













Interfaces

Product Facts

- Pins and sockets have low insertion force
- High current ratings with very low resistance
- All plated products are gold or silver plated
- Louvertac bands have a temperature range from -196°C to +200°C available
- Formed bands are available for up to 1.250 [31.75] pin diameter

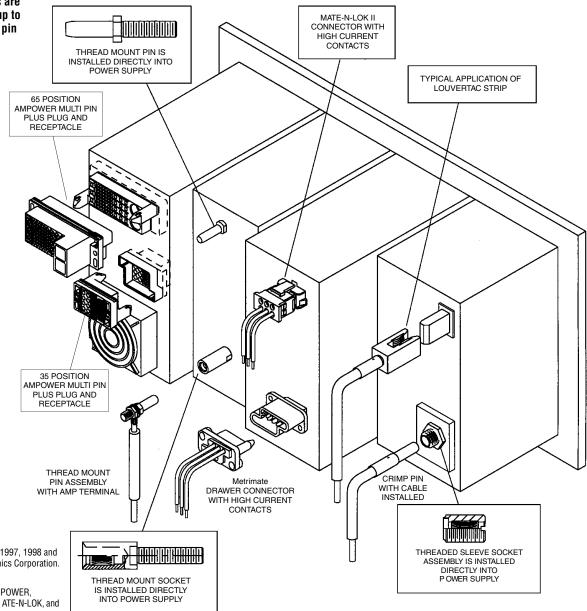
The transfer of high current with manageable insertion and withdrawal forces has always presented a challenge to the connector industry.

Louvertac bands provide a unique means of transferring high amperage with a resultant space and weight savings. Tyco Electronics Corporation offers a wide

range of pin and socket sizes for your applications. Strip and formed Louvertac bands are also offered for customer use in their own contact design. The wide variety of flat and formed male and female bands provide the ability to design electrical connections more inexpensively and quickly.

Louvertac products are your high current applications solution.

The variety of pins and sockets available from Tyco **Electronics Corporation** provide a quick and simple solution to most high current applications.



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Need more information?

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The Center is staffed with specialists well versed in all AMP products. The Center can provide you with:

Technical Support
Catalogs
Technical Documents

- Product Samples
- Authorized Distributor Locations



Thread Mount Socket and Pin Assembly

Thread Mount Sockets

These sockets are designed for easy installation and removal. The large variety of sizes have ratings from 30 continuous amps and can be mated with Thread Mount Pins and Crimp Pins.

Material

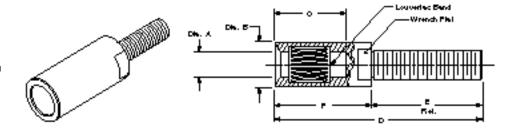
Body — Brass

Louvertac Band — Beryllium Copper

Finish

See Table

Body — Silver Louvertac Band —



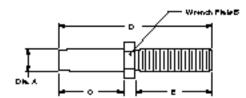
| Matina | Dowt | | Contin. Voltage | | | | | Louvertac | | | |
|--------------------|----------------|---------|------------------|--------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|-----------------|
| Mating Pin Dia. | Part Number | Thread | Current (Amp) | Drop (mV) | A Dia. | B Dia. | С | D | E Ref. | F | Band Plating |
| 2 mm | 192059-1 | M3x0.5 | 30 | 12 | .080 2.0 | .220 5.6 | .670 17.0 | 1.42 36.1 | . 630 16 | .790 20.1 | Silver |
| 4 mm | 192129-1 | 10-32 | 60 | 10 | . 160 4.1 | .280 7.1 | .790 20.1 | 2.00 50.8 | 1.00 25.4 | 1.00 25.4 | Gold |
| 6 mm | 192211-1 | 1/4-28 | 100 | 11 | .240 6.1 | .410 10.4 | .800 20.3 | 2.09 53.1 | 1.00 25.4 | 1.09 27.7 | Gold |
| 8 mm | 192271-1 | 5/16-24 | 185 | 12 | .320 8.1 | .560 14.2 | 1.40 35.6 | 3.07 78 | 1.42 36.0 | 1.65 41.9 | Silver |

Thread Mount Pins

These pins are designed for thread mount. The large variety of sizes have ratings from 30 continuous amps and are designed to be mated with Thread Mount Sockets, Threaded Sleeve Sockets and Crimp Sockets.

Material — Brass **Finish** — Silver





| Di- | Dont | | Contin. | | Dimensions | | | | |
|-------------|----------------|---------|------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--|
| Pin Dia. | Part Number | Thread | Current (Amp) | A Dia. | В | С | D | E Ref. | |
| 2 mm | 192085-1 | M3x0.5 | 30 | .080 2.0 | .16 4.1 | .65 16.5 | 1.40 35.6 | .63 15.0 | |
| 4 mm | 192161-1 | 10-32 | 60 | .160 4.1 | .25 6.4 | .77 19.6 | 1.91 48.5 | .99 25.1 | |
| 6 mm | 192244-1 | 1/4-28 | 100 | .240 6.1 | .31 7.9 | .77 19.6 | 2.03 51.6 | 1.11 25.2 | |
| 8 mm | 192293-1 | 5/16-24 | 185 | .320 8.1 | .44 11.2 | 1.30 33.0 | 2.95 74.9 | 1.47 37.3 | |



Threaded Sleeve Socket Assembly and Application

Threaded Sleeve Sockets

The Threaded Sleeve Socket Assembly is designed for High Current in a restricted space. The Sleeve can be screwed directly into a threaded bus bar or it may be inserted into a drilled hole in the bus bar with tightened nuts on each side of the bus bar. A Crimp Pin or Thread Mount Pin can be attached to a cable for the completed connector.

