 [5.08].

AMPLIMITE .050 Series headers with ACTION PIN contacts are compatible with SCSI-2, SCSI-3, EIA RS-232, IPI-2 and HIPPI standards.

### Principle of the AMPLIMITE .050 Series Compliant ACTION PIN Contact

When an AMPLIMITE .050 Series compliant ACTION PIN contact is inserted into a plated-through-hole, two spring members are compressed, exerting force against the hole for a gas-tight connection. The diameter of the hole is smaller than the diagonal size of the pin.

The beam characteristics of the pin are designed so that a plastic, as well as an elastic, deformation takes place during insertion. The two spring members compress to different degrees to accommodate hole tolerances. The compliant pin also reduces strain on the board. With a rigid pin, the elastic strain energy is stored entirely in the board, leading to damage of the plated-through holes. With the AMPLIMITE .050 Series compliant ACTION PIN contact, the residual force of the elastic deformation maintains stored energy to produce a gas-tight contact zone between the pin and the plated-through-hole. This ensures long term electrical and mechanical reliability of the interconnection.

### Technical Documents:

**Product Specification**—
108-1228-2

**Application Specification**—
114-40029

**Instruction Sheets**—
408 6923—AMP Manual Arbor Frame Assembly
408 9027—AMP Adapter Kit for Greenerd Frame Assemblies 3A and 3B
408 9757—Seating Instructions and Tooling
408 6927—Recommendations for pc board support



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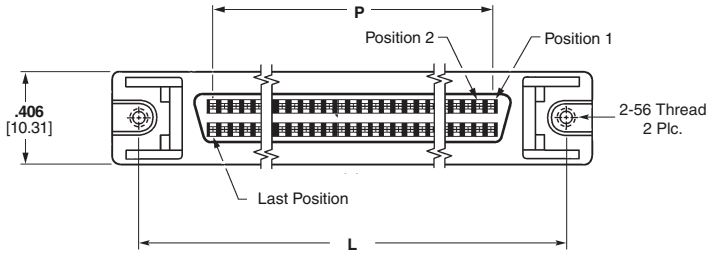
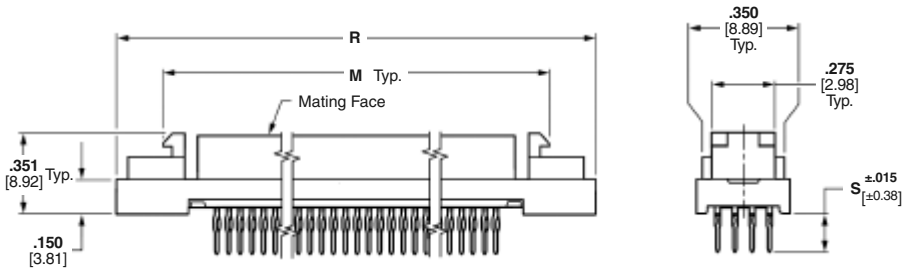
# AMPLIMITE .050 Series Vertical Receptacle Headers, with ACTION PIN Tails, Series III




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

## Materials:

**Housings**—Thermoplastic, 94V-0 rated, black, SMT compatible

**Shell**—Carbon steel, plated bright tin over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end; tin on solder end; all under-plated nickel

## Technical Documents:

**Product Specifications**—
108-1228-2

**Application Specifications**—
114-40029

**Note:** Extra pin contact protection is provided by rails, which facilitate a straight-out unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.

Part Number 786554-1

Part Number 786554-7

Part Number 786155-7

| No. of Pos. | Dimensions | | | | | Part Numbers | | |
|---|---|---|---|---|---|---|---|---|
| | L | M | P | R | S | w/ Rails & Latchblocks | w/ Latchblocks | Plain |
| 20 | **1.080** 27.43 | **.915** 23.24 | **.450** 11.43 | **1.315** 33.40 | **.173** 4.39 | 5786554-1 | — | — |
| 26 | **1.230** 31.34 | **1.065** 27.05 | **.600** 15.24 | **1.465** 37.21 | **.173** 4.39 | 5786554-2 | — | — |
| 50 | **1.830** 46.48 | **1.665** 42.29 | **1.200** 30.48 | **2.065** 52.45 | **.173** 4.39 | 5786554-5 | 5786155-5 | 5786555-5 |
| | | | | | **.280** 7.11 | 5786556-5 | — | — |
| 68 | **2.280** 57.91 | **2.115** 53.72 | **1.650** 41.91 | **2.515** 63.88 | **.173** 4.39 | 5786554-7 | 5786155-7 | 5786555-7 |
| | | | | | **.280** 7.11 | — | 786155-7 | 5786557-7 |
| 100 | **3.080** 78.23 | **2.915** 74.04 | **2.450** 62.23 | **3.315** 84.20 | **.173** 4.39 | 5786554-9 | — | 5786555-9 |
| 120 | **3.580** 90.93 | **3.415** 86.74 | **2.950** 74.93 | **3.815** 96.90 | **.173** 4.39 | 1-5786554-0 | — | — |

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Cable Plug Connectors, Series III

## Shielded Plugs

Shielded Plug

Wire Lacing Termination Covers

### Materials:

**Housing and Covers**—Thermoplastic, 94V-0 rated, black or gray

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, tin on termination end, all underplated .nickel

**Shell**—Steel, plated tin-nickel alloy over nickel over min. copper

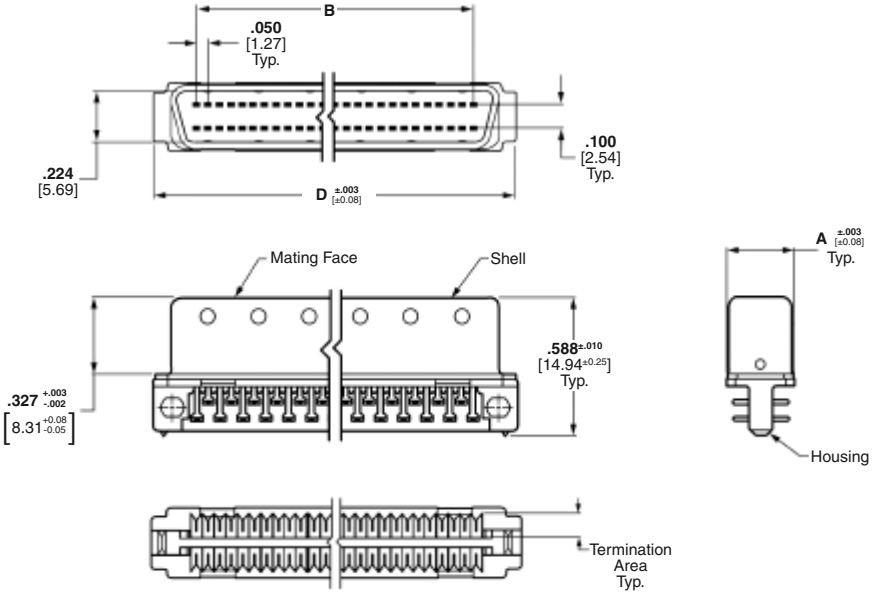
**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter.

### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Instruction Sheet**—408-9427




Shielded Plug with Unassembled Wire Lacing Termination Covers

### Connector With Unassembled Wire Lacing Termination Covers

| No. of Pos. | Dimensions | | | Part Numbers | |
|---|---|---|---|---|---|
| | A | B | D | .032-.036 [0.81-0.91] Outer Wire Dia. Black | .029-.031 [0.74-0.79] Outer Wire Dia. Gray |
| 26 | **.293** 7.44 | **.600** 15.24 | **.979** 24.87 | 5750913-2 | 1-5750913-2 |
| 50 | **.293** 7.44 | **1.200** 30.48 | **1.579** 40.11 | 5750913-5 | 1-5750913-5 |
| 68 | **.293** 7.44 | **1.650** 41.91 | **2.029** 51.54 | 5750913-7 | 1-5750913-7 |
| 100 | **.373** 9.47 | **2.450** 62.23 | **2.829** 71.86 | — | 1-5750913-9 |

**Notes:** 1. Plug connector requires backshell kit for complete assembly. Refer to pages 16-19 for backshell kit part numbers.
2. For termination, cover closing and wire lacing tooling, see page 14.

**Note:** All part numbers are RoHS compliant.



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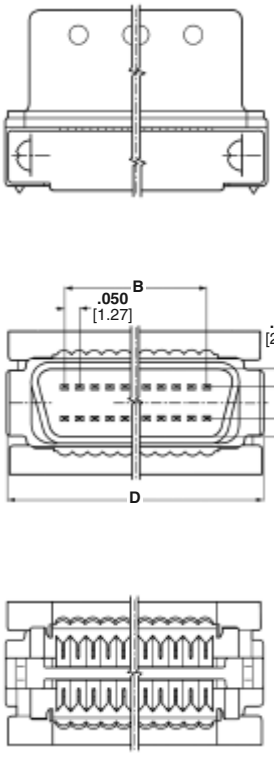
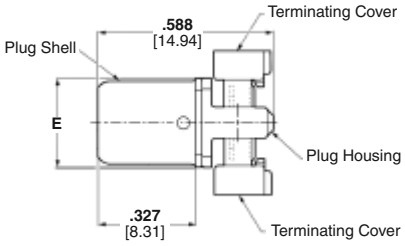
## AMPLIMITE .050 Series Cable Plug Connectors, Series III (Continued)

### Shielded Plugs
(Continued)

**Shielded Plug with Unassembled Standard Termination Covers**

**Shielded Plug with Assembled Standard Termination Covers**




**Shielded Plug with Assembled or Unassembled Standard Termination Covers**

### Materials:

**Housing and Covers**—Thermoplastic, 94V-0 rated, black

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, tin on termination end, all underplated nickel

**Shell**—Steel, plated tin-nickel alloy over nickel over copper

**Recommended wire size[3]** — 28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter.

### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Instruction Sheet**—408-9427

**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

### Connectors With Standard Termination Covers

| No. of Pos. | Dimensions | | | Part Numbers | |
|---|---|---|---|---|---|
| | B | D | E | w/Rails & Latchblocks | w/Latchblocks |
| 20 | **.450** 11.43 | **.829** 21.06 | **.293** 7.44 | 5749111-1 | 5749621-1 |
| 26 | **.600** 15.24 | **.979** 24.87 | **.293** 7.44 | 1-5749111-0 | 5749621-2 |
| 28 | **.650** 16.50 | **1.029** 26.14 | **.293** 7.44 | — | 5749621-3 |
| 40 | **.950** 24.13 | **1.329** 33.76 | **.293** 7.44 | 5749111-3 | 5749621-4 |
| 50 | **1.200** 30.48 | **1.579** 40.11 | **.293** 7.44 | 5749111-4 | 5749621-5 |
| 68 | **1.650** 41.91 | **2.029** 51.54 | **.293** 7.44 | 5749111-6 | 5749621-7 |
| 80 | **1.950** 49.53 | **2.329** 59.16 | **.373** 9.47 | 5749111-7 | 5749621-8 |
| 100 | **2.450** 62.23 | **2.829** 71.86 | **.373** 9.47 | 5749111-8 | 5749621-9 |
| 120 | **2.950** 74.93 | **3.329** 84.56 | **.373** 9.47 | 5749111-9 | 1-5749621-0 |

**Notes:** 1. Plug connector requires backshell kit for complete assembly and must use round jacketed cable (discrete or laminated). Refer to pages 16-19 for backshell kit part numbers.
2. For termination tooling, see pages 28 & 29.
3. The CHAMPOMATOR 2.5 Automatic Termination Machine will accept diameters as low as .023 [0.58].