Material

Body — Brass

Louvertac Band — Beryllium Copper

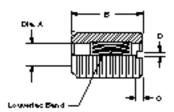
Finish

Body — Silver

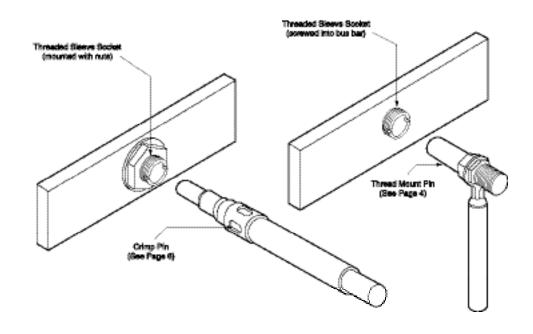
Louvertac Band —

See Table





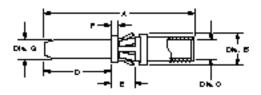
| Matina | Part | | Contin. | Voltage | | Dimer | nsions | | Louvertac |
|--------------------|------------|-------------------|------------------|--------------|---------------------|---------------------|---------------------|--------------------|-----------------|
| Mating Pin Dia. | Number | Thread | Current (Amp) | Drop (mV) | A Dia. | В | С | D | Band Plating |
| 2 mm | 1-192447-0 | 5/16-32 | 30 | 12 | .090 2.3 | .650 16.5 | .060 1.5 | .060 1.5 | Silver |
| 4 mm | 192447-8 | 5/16-32 | 60 | 10 | .160 4.1 | .770 19.6 | .060 1.5 | .060 1.5 | Gold |
| 6 mm | 192447-2 | 1/2-20 | 100 | 11 | .240 6.1 | .770 19.6 | .078 2.0 | .078 2.0 | Gold |
| 8 mm | 1-192447-8 | 9/16-18 | 185 | 12 | .320 8.1 | 1.35 34.3 | .100 2.5 | .100 2.5 | Silver |
| 12 mm | 1-192447-2 | 3/4-16 UNF -2A | 290 | 13 | .479 12.2 | 1.34 34.0 | . 130 3.3 | .130 3.3 | Silver |





Crimp Pins

Crimp Pins feature a mechanism for locking the pin into a housing designed by the customer. The 2 mm and 4 mm pins are crimped with a Daniels Hand Crimp Tool. Pin sizes from 6 mm to 8 mm may be crimped with the indicated tooling and a DYNA-CRIMP 69120-1 electric-hydraulic power unit. The large variety of sizes have ratings from 24 continuous amps and can be mated with Thread Mount Socket Assemblies, Threaded Sleeve Socket Assemblies or Crimp Sockets.





Material

Body — Copper Alloy Retention Spring — Stainless Steel or Beryllium Copper

Finish

Body — Silver

| Pin | Part | Contin. | Voltage | | Dimensions | | | | | | | Tooling Part Numbers | | | |
|------|----------|---------|------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|--------------------|-----------|----------------------|--------------|---------------|--------------------|
| Dia. | No. | No | Current (Amp) | Drop (mV) | Α | B Dia. | C Dia. | D | E | F | G Dia. | Use with AWG | Crimp Die | Crimp Head | Extraction Tool |
| 0 | 193837-1 | 24 | 10 | 1.40 35.6 | .225 5.72 | .100 2.54 | .640 16.3 | .211 5.36 | .050 1.27 | .080 2.0 | 14 | M310 | TP1019 | 318813-1 | |
| 2 mm | 193837-1 | 30 | 12 | 1.40 35.6 | .225 5.72 | .100 2.54 | .640 16.3 | .211 5.36 | .050 1.27 | .080 2.0 | 12 | M310 | TP1019 | 318813-1 | |
| | 193837-2 | 44 | 8 | 1.53 38.9 | .300 7.6 | .145 3.7 | .750 19.1 | .211 5.36 | .050 1.27 | .160 4.0 | 10 | M310 | TP1020 | 679916-1 | |
| 4 mm | 193837-3 | 60 | 8 | 1.53 38.9 | .300 7.6 | .181 4.60 | .750 19.1 | .211 5.36 | .050 1.27 | .160 4.0 | 8 | M310 | TP1020 | 679916-1 | |
| 0 | 193837-4 | 76 | 9 | 1.64 41.7 | .410 10.4 | .235 5.97 | .760 19.3 | .211 5.36 | .050 1.27 | .240 6.0 | 6 | 69133-1 | 69099 | 679917-1 | |
| 6 mm | 193837-5 | 100 | 9 | 1.73 43.9 | .410 10.4 | .290 7.37 | .760 19.3 | .211 5.36 | .050 1.27 | .240 6.0 | 4 | 69134-2 | 69099 | 679917-1 | |
| 8 mm | 193837-6 | 135 | 10 | 2.50 63.5 | .570 14.5 | .390 9.91 | 1.30 33.0 | .211 5.36 | .050 1.27 | .320 8.0 | 2 | 46765-3 | 69099 | 679918-1 | |
| | 193837-7 | 185 | 12 | 2.63 66.8 | .570 14.5 | .487 12.37 | 1.30 33.0 | .211 5.36 | .050 1.27 | .320 8.0 | 1/0 | 46766-2 | 69099 | 679918-1 | |

Notes: 1. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.

^{2.} Application Specification — 114-16022



Crimp Sockets

Crimp Sockets feature a mechanism for locking the socket into a housing designed by the customer. An AMP extraction tool is offered to remove the contact. The 2 mm and 4 mm sockets are crimped with a Daniels Hand Crimp Tool. Socket sizes from 6 mm to 8 mm may be crimped with the indicated tooling and a DYNA-CRIMP 69120-1 electric-hydraulic power unit. The large variety of sizes have ratings from 24 continuous amps and can be mated with Thread Mount Pins or Crimp Pins.

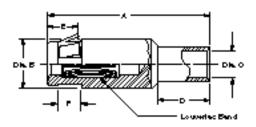
Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel or Beryllium Copper

Finish

Body — Silver

Louvertac Band — Silver





| Mating | Part | Contin. | Voltage | | | Dime | nsions | | | Use | Tooling Part Numbers | | |
|-------------|------------|------------------|--------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|-------------|----------------------|---------------|--------------------|
| Pin Dia. | No. | Current (Amp) | Drop (mV) | Α | B Dia. | C Dia. | D | E | F | with AWG | Crimp Die | Crimp Head | Extraction Tool |
| • | 193673-1 | 24 | | .211 5.36 | .209 5.31 | 14 | M310 | TP1021 | 318813-1 | | | | |
| 2 mm | 193673-1 | 30 | 12 | 1.13 28.7 | .230 5.8 | .100 2.54 | .420 10.7 | .211 5.36 | .209 5.31 | 12 | M310 | TP1021 | 318813-1 |
| 4 | 193673-2 | 44 | 8 | 1.31 33.3 | .300 7.6 | .145 3.68 | .400 10.2 | .211 5.36 | .209 5.31 | 10 | M310 | TP1022 | 679916-1 |
| 4 mm | 193673-3 | 60 | 8 | 1.31 33.3 | .300 7.6 | .181 4.60 | .410 10.4 | .211 5.36 | .209 5.31 | 8 | M310 | TP1022 | 679916-1 |
| 0 | 193673-4 | 76 | 9 | 1.42 36.1 | .410 10.4 | .235 5.97 | .460 11.7 | .211 5.36 | .209 5.31 | 6 | 69133-1 | 69099 | 679917-1 |
| 6 mm | 193673-5 | 100 | 9 | 1.48 37.6 | .410 10.4 | .290 7.37 | .530 13.5 | .211 5.36 | .209 5.31 | 4 | 69134-2 | 69099 | 679917-1 |
| • | 193673-6 | 135 | 10 | 2.26 57.4 | .570 14.5 | .390 9.91 | .640 16.3 | .211 5.36 | .209 5.31 | 2 | 46765-3 | 69099 | 679918-1 |
| 8 mm | 193673-7 | 185 | 12 | 2.45 62.2 | .570 14.5 | .487 12.37 | _ | .211 5.36 | .209 5.31 | 1/0 | 46766-2 | 69099 | 679918-1 |
| 12 mm | 193673-8 | * 290 | 13 | 2.51 63.7 | .795 20.19 | .541 13.74 | .930 23.62 | _ | _ | 2/0 | 46767-2 | 69099 | _ |
| 20 mm | 1-193673-2 | * 480 | 11 | 3.17 80.5 | 1.072 27.23 | .721 18.31 | 1.24 31.50 | _ | _ | 250 MCM | 46751-2 | 69099 | _ |

^{*} Socket contact uses retention ring (not supplied) for locking contact in housing. See Application Specification 114-16022 for details.

Notes: 1. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.

2. Application Specification — 114-16022



High Current Upgrade Program — Metrimate Drawer Connector Contacts, Size 8

The Louvertac bands have the versatility of being designed into contact dimensions used in existing AMP connectors.

Metrimate High Current contacts have been designed to fit into the existing Drawer Connector housings. A fully energized 8 position connector with 8 gage wires can handle 30 amps per line with a 30°C T-rise on either the cable-to-cable or cable-to-board.

Cable-to-Cable

Material

Contact Body — Copper Alloys Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel Finish — Gold

Product Specification

108-1449 Metrimate Pin and Socket with Louvertac High Current Contact

Connector Voltage Rating — 600 VAC

- Recognized under the Component Program of Underwriters
 Laboratories Inc.,
 File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A

Standard Size 8 Pin Standard Size 8 Socket High Current Size 8 Pin

Contacts

| Wire Size | Contact Part Numbers | | Crimp Tools |
|-----------|----------------------|----------|---------------------------------------|
| AWG | Pin | Socket | Crimp roots |
| 8 | 193457-1 | 193458-1 | Daniels |
| 10 | 193642-1 | 193643-1 | Hand Tool #M310 or AMP P/N 356114-1 |
| 12-14 | 193534-1 | 193535-1 | Positioner #TP944 or AMP P/N 356336-1 |

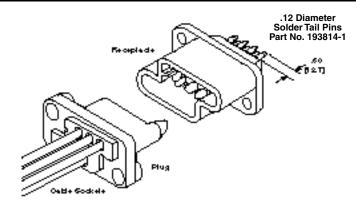
Extraction Tool Part No. 318813-1 or 305183-6

Cable-to-Board Material

Contact Body — Copper Alloys Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel Finish — Gold

A typical application would have solder tail pins mounted into the receptacle and crimp sockets mounted into the plug.

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



Drawer Connector Housings

| Size | Housing Part Numbers | | | | |
|---|----------------------|------------|--|--|--|
| Configuration | Plug | Receptacle | | | |
| 8 Positions (8 Size 8 Cavities) | 213499-1 | 213500-1 | | | |
| 15 Positions (3 Size 8 Cavities & 12 Size 16 Cavities) | 213426-1 | 213427-1 | | | |

Extraction Tool Part No. 318813-1

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82045.



High Current Upgrade Program — Universal MATE-N-LOK II Connectors

The Louvertac bands have the versatility of being designed into contact dimensions used in existing AMP connectors. Universal MATE-N-LOK II High Current contacts have been designed to fit into an existing Universal MATE-N-LOK II housing. In a cable-to-cable application, the initial T-Rise test of a fully energized 2 circuit connector with 10 gage wires has shown a 32 amp capability per line with a 30°C T-rise.

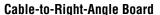
Cable-to-Cable

Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Finish — See Table Latch Disengaging Tool Part No. 58382-1

- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A
- Passed test by VDE under their Registration Number 3915/Continuous Suweillance

Design Objective —108-1583
Application Specification —
114-16021
Connector Voltage Rating —600 VAC



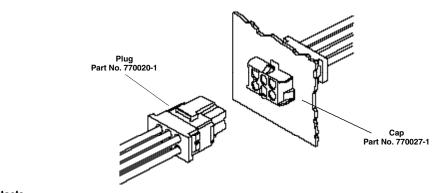
When the Louvertac contacts are used in a cable-to-r/a board application, the initial T-Rise test of a fully energized 2 circuit connector with 10 gage wire and a 2 oz. foil board has shown a 32 amp capability per line with a 30°C T-rise.