**Note:** All part numbers are RoHS compliant.



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## AMPLIMITE .050 Series Cable Plug Connectors, Series III (Continued)

### AMPLIMITE .050 Series Connector Application Tooling for Use with Wire Lacing Termination Covers

**Manual Arbor Frame Assembly—Part No. 58024-1**

Equipped with Cover Lacing Assembly—**Part No. 91293-1** (Includes Seating Bars for 50 and 100 Positions). See Table 3 for Seating Bar Part Numbers.

Extra Lacing Stations available for use with Lacing Assembly—**Part No. 91293-1** Order Lower Tooling Assembly—**Part No. 543481-1**

**Arbor Frame, Part No. 58024-1 Equipped with Cover Lacing Assembly, Part No. 91293-1**

**Lower Tooling Assembly Part No. 543481-1**

**Miniature Applicator Frame Assembly Part No. 91295-1 Equipped with Cover Closing Kit Part No. 543508-1**

**Seatings Bars**

**Table Number 3**

| No. of Pos. | Seating Bar Part No. |
|---|---|
| 26 | 543494-2 |
| 40 | 543494-3 |
| 50 | 543494-1 |
| 68 | 543502-2 |
| 100 | 543502-1 |

**Note:** All Tooling must be ordered separately by part number.

**Note:** AMP Manual Miniature Applicator Frame Assembly, Cover Closing Kit, and Staple Insertion Kit each must be ordered separately by part number.

**Note:** All part numbers are RoHS compliant.



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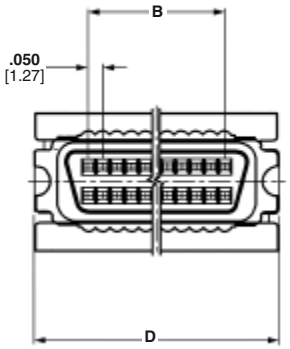
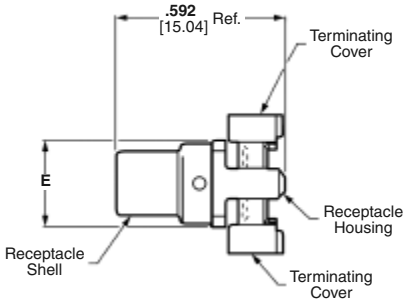
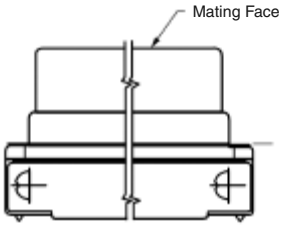
# AMPLIMITE .050 Series Cable Receptacle Connectors, Series III

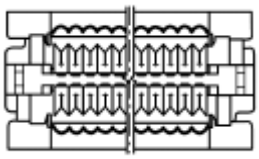
## Shielded Receptacles

**Shielded Receptacle with Assembled Termination Covers**



### Materials:

**Housing and Covers**—Thermoplastic, 94V-0 rated, black

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, tin on termination end, all underplated nickel

**Shell**—Steel, plated bright tin over copper

**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter.

### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

| No. of Pos. | Dimensions | | | Part Numbers | |
|---|---|---|---|---|---|
| | | | | Connectors With Standard Termination Covers | |
| | B | D | E | Assembled Covers | Unassembled Covers |
| 40 | **.950** 24.13 | **1.329** 33.76 | **.293** 7.44 | — | — |
| 50 | **1.200** 30.48 | **1.579** 40.11 | **.293** 7.44 | 5749210-5 | 5749699-5 |
| 68 | **1.650** 41.91 | **2.029** 51.54 | **.293** 7.44 | 5749210-7 | 5749699-7 |
| 100 | **2.450** 62.23 | **2.829** 71.86 | **.373** 9.47 | — | 5749699-8 |

**Notes:** 1. Receptacle connector requires backshell kit for complete assembly. Refer to pages 16-19 for backshell kit part numbers.
2. For termination, cover closing and wire lacing tooling, see page 14.
3. For Termination Tooling other than Wire Lacing see pages 28 & 29.

**Note:** All part numbers are RoHS compliant.



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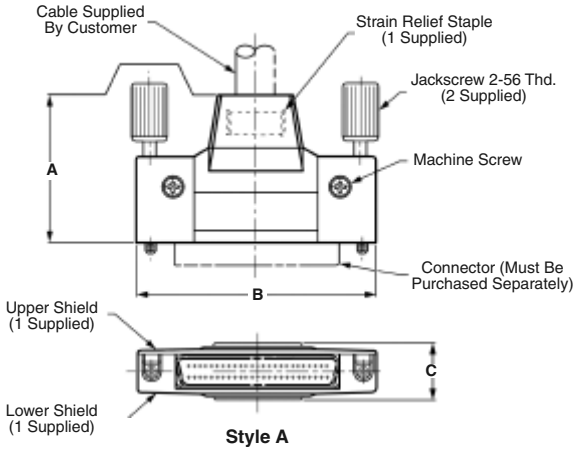
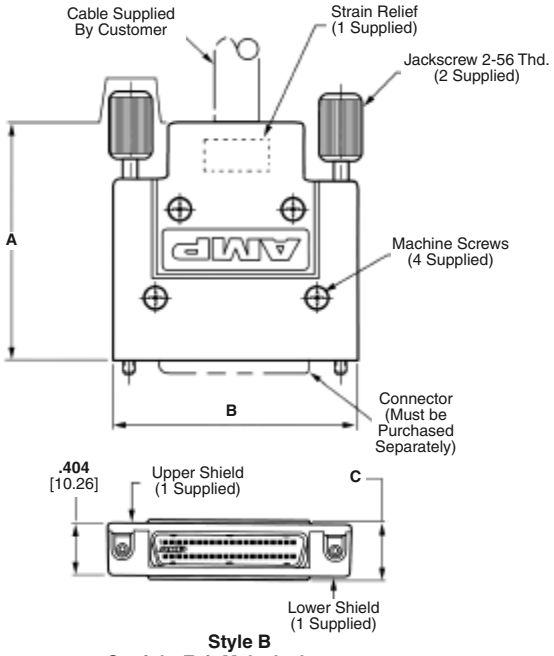
# AMPLIMITE .050 Series Shielded Backshell Kits, With Jackscrews, Series III

**Straight Exit**
**Male Jackscrews**
**Style A**



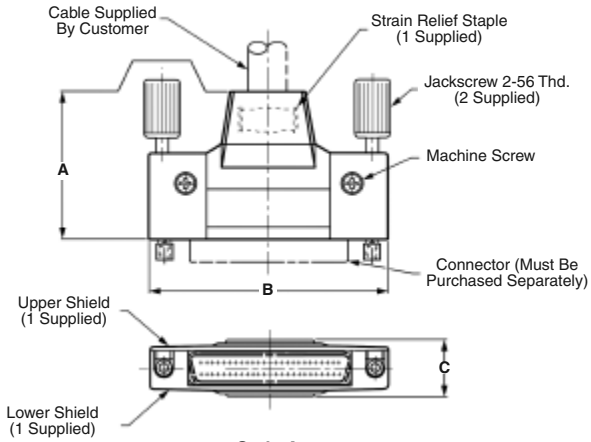

**Style A**
**Straight Exit Male Jackscrews**

**Straight Exit**
**Male Jackscrews**
**Style B**




**Style B**
**Straight Exit Male Jackscrews**

**Straight Exit**
**Female Jackscrews**
**Style A**




**Style A**
**Straight Exit Female Jackscrews**

## Materials:

**Jackscrews**—Stainless steel or steel, black electroless nickel plated

**Jackscrew Caps**—Polyolefin or PVC, black

**2-56 Screws**—Stainless steel

**Backshell**—Zinc, plated nickel over copper

**Strain Relief Staple**—Steel, plated tin over nickel

## Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Instruction Sheet**—408-9427



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## AMPLIMITE .050 Series Shielded Backshell Kits, With Jackscrews, Series III (Continued)

| No. of Pos. | Style | Dimensions A | Dimensions B | Dimensions C | Pkg. | Max. O.D. | Male with #2-56 Threads | Female with #2-56 Threads |
|---|---|---|---|---|---|---|---|---|
| 40 | B | **1.822** 46.25 | **1.830** 46.48 | **.456** 11.58 | Bulk | **.450** 11.43 | 5787543-1 | 5787543-7 |
| | | | | | Bulk | **.400** 10.16 | 5787543-2 | 5787543-8 |
| | | | | | Bulk | **.350** 8.89 | 5787543-3 | 5787543-9 |
| 50 | A | **1.270** 32.26 | **2.085** 52.96 | **.480** 12.19 | Individual | **.400** 10.16 | 5749080-1 | — |
| | | | | | Bulk | **.400** 10.16 | 5749080-2 | — |
| 68 | B | **1.887** 47.93 | **2.645** 67.18 | **.660** 16.76 | Bulk | **.550** 13.97 | 5750752-3 | — |
| | | **1.822** 46.28 | **2.525** 64.14 | **.564** 14.33 | Individual | **.550** 13.97 | 5786152-3 | — |
| 100 | A | **2.082** 52.88 | **3.325** 84.46 | **.615** 15.62 | Individual | **.500** 12.70 | 5749854-1 | — |
| | | **1.695** 43.05 | **3.325** 84.46 | **.595** 15.11 | Individual | **.500** 12.70 | 5749081-1 | — |

**Notes:** 1. Each backshell kit includes upper and lower backshells, two male or female jackscrews, one strain relief staple and two or four #2-56 screws. All are packaged unassembled.
2. For Staple Insertion Tooling see page 29.