Material

Housing — UL 94V-0 Nylon Contact Body — Copper Alloy Louvertac Band — Beryllium Copper Finish — Silver Solder Tail Diameter — .052 [1.32]

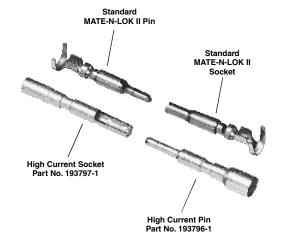
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A
- Passed test by VDE under their Registration Number 3915/Continuous Surveillance

Design Objective —108-1594 **Connector Voltage Rating** — 600 VAC



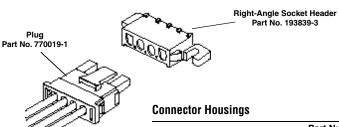
Contacts

| Wire Size | Contact Pa | rt Numbers | Louvertac | O T I- | Lubricated | |
|-----------|------------|------------|--------------|---|------------|--|
| AWG | Pin | Socket | Band Plating | Crimp Tools | | |
| 10 | 193796-1 | 193797-1 | Silver | D ' 1 | No | |
| 12-14 | 193841-1 | 193842-1 | Silver | Daniels Hand Tool #M310 or | No | |
| 12-14 | _ | 193842-3 | Gold | AMP P/N 356114-1, | No | |
| 10 | 194210-1 | 194211-1 | Silver | Positioner #TP1013 or AMP P/N 356337-1 | Yes | |
| 12-14 | 194212-1 | 194213-1 | Silver | AIVIF F/N 330337-1 | Yes | |



Connector Housings

| No. of | Kit Part Numbers | | | | | | |
|----------|------------------|----------|--|--|--|--|--|
| Circults | Plug | Сар | | | | | |
| 2 | 770017-1 | 770024-1 | | | | | |
| 3 | 770018-1 | 770025-1 | | | | | |
| 4 | 770019-1 | 770026-1 | | | | | |
| 5 | 770016-1 | _ | | | | | |
| 6 | 770020-1 | 770027-1 | | | | | |
| 9 | 770021-1 | 770028-1 | | | | | |
| 12 | 770022-1 | 770029-1 | | | | | |
| 15 | 770023-1 | 770030-1 | | | | | |
| | | | | | | | |



| No. of | Part Numbers | | | | | | | | |
|----------|---------------|--|----------------------------|--|--|--|--|--|--|
| Circults | Socket Header | Socket Header with Lubricated Contacts* | Mates with Plug Housing | | | | | | |
| 2 | 193839-1 | 194214-1 | 770017-1 | | | | | | |
| 3 | 193839-2 | _ | 770018-1 | | | | | | |
| 4 | 193839-3 | 194215-1 | 770019-1 | | | | | | |
| 5 | 193839-4 | _ | 770016-1 | | | | | | |

^{*}Mates with plug housing shown and with lubricated MATE-N-LOK II high current pin contacts.

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82181.



High Current Upgrade Program — Universal MATE-N-LOK II Connectors (Continued)

Vertical Pin Headers

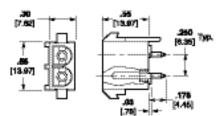
High Current Universal MATE-N-LOK II Vertical Pin Headers are designed to mate with Universal MATE-N-LOK II Plugs with High Current Socket contacts. All housings are polarized to provide for proper circuit board placement. Eight versions are available from 2 circuits to 15 circuits. In a cable-to-vertical board application, the initial T-rise of a fully energized 2 circuit connector with 10 gage wire and a 2 oz. foil board has shown a 36 amp capability per line with a 30°C T-rise.

Material

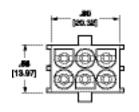
Housing — UL 94V-0 Nylon Contacts — Copper Alloy Solder Tail Diameter — .052 [1.32] Finish — Silver

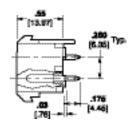
- Recognized under the **Component Program of Underwriters** Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association. File No. LR16455-113
- Passed test by VDE under their Registration Number 3915/Continuous Surveillance

Design Objective -108-1594 Connector Voltage Rating - 600 VAC

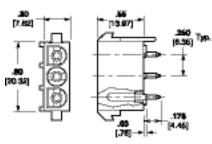


2 Circuit Part No. 194009-1. * Part No. 194269-1 (Lubricated Contacts)

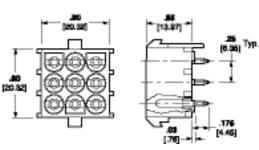




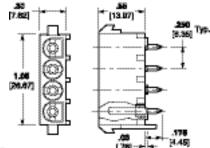
6 Circuit Part No. 194002-1, Part No. 194002-2 (.235 [5.97] Tail Length), Part No. 194002-3 (Tube Packaged), * Part No. 194260-1 (Lubricated Contacts)



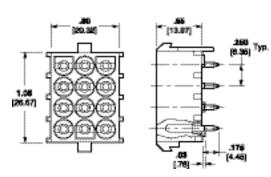
3 Circuit Part No. 194017-1, * Part No. 194610-1 (Lubricated Contacts)



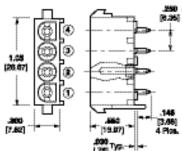
9 Circuit Part No. 194012-1



4 Circuit Part No. 194010-1, * Part No. 194234-1 (Lubricated Contacts)



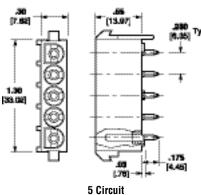
12 Circuit Part No. 194014-1, Part No. 194014-2 (Tube Packaged)



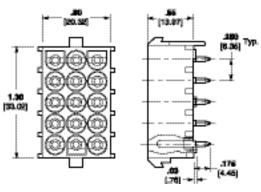
4 Circuit Select Load (See Table)

| Pin | Part No. | | | | | | |
|----------|----------|----------|--|--|--|--|--|
| Location | 194096-2 | 194096-5 | | | | | |
| 1 | S | Н | | | | | |
| 2 | Н | Н | | | | | |
| 3 | S | S | | | | | |
| 4 | S | S | | | | | |

S = Standard MATE-N-LOK II Contact H = High Current MATE-N-LOK II Contact



5 Circuit Part No. 194018-1



15 Circuit Part No. 194013-1

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

- 2. Additional information on connectors is available in Catalog 82181.
- 3. Recommended PC Board Thickness .062 [1.57].

*Mate with MATE-N-LOK II plug housings with lubricated high current socket contacts.