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Shielded Backshell Kits, With Spring Latches, Series III

**Style A**
**Straight Exit**
**with Latches**

**Style A**
**Angled Exit**
**with Latches**

**Style B**
**Straight Exit**
**with Latches**

## Materials:

**Backshell**—Zinc, plated nickel over copper

**Spring Latch**—Stainless steel

**2-56 Screws**—Stainless steel

**Strain Relief Staple**—Steel, plated tin over nickel

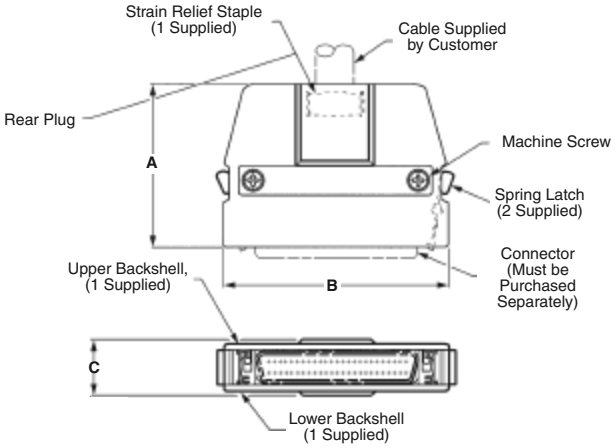
## Technical Documents:

**Product Specifications**—108-1228

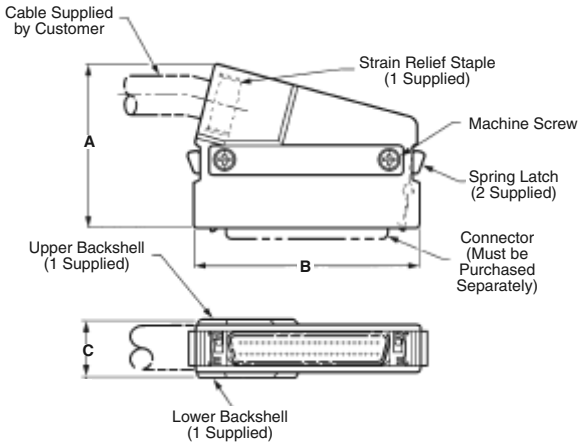
**Application Specifications**—114-40029

**Instruction Sheet**—408-9427

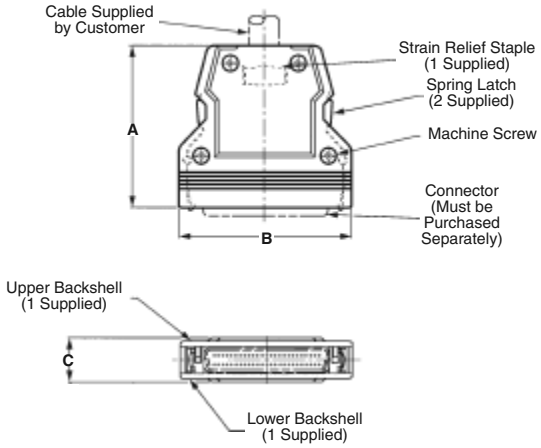
**Note:** Extra pin contact protection is provided by rails on the receptacle, which facilitate a straight-out unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.




**Style A**
**Straight Exit with Latches**




**Style A**
**Angled Exit with Latches**




**Style B**
**Straight Exit with Latches**



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## AMPLIMITE .050 Series Shielded Backshell Kits, With Spring Latches, Series III (Continued)

| No. of Pos. | Style | Dimensions A | Dimensions B | Dimensions C | Pkg. | Max. O.D. | Straight Exit with Latches | Angled Exit with Latches |
|---|---|---|---|---|---|---|---|---|
| 20 | A | **1.290** 32.77 | **1.215** 30.86 | **.400** 10.16 | Individual | **.270** 6.86 | 5749190-1 | 5749199-1 |
| 26 | A | **1.290** 32.77 | **1.365** 34.67 | **.400** 10.16 | Individual | **.270** 6.86 | — | 5749609-1 |
| | B | **1.290** 32.77 | **1.335** 33.91 | **.400** 10.16 | Individual | **.270** 6.86 | 749608-2 | — |
| 40 | A | **1.290** 32.77 | **1.715** 43.56 | **.400** 10.16 | Individual | **.320** 8.13 | — | 5749201-1 |
| | | | | | | **.320** 8.13 | 5749192-1 | — |
| 50 | A | **1.395** 35.43 | **1.965** 49.91 | **.480** 12.19 | Individual | **.400** 10.16 | — | 5749202-2 |
| | | | | | Bulk | **.400** 10.16 | 5749202-3 | — |
| | | | | | Individual | **.355** 9.02 | 5749193-1 | — |
| | | | | | | **.400** 10.16 | 5749193-2 | — |
| | B | **1.800** 45.72 | **1.965** 49.91 | **.492** 12.50 | Bulk | **.480** 12.19 | 5749889-3 | — |
| | | | | | Individual | **.480** 12.18 | 5749889-4 | — |
| 68 | A | **1.405** 35.69 | **2.415** 61.34 | **.520** 13.21 | Individual | **.400** 10.16 | — | 5749204-1 |
| | | | | | | **.440** 11.18 | 5749195-2 | 5749204-2 |
| 80 | A | **1.600** 40.64 | **2.715** 68.96 | **.565** 14.35 | Individual | **.420** 10.67 | — | 5749205-1 |
| | | | | | | **.500** 12.70 | 749196-2 | — |
| 100 | A | **1.725** 43.82 | **3.215** 81.66 | **.615** 15.62 | Individual | **.500** 12.70 | 5749197-1 | 5749206-1 |
| 120 | A | **1.725** 43.82 | **3.715** 94.36 | **.665** 16.89 | Individual | **.550** 13.97 | 5749198-1 | 5749207-1 |

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Shielded Enclosure Kits, With Male Jackscrews, Series III

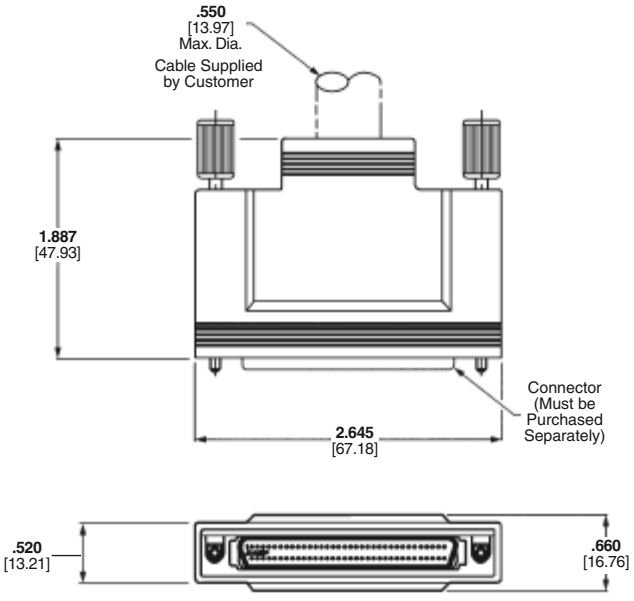
## 68-Position

### Material and Finish:

**Backshells**—Zinc
**Boot**—PVC, black
**Jackscrews**—Stainless steel and PVC, black
**Staple**—Carbon steel, plated tin over nickel
**Screws**—Stainless steel, #2-56 threads

### Technical Documents:

**Product Specifications**—108-1228
**Application Specifications**—114-40029




| No. of Pos. | Part Number Male 2-56 Jackscrews | Part Number Male 4-40 Jackscrews |
|---|---|---|
| 68 | 5750752-1 | 5750752-2 |

**Notes:** 1. Each enclosure kit contains two backshells, one boot, two jackscrews, one staple and two screws. All are packaged unassembled.
2. For staple insertion tooling see page 29.
3. Meets SCSI-3 standards.

**Note:** All part numbers are RoHS compliant.



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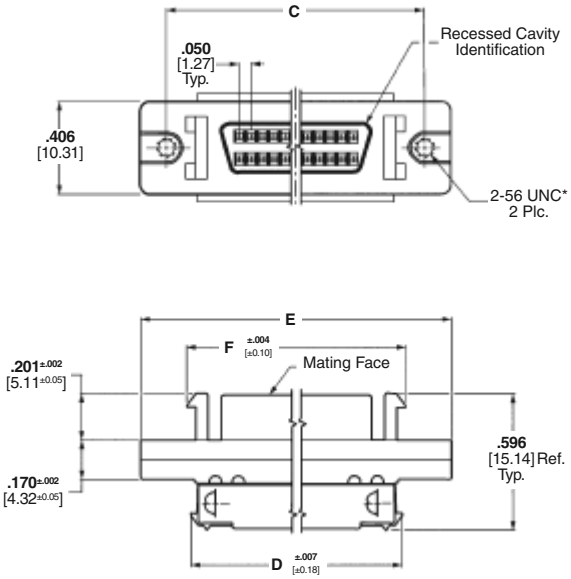
# AMPLIMITE .050 Series Panel Mount Receptacle Assemblies Without Rails, With Latch Blocks, Series III




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

## Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Shell**—Steel, plated bright nickel over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, bright tin in termination area, all nickel underplated

**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter or .050 [1.27] centerline, 28 AWG [0.08-0.09mm²] stranded, PVC, flat ribbon cable.

## Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

| No. of Pos. | Dimensions | | | | Part Numbers | | |
|---|---|---|---|---|---|---|---|
| | C | D | E | F | Connectors With Assembled Standard Termination Covers | Connectors With Unassembled Wire Lacing Termination Covers | |
| | | | | | | .032-.036 [0.81-0.91] Outer Wire Dia. | .029-.031 [0.74-0.79] Outer Wire Dia. |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | **1.665** 42.29 | 1-749656-1 | 5-786862-5 | 6-786862-5 |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | **1.665** 42.29 | 5-750640-1* | 5-786865-5* | — |
| 68 | **2.280** 57.91 | **2.079** 52.81 | **2.515** 63.88 | **2.115** 53.72 | 1-749656-2 | — | — |
| 120 | **3.580** 90.93 | **3.379** 85.83 | **3.815** 96.90 | **3.415** 86.74 | 6-749656-0 | — | — |

*__Part Numbers 5-750640-1__ and __5-786865-5__ have 4-40 threaded holes. All others have 2-56 threaded holes.
**Note:** For termination, cover closing and wire lacing tooling, see page 14.
For termination tooling other than wire lacing see pages 28 & 29.

**Note:** All part numbers are RoHS compliant.



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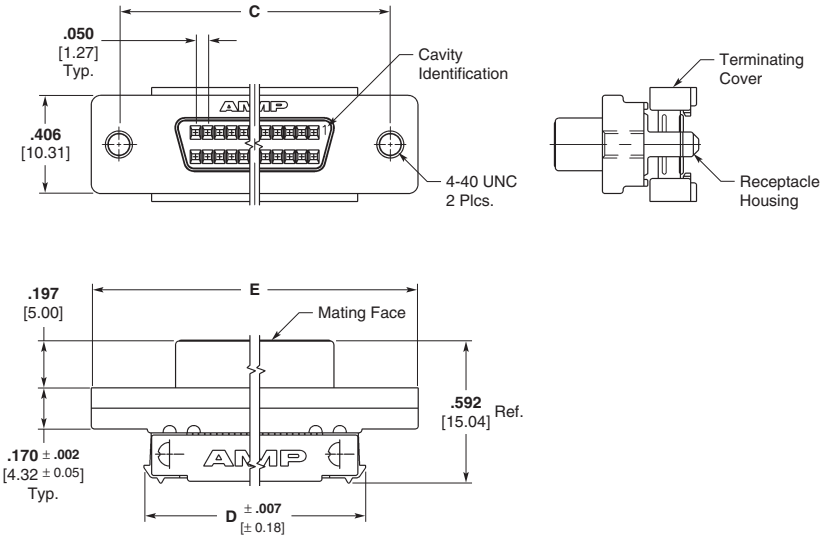
# AMPLIMITE .050 Series Panel Mount Flat Top Receptacle Assemblies Without Rails and Latch Blocks, Series III




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

## Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Shell**—Steel, plated bright nickel over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end; tin on solder end; all nickel underplated

**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter or .050 [1.27] centerline, 28 AWG [0.08-0.09mm²] stranded, PVC, flat ribbon cable

## Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

| Pos. No. of | Dimensions | | | Part Numbers |
|---|---|---|---|---|
| | C | D | E | Connectors With Assembled Standard Termination Covers |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | 5-749877-5 |
| 68 | **2.280** 57.91 | **2.079** 52.81 | **2.515** 63.88 | 5-749877-7 |
| 100 | **3.080** 78.23 | **2.879** 73.13 | **3.315** 84.20 | 5-749877-9 |

**Note:** For termination, cover closing and wire lacing tooling, see page 14.
For termination tooling other than wire lacing see pages 28 & 29.

**Note:** All part numbers are RoHS compliant.



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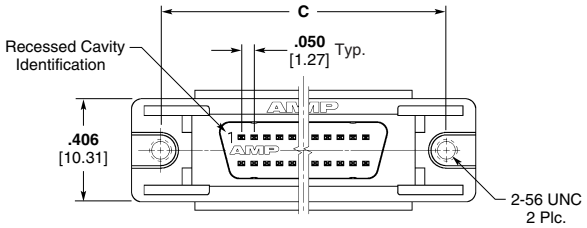
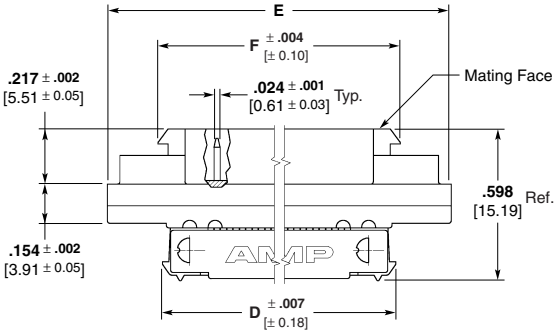
# AMPLIMITE .050 Series Panel Mount Plug Assemblies With Rails, Latch Blocks, Series III

## Plug




### Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, bright tin in termination area, all nickel underplated

**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter or .050 [1.27] centerline, 28 AWG [0.08-0.09mm²] stranded, PVC, flat ribbon cable.

### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Note:** Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.

| No. of Positions | Dimensions | | | | Part Numbers |
|---|---|---|---|---|---|
| | C | D | E | F | |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | **1.665** 42.29 | 5-749878-5 |
| 68 | **2.280** 57.91 | **2.079** 52.81 | **2.515** 63.88 | **2.115** 53.72 | 5-749878-7 |
| 100 | **3.080** 78.23 | **2.879** 73.13 | **3.315** 84.20 | **2.915** 74.04 | 5-749878-9 |

**Note:** All part numbers are RoHS compliant.



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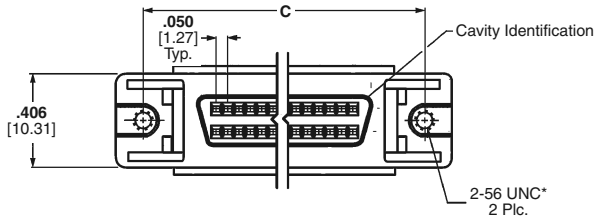
## AMPLIMITE .050 Series Panel Mount Plug Assemblies With Rails, Latch Blocks, Series III (Continued)




### Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Shell**—Steel, plated bright nickel over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, bright tin in termination area, all nickel underplated

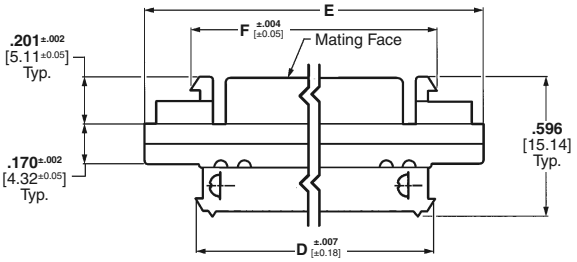
**Recommended wire size**—28 AWG [0.08-0.09mm²] or 30 AWG [0.05mm²], solid or 7 strand, with a .029-.036 [0.74-0.89] insulation diameter or .050 [1.27] centerline, 28 AWG [0.08-0.09mm²] stranded, PVC, flat ribbon cable.

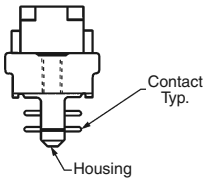
### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Note:** Extra pin contact protection is provided by rails, which facilitate a straight-out, unmating motion. A side-to-side rocking motion should not be used to disengage the connector system.




**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

| No. of Pos. | Dimensions | | | | Part Numbers |
|---|---|---|---|---|---|
| | C | D | E | F | Connectors With Assembled Standard Termination Covers |
| 20 | **1.080** 27.43 | **.879** 22.33 | **1.315** 33.40 | **.915** 23.24 | 5-749611-2 |
| 26 | **1.230** 31.24 | **1.029** 26.14 | **1.465** 37.21 | **1.065** 27.05 | 5-749611-1 |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | **1.665** 42.29 | 5-749611-5 |
| 50 | **1.830** 46.48 | **1.629** 41.38 | **2.065** 52.45 | **1.665** 42.29 | 5-750450-1* |
| 100 | **3.080** 78.23 | **2.879** 73.13 | **3.315** 84.20 | **2.915** 74.04 | 5-749611-9 |

*__Part Number 750450-1__ has 4-40 threaded holes. All others have 2-56 threaded holes.
**Note:** For termination, cover closing and wire lacing tooling, see page 14.
For termination tooling other than wire lacing see pages 28 & 29.

**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Plug Assemblies Unshielded for .025 [0.64] Centerline Ribbon Cable, Series III

## Plug Assembly

### Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, bright tin on termination end, all over nickel underplating

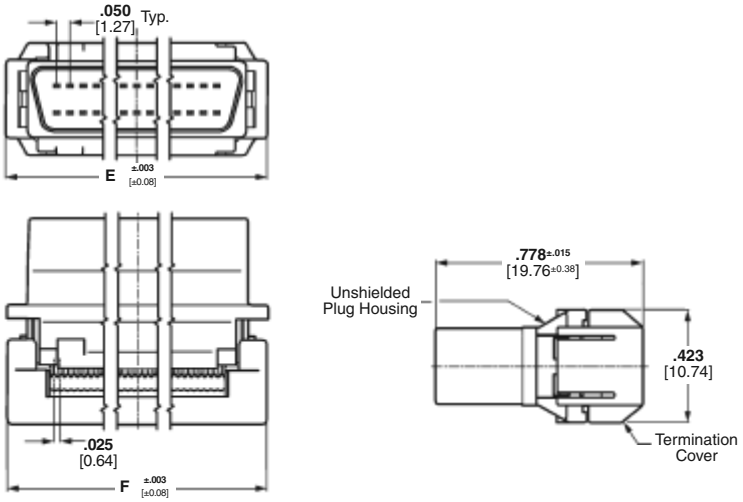
**Recommended wire size**—.025 [0.64] centerline, 30 AWG [0.05mm²] solid or 7 strand, PVC, flat ribbon cable.

**Note: Cable must be approved by TE Engineering.**

### Technical Documents for 5786090-7 only:

**Product Specifications**—108-1359

**Application Specifications**—114-40049




| No. of Pos. | Dimensions E | Dimensions F | Part No. |
|---|---|---|---|
| 50 | **1.578** 40.07 | **1.578** 40.07 | 5390377-5[1] |
| 68 | **2.029** 51.54 | **2.023** 51.30 | 5786090-7 |

**Note:** Termination Tooling: Manual Arbor Press Part No. 91085-2 or Pneumatic Press Part No. 91112-3, Universal Base Tool Part No. 768338-4, and Connector Specific Kit Part No. 679235-2. Refer to page 29.

[1] Accepts 32 AWG Flat Ribbon Cable. Selection of compatible ribbon cable is the responsibility of the user.

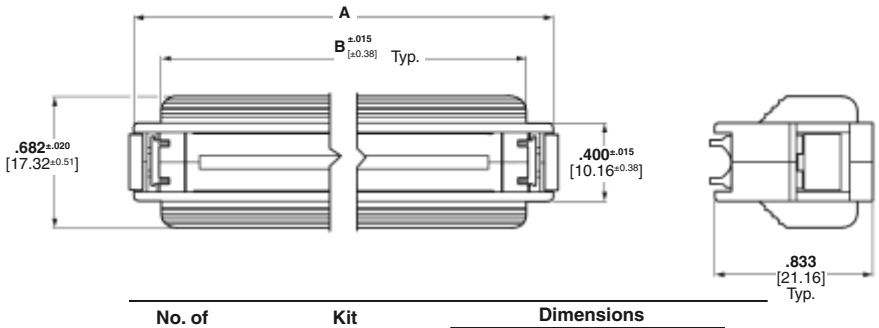
**Note:** Refer to TE Customer drawings and Application Spec for PCB & panel layouts.

## Backshell Kit for 5786090-7 .025 [0.64]℄ Unshielded Plug

### Materials:

**Backshell**—Thermoplastic, 94V-0 rated, black

**Spring Latches**—Stainless steel




| No. of Pos. | Kit Part No. | Dimensions A | Dimensions B |
|---|---|---|---|
| 68 | 787032-7 | **2.415** [61.34] | **2.125** [53.48] |

## Strain Relief for 5786090-7 .025 [0.64]℄ Unshielded Plug

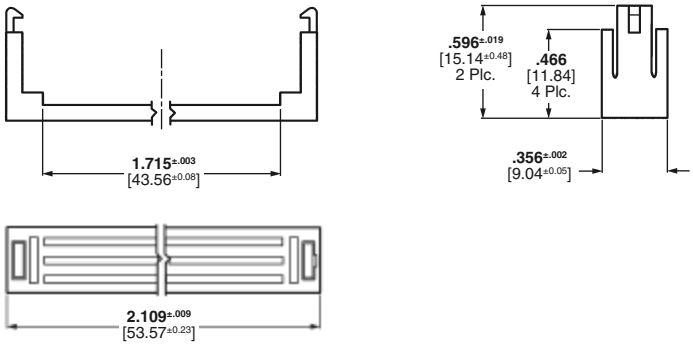
### 68-Position

### Part No. 787043-7

### Materials:

Thermoplastic, 94V-0 rated, black

**Note: Pull tab Part No. 88450-8 can be used with this strain relief. Must be ordered separately.**




**Note:** All part numbers are RoHS compliant.



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# AMPLIMITE .050 Series Hardware and Dust Covers, Series III

## Screwlock Kits

### Materials:

Stainless steel (female)
Steel, zinc plated black (male)

### Related Product Data:

**Used with the following connectors:**

**Right-Angle Receptacle Header**—page 7

**Vertical Receptacle Header**—pages 8-11

**Panel Mount Plug and Receptacle Headers**—pages 21 & 22

### Technical Documents:

**Product Specifications**—108-1228

**Application Specifications**—114-40029

**Male**
**Part No. 749086-1**
**(Includes two screwlocks)**

**Female**
**(Includes two screwlocks)**

| Dim. A | Dim. B | Individual Kits Part No. | Bulk Part No. |
|---|---|---|---|
| **.562** 14.27 | **.157** 3.99 | 749087-1 | — |
| **.380** 9.65 | **.157** 3.99 | 749087-2[1] | 749087-3 |
| **.562** 14.27 | **.165** 4.19 | 749087-4 | 749087-8 |

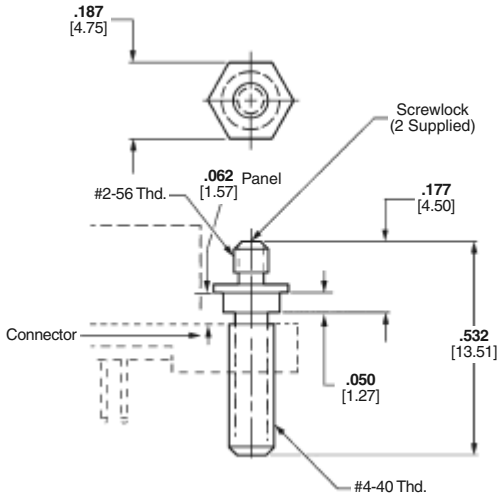
[1] Recommended for right-angle board mount connectors.

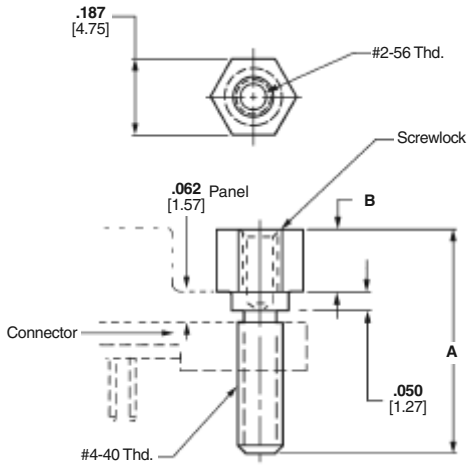
**Female**
**(Includes two screwlocks)**

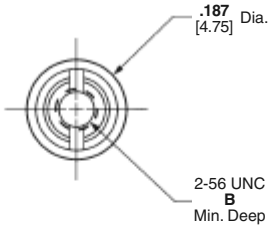
| Thread Size A | Thread Size B | Kits Part No. | Bulk Part No. |
|---|---|---|---|
| 4-40 | **.110** 2.79 | 750644-1 | — |
| 2-56 | **.090** 2.29 | 786585-2 | 786585-3 |

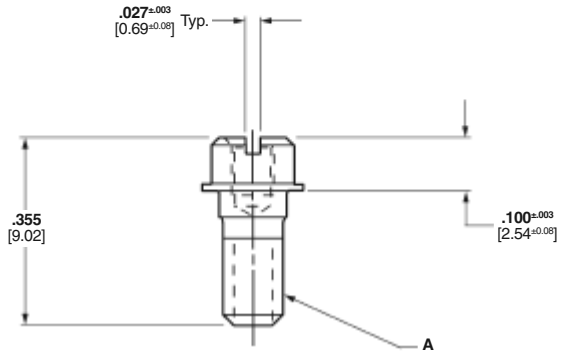
**Recommended for pc board mount of panel mount connectors with latches or latches and rails. Permits cable connectors to be spring latch-type or jackscrew-type**

**Note:** All part numbers are RoHS compliant.



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## AMPLIMITE .050 Series Performance Specifications and Technical Documents

**Performance Specifications for Right-Angle, Vertical and .050 Centerline Cable Products**

**Mating Cycles (Durability):** 500 max.

**Current Rating (30°C T-Rise):** 1A max., 50% energized

**Termination Resistance (Mated):** 25 milliohms max.

**Insulation Resistance:** 1000 megohms min.

**Dielectric Withstanding Voltage:** 500 VAC

**Header Processing Temperature:** +220°C max. for 3 minutes

**Temperature Range:** –55°C to 105°C

**Performance Specifications for .025 [1.27] Centerline Ribbon Cable Product. Same as above except:**

**Current Rating (30°C T-Rise):** 1A max. center four contacts energized (two from top row, two from bottom row)

**Termination Resistance (Mated):** 50 milliohms max.

**Product Specifications:**

| | |
|---|---|
| 108-1228 | AMPLIMITE .050 Series Printed Circuit Board Mounted and Cable Applied |
| 108-1359 | AMPLIMITE .050 Series .025 [0.64] Centerline Connectors |
| 108-1228 | AMPLIMITE .050 Series Stacked Connectors |
| 108-1228-2 | AMPLIMITE .050 Series ACTION PIN Connectors |
| 108-1228-3 | AMPLIMITE .050 Series SBus Connectors |

**Application Specifications:**

| | |
|---|---|
| 114-40029 | AMPLIMITE .050 Series Printed Circuit Board Mounted and Cable Applied Connectors |
| 114-40049 | AMPLIMITE .050 Series .025 [0.64] Centerline Connectors |

**Instruction Sheets:**

| | |
|---|---|
| 408-6923 | AMP Manual Arbor Frame Assembly |
| 408-6927 | TE Design Recommendations for Printed Circuit Board Support Fixture |
| 408-9200 | AMP Single Wire Insertion Tool |
| 408-9822 | Wire Termination Tooling Kit for CHAMPOMATOR 2.5 Machine |
| 408-9820 | AMP Cover Closing and Staple Inserter Kits |
| 408-9663 | AMP Mass Insertion Tool |
| 408-9750 | AMP Cover Lacing Fixture |
| 408-9757 | AMP Tooling Assembly for ACTION PIN Receptacles |
| 408-9817 | AMP Manual Miniature Applicator Frame Assembly |
| 408-9427 | Round-to-Flat Cable Termination |
| 408-9875 | AMP Universal Base Tool for .025 [0.64] ℄ Connectors |
| 408-9892 | AMP Tool Kit for .025 [0.64] ℄ Connectors |

**Customer Manuals:**

| | |
|---|---|
| 409-5839 | CHAMPOMATOR 2.5 Machine |
| 409-5791 | Control Unit for CHAMPOMATOR 2.5 Machine |



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## AMPLIMITE .050 Series Application Tooling, Series III

### Discrete Wire Application Tooling

To meet medium to high volume production of dis-crete wire terminations, TE offers the following tooling:

The CHAMPOMATOR Model 2.5 Bench Terminating Machine—**Part No. 354786-1**, used in conjunction with Control Module—**Part No. 852423-☐**, and Tie Bar—**Part No. 762637-☐** (Table No. 1).