High Current Upgrade Program — Type XII Contacts

The features of the High Current Type XII contact have been designed to fit into the existing AMP Multimate Connectors such as CPC (Circular Plastic Connector), CMC (Circular Metal Connector), G Series, and M Series housings. An initial T-Rise test in free air has shown a 60 amp capability with a 30°C T-Rise with 8 gage wires. The contact may be crimped onto 8 AWG wire with a Daniels Hand Tool M310 or AMP P/N 356114-1 and Positioner TP1068S or AMP P/N 356119-1.

Cable-to-Cable Material

Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring - Stainless Steel **Finish** Body - Silver Louvertac Band — Gold



Extraction Tool Part No. 224155-1

Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 3 position CPC plug P/N 206037-2 and receptacle P/N 206036-2. These initial representative amperage ratings were conducted with 8 AWG wires that were 3 feet long.

■ Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476

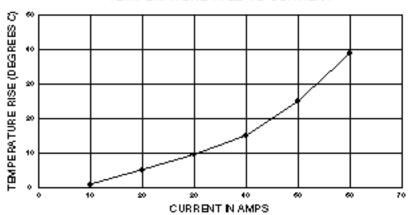


Not recommended for CPC connectors.

Current Rating for 30°C Temperature Rise 100% Energized

3 Circuit Connector (Wire-to-Wire)

TEMPERATURE RISE VS CURRENT





Plug (For Sockets)



Square Flange Receptacle (For Pins)

- Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.
 - 2. Additional information on CPC and CMC connectors is available in Catalog 82021.

 3. Additional information on G Series connectors is available in Catalog 82046.

 - 4. Additional information on M Series connectors is available in Catalog 82003.
 - 5. Additional information on LGH connectors is available in Catalog 82024.



High Current Upgrade Program — Size 16, Type II and Type III+ Contacts

The features of the High Current Size 16 contact have been designed to fit into the existing AMP Multimate Connectors such as CPC (Circular Plastic Connector), CMC (Circular Metal Connector), G Series, M Series, Econoseal Metrimate Square Grid and Drawer Connector housings. An initial T-Rise test in free air has hown a 23 amp capability with a 30°C T-Rise. The contact may be crimped onto 14 AWG wire with an AMP hand tool P/N 601967-1. Use turret TH502 (1-601967-6) for the pin and turret TH501 (1-601967-5) for the socket.

Material

Pin Body — Leaded Brass; Copper Alloy (Board Mount) Socket Body — Copper Alloy Louvertac Band — Beryllium Copper Retention Spring — Stainless Steel Finish

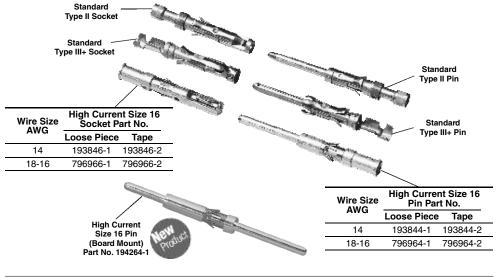
Body—Silver Louvertac Band—Gold



Extraction Tool Part No. 305183

Current-Carrying Capacity. The graph shows current-carrying capacity versus temperature rise for a fully energized 6 position Metrimate Square Grid plug P/N 207152-1 and receptacle P/N 207153-1. These initial representative amperage ratings were conducted with 14 AWG wires that were 2 feet long.

Recognized under the Component Program of Underwriters
Laboratories Inc., File No. E28476



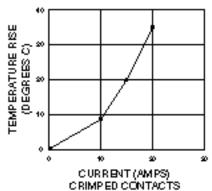


4 Pos. CPC Posted Square Flange Receptacle Part No. 796764-1 Mates with CPC Plug (Part No. 206060-1) with either Type II or High Current Socket contact

Current Rating for 30°C Temperature Rise 100% Energized

6 Circuit Metrimate Connector (Wire-to-Wire)

TEMPERATURE RISE VS. CURRENT















Plug (for Sockets)

Receptacle (for Pins)

Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

- 2. Additional information on CPC and CMC connectors is available in Catalog 82021.
- 3. Additional information on G Series connectors is available in Catalog 82046.
- 4. Additional information on M Series connectors is available in Catalog 82003.
- 5. Additional information on Metrimate connectors is available in Catalog 82045.
- 6. Additional information on Econoseal connectors is available in Catalog 82057.
- 7. Additional information on LGH connectors is available in Catalog 82024.



High Current Upgrade Program — Size 20 Posted Contacts

The High Current Size 20 contact has been designed to fit into the Series 109 AMPLIMITE Connectors per MIL-C-24308

Material

Body — Copper Alloy

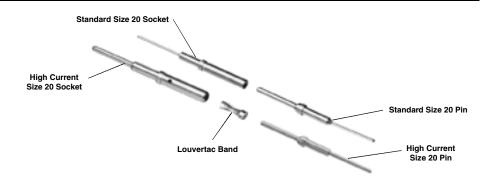
Louvertac Band — Beryllium Copper

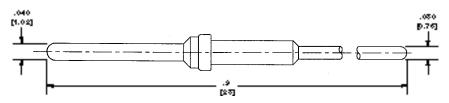
Finish

Body — Gold

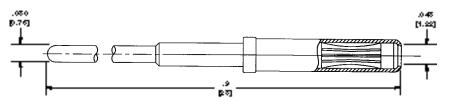
Louvertac Band — Gold

Current-Carrying Capacity. The High Current Size 20 contact with a 20 gage wire attached to the .030 diameter solder tail acquired an initial 30°C T-Rise of 11.85 amps in free air.





Pin Part No. 194081-1



Socket Part No. 194083-1

The contacts can be sold loose piece or installed into any of the MIL Standard connectors.

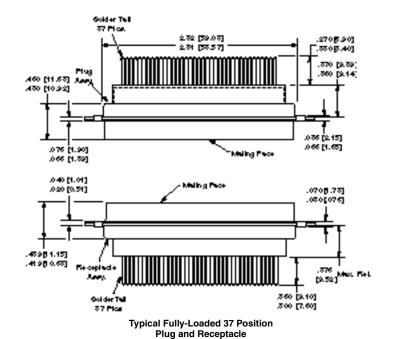


Pin and Socket Insertion/Extraction Tool

Part Number **91067-2** or MIL number **M81969/1-02**

Insertion tip, for replacement Part Number **126195-3**

Extraction tip, for replacement Part Number **126195-4**



Notes: 1. High Current contacts with Louvertac bands are NOT intermateable with any other contact.