**Control Module**
**Part No. 852423-1 120 VAC**
**852423-2 100 VAC**
**852423-3 230 VAC**

**CHAMPOMATOR**
**2.5 Machine Tool Kit**
**Part No. 354786-1**

**Note:** The CHAMPOMATOR 2.5 Machine includes plug and receptacle nests, as well as wire setup gauge.

**Table Number 1**

| Connector Size | Tie Bar Part No. |
|---|---|
| 20 Pos. | 762637-1 |
| 26 Pos. | 1-762637-1 |
| 28 Pos. | 1-762637-2 |
| 40 Pos. | 762637-3 |
| 50 Pos. | 762637-4 |
| 60 Pos. | 762637-5 |
| 68 Pos. | 762637-6 |
| 80 Pos. | 762637-7 |
| 100 Pos. | 762637-9 |
| 120 Pos. | 1-762637-0 |

### Discrete Wire Application Tooling

For low to medium volume production use the AMP Arbor Frame Assembly—**Part No. 58024-1** equipped with Applicator—**Part No. 91291-1** for .032-.035 [0.81-0.89] Conductor Insulation O.D. and Applicator—**Part No. 91291-2** for .029-.032 [0.74-0.81] Conductor Insulation O.D.

**Note:** AMP Arbor Frame Assembly and Applicator Kit must be ordered separately.

**Arbor Frame**
**Part No. 58024-1**
**Equipped with**
**Applicator Part No.**
**91291-☐**

**Note:** All part numbers are RoHS compliant.



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## AMPLIMITE .050 Series Application Tooling, Series III (Continued)

### Cover Closing/ Termination Tooling

**Manual Miniature Applicator Frame Assembly— Part No. 91295-1**

This Frame requires Cover Closing Kit—**Part No. 543508-1**

**Cable Staple Tooling**

To provide cable strain relief use Manual Miniature Applicator Frame Assembly—**Part No. 91295-1**. This Frame requires Staple Insertion Kit—**Part No. 543515-1** to install staples into lower backshells of connector kits and assemblies.

**Miniature Applicator Frame Assembly Part No. 91295-1 Equipped with Cover Closing Kit Part No. 543508-1**

**Staple Insertion Kit Part No. 543515-1 (For use with Miniature Applicator Frame Assembly Part No. 91295-1)**

### AMPLIMITE .050 Series Connector Application Tooling for Use with Wire Lacing Terminating Covers

**Manual Arbor Frame Assembly—Part No. 58024-1**

Equipped with Cover Lacing Assembly—**Part No. 91293-1 (Includes Seating Bars for 50 and 100 Positions)**. See Table 3 for Seating Bar Part Numbers.

Extra Lacing Stations available for use with Lacing Assembly—**Part No. 91293-1** Order Lower Tooling Assembly—**Part No. 543481-1**

**Lower Tooling Assembly Part No. 543481-1**

**Arbor Frame, Part No. 58024-1 Equipped with Cover Lacing Assembly, Part No. 91293-1**

**Note:** AMP Manual Miniature Applicator Frame Assembly, Cover Closing Kit, and Staple Insertion Kit each must be ordered separately by part number.

**Seatings Bars**

**Table Number 3**

| No. of Pos. | Seating Bar Part No. |
|---|---|
| 26 | 543494-2 |
| 50 | 543494-1 |
| 68 | 543502-2 |
| 100 | 543502-1 |

**Notes:** All Tooling must be ordered separately by part number. Two seating bars required per tool assembly.

### Termination Tooling for .025 [0.64] Centerline Ribbon Cable

Used with Manual Arbor Tool **Part No. 91085-2**, or Pneumatic Arbor Tool **Part No. 91112-3** and Universal Base Tool **Part No. 768338-4**.

| No. of Pos. | Plug/Receptacle Upper Tooling Kit |
|---|---|
| 50 | 679235-2 |
| 68 | |

**Note:** All part numbers are RoHS compliant.



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## Shielded AMPLIMITE .050 Series Slimline Connectors

### Product Facts

- **Compact design, profile for the right-angle header 1.230 x .588 [31.24 x 14.94], vertical header 1.230 x .433 [31.24 x 11.00], right-angle stacked headers 1.230 x .803 [31.24 x 20.40]**
- **Housings and covers made of UL 94V-0 rated thermoplastic**
- **Headers are compatible with surface mount reflow solder processes**
- **Header footprint for right-angle and stacked configurations is .100 x .050 [2.54 x 1.27] staggered centerlines**
- **Right-angle and stacked headers feature integral boardlocks for positive board retention and grounding**
- **Stacked headers reduce overall total header volume by 48% and PC board area by 38%**
- **Stacked headers offer optional contact shield for additional EMI/RFI protection**
- **Plugs preloaded with insulation displacement contacts (IDC) provide fast, reliable and economical terminations**
- **Aesthetically designed backshell kits feature easy-to-use finger grip jackscrews to secure mated connectors**
- **Listed and complies with UL 1863, Communication Circuit Accessories, File No. E81956**
- **Certified by Canadian Standards Association File No. 1088108 (LR 7189A-207)**
- **Produced under a Quality Management System certified to ISO 9001**

A copy of the certificate is available upon request

Shielded AMPLIMITE .050 Series, Slimline Connectors answer today's industry requirement for higher density in a smaller overall package. The present line consists of 26 position, shielded right-angle, 26 position right-angle stacked PCB receptacle header, and mating 26 position plug connectors. All header, plug and backshell housings are made of UL 94V-0 rated thermoplastic. PCB headers are compatible with surface mount reflow solder processes. Right-angle and stacked PCB headers feature con-tact footprints on .100 x .050 [2.54 x 1.27] staggered centerlines.

The compact design of the **right-angle header** package measures only 1.230 W x .588 D x .300 H [31.24 W x 14.94 D x 7.62 H] for maximum board real estate conservation. Right-angle PCB headers feature integral boardlocks for positive board retention and grounding.

**Right-angle stacked headers** provide 52 contacts in a package only .635 [16.13] high, allowing parallel (board-over-board) board spacing of .800 [20.32]. Centerlines between the top connector and the bottom connector measure .335 [8.51] when compared to .400 [10.16] on the standard .050 Series stacked headers. This results in an over-all reduction of total header volume, in comparison to the standard AMPLIMITE .050 Series header, of 48%, and a comparative reduction in PC board area of 38%.

**Stacked header board retention and stabilization** is provided by two boardlocks and four grounding posts. In addition, an optional rear contact shield is available for additional EMI/RFI protection.

**The mating plug connector** consists of a thermoplastic housing, preloaded with insulation displacement contacts (IDC) for fast, reliable terminations that offer greater applied cost savings. TE offers a choice of termination equipment to meet your production requirements.

**The backshell hardware kit** includes a two-piece, aesthetically designed, thermoplastic cover over an inner and outer shield and two, high strength #2-56 male jackscrews with insulated heads (easy finger grip caps) to secure mated connectors.

The AMPLIMITE .050 Series, Slimline family of connectors offers **keyed coupling**. This feature eliminates the problem of mismatch mating of plug and receptacle, particularly in stacked applications.



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## Shielded AMPLIMITE .050 Series Slimline Connectors (Continued)

### Right-Angle Header, Receptacle

**Part No. 750823-1**

### Material and Finish

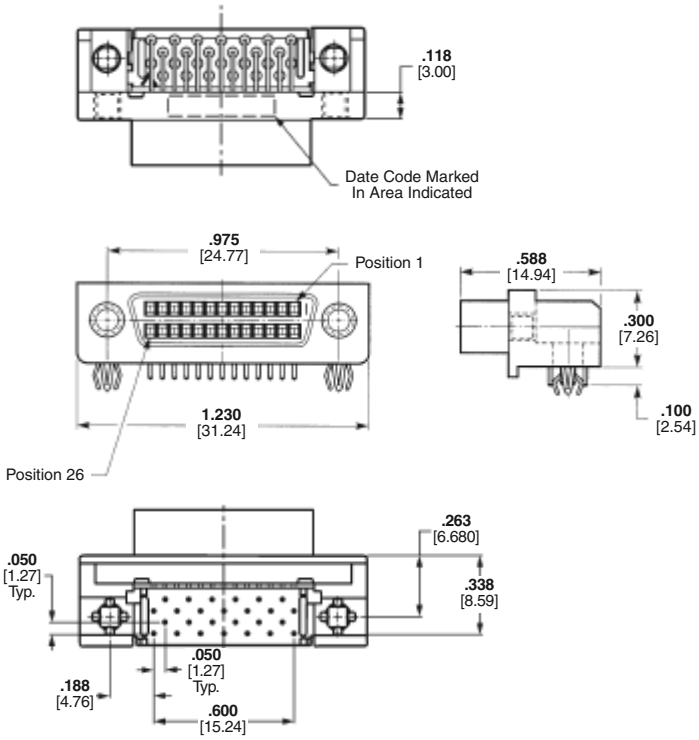
**Housing**—UL 94V-0 rated thermoplastic, black

**Bracket**—Zinc, plated tin or tin over copper

**Metal-Shell**—Carbon steel, plated tin over copper

**Boardlocks**—Copper alloy, tin plated

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, tin plated on solder end, all over nickel




**Notes:**

1. Rear panel mounting only.
2. Female screwlocks to be used with connectors mounted to panels having a thickness of .047 [1.19].
3. **See Application Specification 114-40036 for the most up-to-date detailed panel cutout and recommended PC Board hole pattern.**
4. Female screwlocks are not included with receptacles and must be ordered separately. See page 33 for screwlock kit information.