2. Additional information on connectors is available in Catalog 82069.



The AMPOWER Multi Pin Plus Connector is manufactured from a

AMPOWER Multi Pin Plus Connector

modular mold that allows the finished housing to be molded into thousands of different contact configurations. Standard modules are offered in 2, 3, 4 and 8 positions with contact amperages ranging from signal to 150 amps. Pin contacts can be installed into the Plug [18.5] W Housing or the Receptacle Housing. Socket contacts can be installed into the Plug Housing or the Receptacle Housing. Any combination of the mod-ules could be selected and molded into a one-piece housing from 1" to 6" long. Custom modules can be designed and molded to fit many other AMP contacts. 8-Position Dimensions shown below are the Multimate Module approximate width of each module. (Signal/Size 16 Contact) The connector can be used in blindmate drawer, wire-to-wire, wire-to-board, and board-to-board applications. End Module End Module 2-Position 9 mm Contact Module 4-Position 3 mm Contact Spacer 3-Position 3 mm End Module AC Contact Module Receptacle 2-Position 9 mm Contact 4-Position Module 3 mm Contact Module Spacer Plug 8-Position Multimate Module (Signal/Size 16 3-Position 3 mm ■ Recognized under the Contact) **Component Program of** End Module **AC Contact** Underwriters Module Laboratories Inc., File No. E28476 ■ Certified by Canadian **Standards** Association,

purposes only.

Dimensions are shown for reference

File No. LR 39825 Product Specification 108-1809

^{*}For example: Using both end modules (always required) and a 2-position 9 mm contact module, a 4-position 3 mm contact module, and two (2) 8-position signal/size 16 contact modules would produce a connector approximately 2.402 [61.0] in length (.492 [12.5] x 2 + .787 [20.0] +.315 [8.0] + .158 [4.0] x 2).



Standard 65-Position Plug and Receptacle Housing

Designed to accept 65 contacts from signal level to 150 amps.

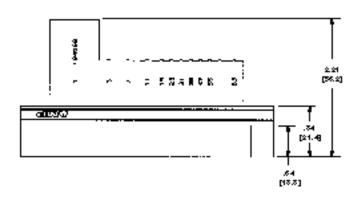
The housing accepts:

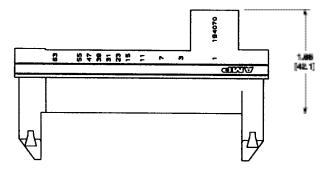
- 2 9 mm Contacts
- 12 3 mm Contacts
- 48 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

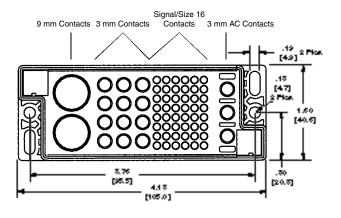
Material — Polyester, UL 94V-0 rating

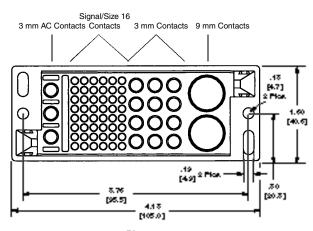
Connector Voltage Rating —

250 VAC









Receptacle 194069-1 (shown) 194069-3 with two 6-32 inserts (Front Mounted)

- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A

Plug 194070-1 (shown) 194070-3 with two 6-32 inserts (Front Mounted)



Standard 35-Position Plug and Receptacle Housing

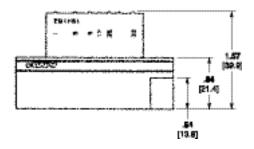
Designed to accept 35 contacts from signal level to 30 amps.

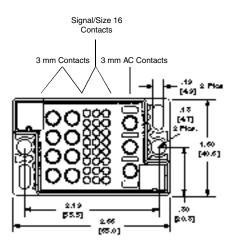
The housing accepts:

- 8 3 mm Contacts
- 24 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

Material — Polyester, UL 94V-0 rating

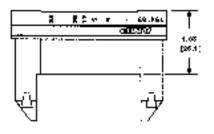
Connector Voltage Rating — 250 VAC

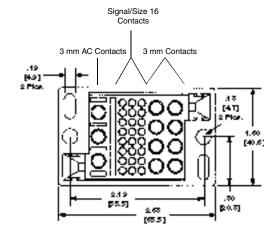




Receptacle 194182-1 (shown) 194182-3 with two 6-32 inserts (Front Mounted)

- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A





Plug 194183-1 (shown) 194183-3 with two 6-32 inserts (Front Mounted)



39-Position Plug and Receptacle Housing

Designed to accept 39 contacts from signal level to 150 amps.

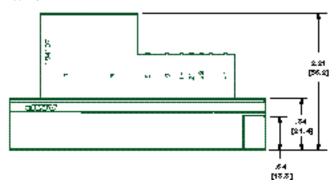
The housing accepts:

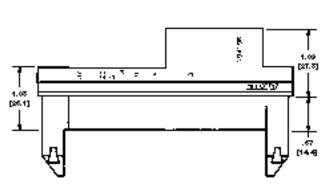
- 4 9 mm Contacts
- 8 3 mm Contacts
- 24 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

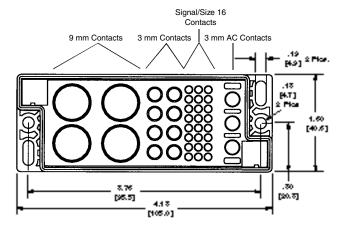
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating —

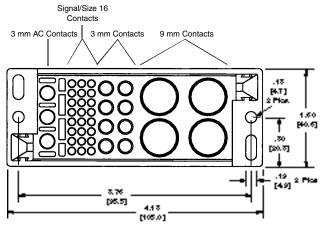
250 VAC







Receptacle 194197-1 (shown) 194197-3 with two 6-32 inserts



Plug 194196-1 (shown) 194196-3 with two 6-32 inserts

- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A



43-Position Plug and **Receptacle Housing**

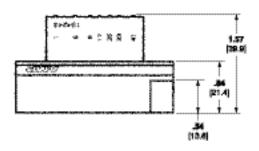
Designed to accept 43 contacts from signal level to 30 amps.

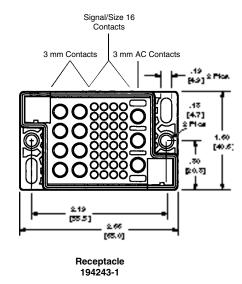
The housing accepts:

- 8 3 mm Contacts
- 32 Signal/Size 16 Contacts
- 3 3 mm AC Contacts

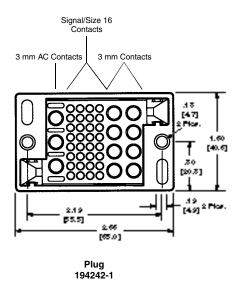
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC





S 2 7 B B - 24248 1.05 [25.4] [14.4]



- Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476
- **■** Certified by Canadian **Standards** Association, File No. LR7189A



35-Position Plug and **Receptacle Housing**

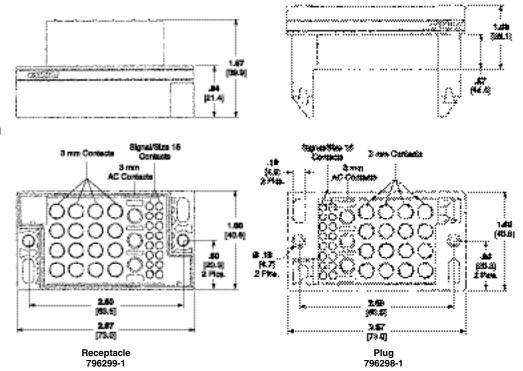
Designed to accept 35 contacts from signal level to 30 amps.

The housing accepts:

- 16 3 mm Contacts 3 3 mm AC Contacts
- 16 Signal/Size 16 Contacts

Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC



28-Position Plug and **Receptacle Housing**

Designed to accept 28 contacts from signal level to 30 amps.

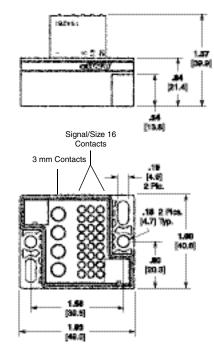
The housing accepts:

- 4 3 mm Contacts
- 24 Signal/Size 16 Contacts

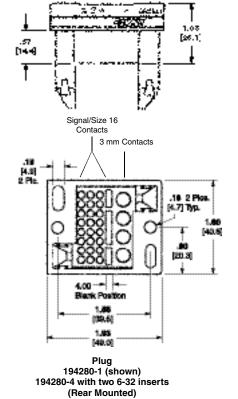
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC

- Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476
- **■** Certified by Canadian **Standards** Association. File No. LR7189A



Receptacle 194281-1 (shown) 194281-4 with two 6-32 inserts (Rear Mounted)





24-Position Plug and Receptacle Housing

Designed to accept 24 contacts from signal level to 30 amps.

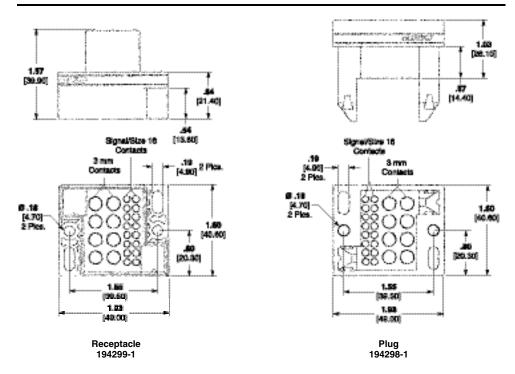
The housing accepts:

8 - 3 mm Contacts

16 - Signal/Size 16 Contacts

Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC



11-Position Plug and Receptacle Housing

Designed to accept 11 contacts from signal level to 30 amps. Circuit positions 9 and 11 of the plug are designed so that the socket contact is recessed 5 mm.

The housing accepts:

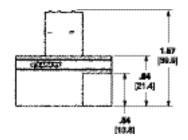
- 3 3 mm AC Contacts
- 8 Signal/Size 16 Contacts

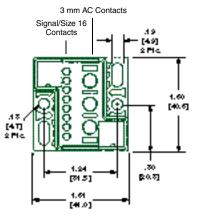
Material — Polyester, UL 94V-0 rating

Connector Voltage Rating — 250 VAC

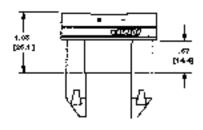
- Recognized under the Component Program of Underwriters
 Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR7189A

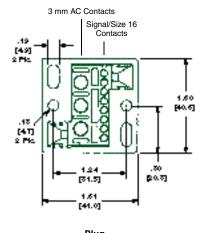
Dimensions are shown for reference





Receptacle 194279-1





Plug 194278-1



2-Position Plug and **Receptacle Housing**

Designed to accept two 150 amp contacts.

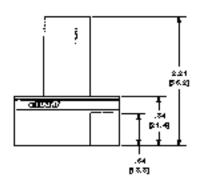
The housing accepts:

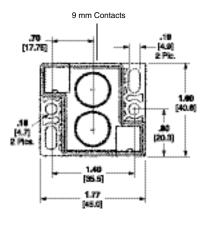
2 - 9 mm Contacts

Material — Polyester, UL 94V-0 rating

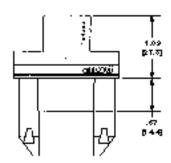
Connector Voltage Rating —

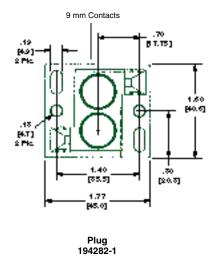
250 VAC





Receptacle 194283-1





- Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476
- **■** Certified by Canadian **Standards** Association, File No. LR7189A



9 mm Pin Crimp Contact

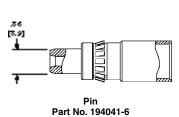
The 9 mm Pin is designed to fit into the 2-Position Module. The Pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with the indicated DYNA-CRIMP 69120-1 electric-hydraulic power unit.