**Note:** All part numbers are RoHS compliant.



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## Shielded AMPLIMITE .050 Series Slimline Connectors (Continued)

### Shielded Right-Angle Stacked Header, Receptacle

With Shielding

Without Shielding

### Material and Finish:

**Housing**—UL 94V-0 rated thermoplastic, black

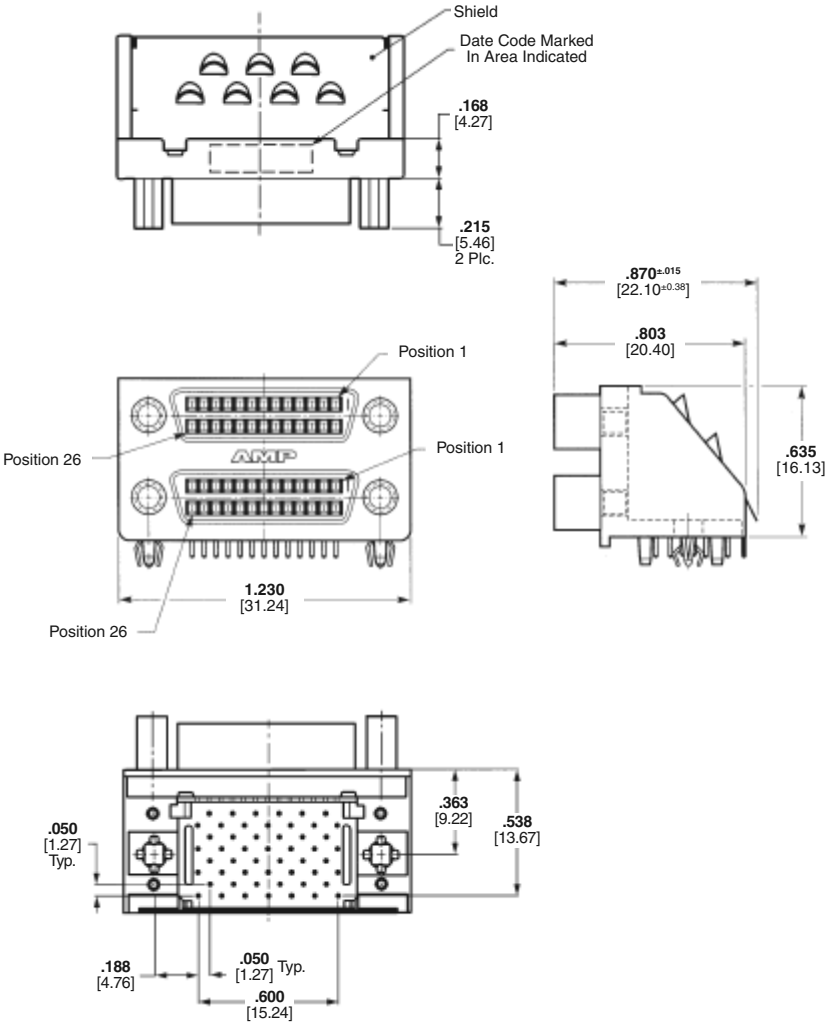
**Bracket**—Zinc, plated tin over copper

**Metal-Shell**—Carbon steel, plated tin over copper

**Boardlocks**—Copper alloy, tin plated

**Contact Shield**—Phosphor bronze, plated tin

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. on mating end, tin plated on solder end, all over nickel




Shielded Header with Rear Contact Shield

| No. of Positions | Part Numbers | | | |
|---|---|---|---|---|
| | Std. Rcpt. without Rear Contact Shield | | Rcpt. with Rear Contact Shield[3] | |
| | Keyed[1] | Unkeyed[2] | Keyed[1] | Unkeyed[2] |
| 26/26 | — | 5786200-1 | 5750821-1 | 5750820-1 |

[1]Lower header unkeyed with 4-40 threaded holes, upper header keyed in keying position 1. See page 33 for keying code.
[2]Both headers unkeyed with 4-40 threaded holes.
[3]Receptacle includes a metal contact shield for added RFI protection to the rear of the receptacle assembly.

**Note: See Application Specification 114-40036 for the most up-to-date detailed panel cutout and recommended PC Board hole pattern.**

**Note:** All part numbers are RoHS compliant.



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## Shielded AMPLIMITE .050 Series Slimline Connectors (Continued)

### Cable Connector, Plug

**Part No. 750833-1**

**Material and Finish:**

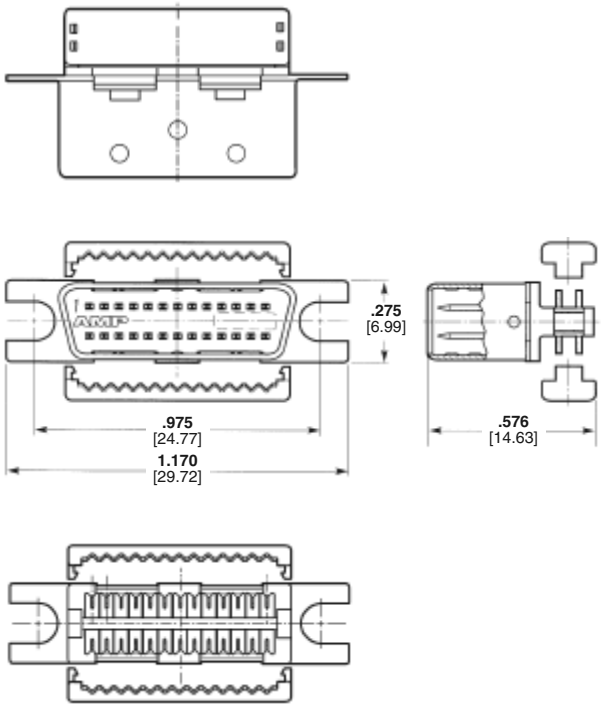
**Housing and Termination Covers**—UL 94V-0 rated thermoplastic, black

**Shell**—Steel, plated bright tin over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end, bright tin on termination end, all underplated nickel

**Bracket**—Zinc, plated nickel over copper

**Recommended Wire Size**—28 AWG [0.08 mm²] with max. O.D. .032 [0.813]. PVC or polyolefin insulation.




**Note:** Cable Connectors must be used with Backshell Kits. See page 34.

### Keying Code, Receptacle

### Keying Code, Plug

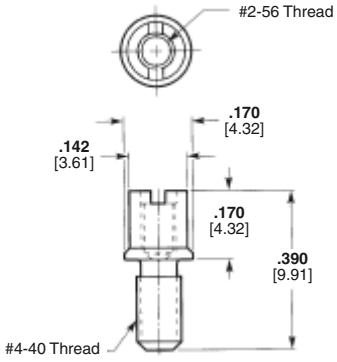
**Position 1 (Up)**

### Accessories

### Female Screwlock Kit

**Material**—Stainless Steel

**Note:** Female screwlocks to be used with connectors mounted to panels having a thickness of .047 [1.19]




| Part No. | Packaging |
|---|---|
| 750831-1 | Individually Packed Kit (2 Screwlocks per kit) |

*Minimum order is 510 kits.

**Note:** All part numbers are RoHS compliant.



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Revised 4-12

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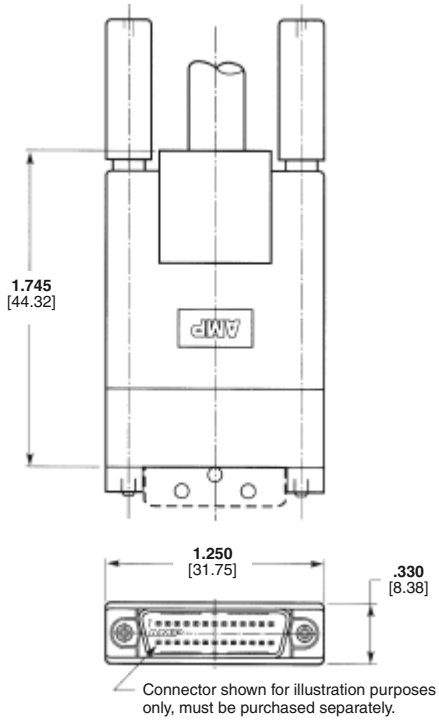
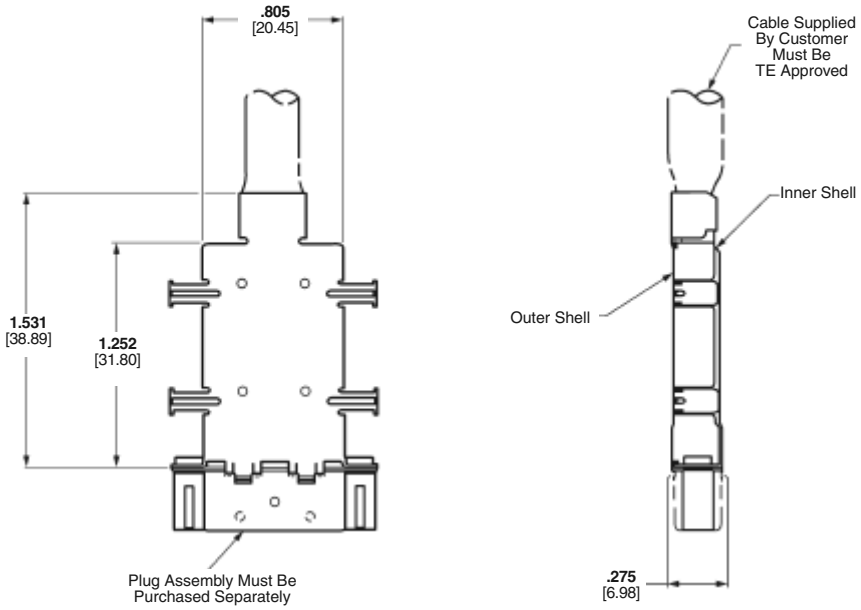
## Shielded AMPLIMITE .050 Series Slimline Connectors (Continued)

### Backshell Kits

### Material and Finish:

**Backshells**—Copper-nickel alloy
**Jackscrews**—Steel, plated tin over copper, handles covered with ABS, gray
**Keyed and Unkeyed Inserts**—Zinc, plated tin over copper
**Outside Covers**—ABS, gray




**Backshell Kits**

| Unkeyed Kit Part No. | Cable Dia. | Packaging* |
|---|---|---|
| 750850-1 | **.250-.280** 6.35-7.11 | Individually Packed Kit |
| 750850-2 | | Bulk Packed Kit |
| 750850-3 | **.280-.310** 7.11-7.87 | Individually Packed Kit |

*Bulk packaging—100 kits per box.

**Note:** All part numbers are RoHS compliant.



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# Shielded AMPLIMITE .050 Series Slimline Connectors, Application Tooling

## Discrete Wire Application Tooling

To meet medium to high volume production of discrete wire terminations, TE offers the following tooling:

The CHAMPOMATOR Model 2.5 Bench Terminating Machine—**Part No. 354786-1,** used in conjunction with Control Module—**Part No. 852423-□,** and Tie Bar—**Part No. 1-762637-3.**

**Note:** CHAMPOMATOR 2.5 Machine and Control Module must be ordered separately by part number.

**Control Module**
**Part No. 852423-1 120 VAC**
**852423-2 100 VAC**
**852423-3 230 VAC**

**CHAMPOMATOR**
**2.5 Machine**
**Part No. 354786-1**

**26 Position**
**Tie Bar**
**1-762637-3**

### Wire Setup Gauge

| Wire Insulation Dia. | | Part No. |
|---|---|---|
| in. | mm | |
| .026-.028 | 0.66-0.71 | 763382-3 |
| .029-.031 | 0.74-0.79 | 763382-4 |
| .032-.035 | 0.81-0.89 | 763382-5 |

## Discrete Wire Application Tooling

For low to medium volume production use the TE Arbor Tool—**Part No. 58024-1** equipped with Applicator—**Part No. 91291-1** and Special Locator—**Part No. 543506-1.**

**Arbor Tool**
**Part No. 58024-1**
**Equipped with**
**Applicator Part No.**
**91291-1**

**Staple Insertion Kit**
**Part No. 543515-1**
**(For use with Miniature Applicator**
**Frame Assembly**
**Part No. 91295-1)**

## Cable-to-Shell Staple Tooling (For discrete wire jacketed cable only)

To meet medium to high volume production use TE Pneumatic Crimper—**Part No. 312522-3** equipped with Die Holder Assembly—**Part No. 58449-1** and Die—**Part No. 90437-1** to crimp outer backshells onto inner backshells of connector kits and assemblies.

For low volume use Manual Arbor Tool—**Part No. 91085-2,** equipped with Backshell Crimper Assembly Tool—**Part No. 856684-1.**

**Pneumatic Bench Tool**
**No. 312522-3**
**(Requires Die Set Holder**
**No. 58449-1)**

**Miniature Applicator Frame Assembly**
**Part No. 91295-1**
**Equipped with Cover Closing Kit**
**Part No. 543508-1**

## Backshell Tooling and Cover Tooling

To assemble backshell into plastic housing use Manual Miniature Applicator Frame Assembly—**Part No. 91295-1** equipped with **Part No. 543521-1**. To assemble upper cover on lower cover use **Part No. 91295-1** equipped with **Part No. 543522-1**.

**For tooling information call**
**Tooling Assistance Center**
**1-800-722-1111.**

**Note:** All part numbers are RoHS compliant.



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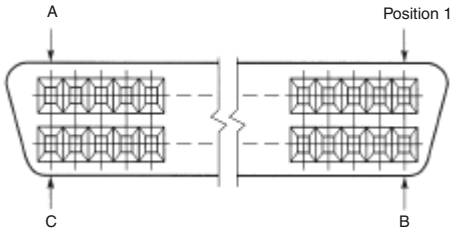
## Shielded AMPLIMITE .050 Series Contact Arrangements, Performance Specifications, Technical Documents—Slimline Connectors

### Contact Arrangements




**Note:** Mating face of receptacle is shown, plug is mirror image.

| No. of Pos. | Position No. | | |
|---|---|---|---|
| | A | B | C |
| 26 | 13 | 14 | 26 |

### Performance Specifications

**Mating Cycles (Durability):** 500 max.
**Current Rating (30°C T-Rise):** 1A max., 50% loading
**Termination Resistance (Mated):** 25 milliohms max.
**Insulation Resistance:** 1000 megohms min.
**Dielectric Withstanding Voltage:** 500 VAC
**Header Processing Temperature:** +220°C max. for 3 minutes
**Temperature Range:** –55°C to +105°C

### Technical Documents

**Product Specifications** describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-1366 Shielded AMPLIMITE .050 Series, Slimline Connectors

**Application Specifications** describe requirements for using the product in its intended application and/or termination information. They are intended for the Packaging and Design Engineer and the Setup person.

114-40036 Shielded AMPLIMITE .050 Series, Slimline Connectors

**Instruction Sheets** provide instructions for assembling or applying product. They are intended for Manufacturing Assembler or Operator.

408-9663 Mass Insertion Tooling–**Part No. 91291-□**
408-6923 AMP Manual Arbor Frame–**Part No. 58024-1**
408-9701 Wire Termination Tooling Kit for CHAMPOMATOR 2.5 Machine–**Part No. 1-762661-4**
408-7777 AMP Manual Arbor Frame w/Slide–**Part No. 91085-2**
408-9746 Crimper Assembly–**Part No. 856684-1**
408-9200 Single Wire Insertion Tool–**Part No. 58430-1**
408-9721 Die Holder Assembly for Pneumatic Crimper–**Part No. 58449-□**
408-9788 Die Assembly–**Part No. 90437-1**
408-9898 Backshell and Cover Tooling Assemblies–**Part No. 543521-1** and **543522-1**

**Customer Manuals** provide information on TE termination equipment. They are intended for Manufacturing Assemblers or Operators.

409-5786 CHAMPOMATOR 2.5 Machine
409-5791 CHAMPOMATOR 2.5 Control Module–**Part No. 852423-□**
409-5822 Pneumatic Crimper–**Part No. 312522-3**
409-5843 Pneumatic Power Unit

**Note:** All part numbers are RoHS compliant.



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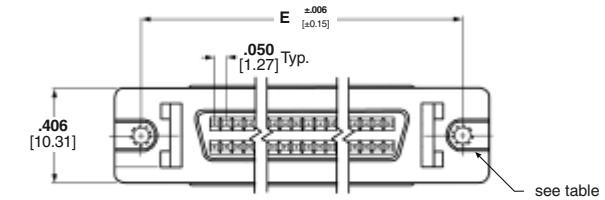
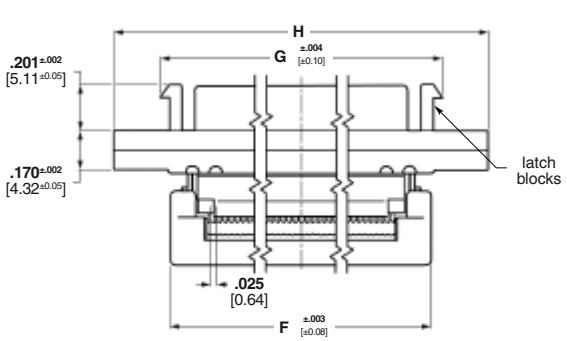
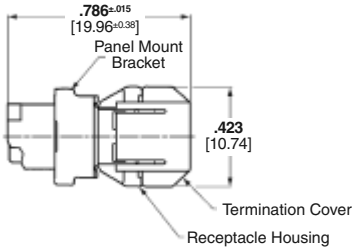
# AMPLIMITE .050 Series Panel Mount Receptacle Assemblies for .025 [0.64] Centerline Ribbon Cable, Series III




## Materials:

**Housing and Termination Covers**—Thermoplastic, 94V-0 rated, black

**Shell**—Steel, plated bright tin over copper

**Bracket**—Zinc, plated nickel over copper

**Contacts**—Phosphor bronze, duplex plated .000030 [0.00076] min. gold on mating end; tin on solder end; all nickel underplated

**Recommended wire size**—.025 [0.64] centerline, 30 AWG [0.05mm²] and 32 AWG [0.03mm²] solid or 7 strand, PVC, flat ribbon cable. Selection of compatible ribbon cable is the responsibility of the user.

## Technical Documents:

**See customer drawings for Product Performance criteria.**

- **Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476**
- **Certified by Canadian Standards Association, File No. LR 7189**

| No. of Pos. | Dimensions | | | | Gold Plating | Mating Hardware | Part No. |
|---|---|---|---|---|---|---|---|
| | E | F | G | H | | | |
| 50 | **1.831** 46.50 | **1.602** 40.70 | N/A | **2.066** 52.47 | 15µ | w/ 4-40 threaded holes | 1-5390378-5 |
| | **1.831** 46.50 | **1.602** 40.70 | N/A | **2.066** 52.47 | 30µ | w/ 4-40 threaded holes | 5390378-5 |
| | **1.831** 46.50 | **1.602** 40.70 | **1.664** 42.27 | **2.066** 52.47 | flash | w/ latch blocks and 4-40 threaded holes | 2-5390399-5 |
| | **1.831** 46.50 | **1.602** 40.70 | **1.664** 42.27 | **2.066** 52.47 | 15µ | w/ latch blocks and 4-40 threaded holes | 1-5390399-5 |
| | **1.831** 46.50 | **1.602** 40.70 | **1.664** 42.27 | **2.066** 52.47 | 30µ | w/ latch blocks and 4-40 threaded holes | 5390399-5 |
| | **1.831** 46.50 | **1.602** 40.70 | **1.664** 42.27 | **2.066** 52.47 | 30µ | w/ latch blocks and 2-56 threaded holes | 5390379-5 |
| 68 | **2.281** 57.93 | **2.018** 51.50 | N/A | **2.516** 63.90 | 15µ | w/ 4-40 threaded holes | 1-5390378-7 |
| | **2.281** 57.93 | **2.018** 51.50 | N/A | **2.516** 63.90 | 30µ | w/ 4-40 threaded holes | 5390378-7 |
| | **2.281** 57.93 | **2.018** 51.50 | **2.114** 53.70 | **2.516** 63.90 | flash | w/ latch blocks and 4-40 threaded holes | 2-5390399-7 |
| | **2.281** 57.93 | **2.018** 51.50 | **2.114** 53.70 | **2.516** 63.90 | 15µ | w/ latch blocks and 4-40 threaded holes | 1-5390399-7 |
| | **2.281** 57.93 | **2.018** 51.50 | **2.114** 53.70 | **2.516** 63.90 | 30µ | w/ latch blocks and 4-40 threaded holes | 5390399-7 |

**Note:** Termination Tooling: Manual Arbor Press Part No. 91085-2 or Pneumatic Press Part No. 91112-3, Universal Base Tool Part No. 768338-4, and Connector Specific Kit Part No. 1490479-1.

**Note:** All part numbers are RoHS compliant.



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