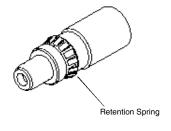
Material

Body — Copper Alloy Retention Spring — Beryllium Copper

Finish

Body - Silver





| Part | Current | Contact | Use with | Too | ing Part Numbers | |
|----------|-----------------|-----------------|----------|--------------|------------------|--------------------|
| No. | Rating (Amp) | Sequence Level* | AWG | Crimp Die | Crimp Head | Extraction Tool |
| 194041-6 | 150 | Third Mate | 1/0 | 46766-2 | 69099 | 662725-1 |

^{*}When used with other AMPOWER Multi Pin Plus Contacts.

9 mm Socket Crimp Contact

The 9 mm Socket is designed to fit into the 2-Position Module. The Socket has a retention spring that locks the contact into the housing cavity. The Socket has a polymer ring and post that helps prevent any finger contact with bare metal surfaces when installed into the Plug or Receptacle housings. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with the indicated DYNA-CRIMP 69120-1 electric-hydraulic power unit.

Material

Body - Copper Alloy

Retention Spring — Beryllium Copper Louvertac Band — Beryllium Copper

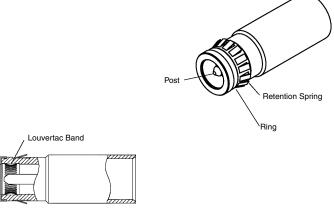
Dimensions are shown for reference

purposes only.

Post and Ring — Acetyl

Finish

Body - Silver



Socket Part No. 194037-2

| Part | Current | | | Tooling Part Numbers | | | |
|----------|-----------------|-----|--------------|----------------------|--------------------|--|--|
| No. | Rating (Amp) | AWG | Crimp Die | Crimp Head | Extraction Tool | | |
| 194037-2 | 150 | 1/0 | 46766-2 | 69099 | 662725-1 | | |

Notes: 1. Additional wire sizes and mating levels available upon request.
2. Additional information on AMPOWER terminal hydraulic crimping is available in Catalog 82025.



9 mm Thread Mount Pin Contact

The 9 mm Pin is designed to fit into the 2-Position Module. The Pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The 1/4-28 threads are provided to mount the contact directly to a bus bar.

Material

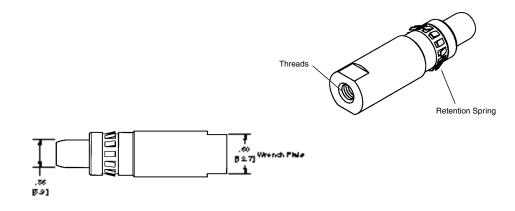
Body — Copper Alloy

Retention Spring — Beryllium Copper

Finish

Body - Silver

Extraction Tool Part No. 662725-1



Pin Part No. 194049-1

9 mm Thread Mount Socket Contact

The 9 mm Socket is designed to fit into the 2-Position Module. The Socket has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The 1/4-28 threads are provided to mount the contact directly to a bus bar.

Material

Body—Copper Alloy

Retention Spring — Beryllium

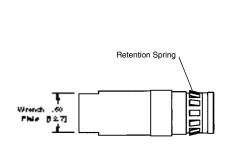
Copper

Post and Ring - Acetyl

Finish

Body - Silver

Extraction Tool Part No. 662725-1



Socket Part No. 194050-1





3 mm Pin Crimp Contact

The 3 mm Pin is designed to fit into the 3- and 4-Position Modules. The pin has a retention spring that locks the contact into the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool.

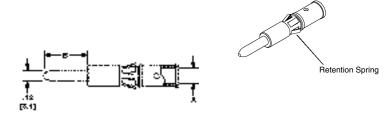
Material

Body—Copper Alloy

Retention Spring — Stainless Steel

Finish

Body - Silver



| Part | Current | Contact | Use with | Dime | nsions | Too | ling Part Num | bers | | | |
|------------|-----------------|-------------|----------|---------------------|----------------------|--------------------|--------------------------|--------------------|--|--|--|
| No. | Rating (Amp) | Sequence | AWG | A | A B | Crimp Hand Tool | Crimp Tool Positioner | Extraction Tool | | | |
| 194189-3 | 15 | First Mate | 12-14 | .100 2.54 | .541 13.75 | | | | | | |
| 194189-6 | 15 | Second Mate | 12-14 | .100 2.54 | .461 11.75 | | | 356335-1 | | | |
| 194189-7 | 30 | Third Mate | 8 | .181 4.60 | .384 9.75 | Maga | TP1124 | | | | |
| 194189-8 | 25 | Third Mate | 10 | .145 3.68 | .384 9.75 | M309 | | | | | |
| 194189-9 | 15 | Third Mate | 12-14 | .100 2.54 | .384 9.75 | | | | | | |
| 1-194189-1 | 30 | First Mate | 8 | .181 4.60 | .541 13.75 | | | | | | |

3 mm Socket Crimp Contact

The 3 mm Socket is designed to fit into the 3- and 4-Position Modules. The Socket has a retention spring that locks the contact into the housing cavity. The Socket has a polymer ring that helps prevent any finger contact with bare metal surfaces when installed into the Plug or Receptacle housings. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool.

Material

Body — Copper Alloy

Retention Spring — Stainless Steel **Louvertac Band** — Beryllium Copper

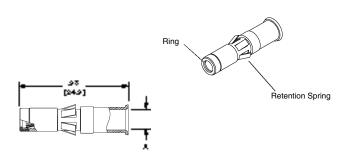
Dimensions are shown for reference

purposes only.

Ring — Acetyl

Finish

Body — Silver



| Part | Current | Use with | Dimension | Tooling Part Numbers | | |
|----------|-----------------|----------|----------------------|----------------------|--------------------------|--------------------|
| No. | Rating (Amp) | AWG | A A | Crimp Hand Tool | Crimp Tool Positioner | Extraction Tool |
| 194032-5 | 30 | 8 | . 181 4.60 | | | |
| 194032-6 | 25 | 10 | .145 3.68 | M309 | TP1125 | 356335-1 |
| 194032-7 | 15 | 12-14 | .100 2.54 | | | |

Note: Additional wire sizes and mating levels available upon request.



3 mm Solder Tail Pin and Socket

A 3 mm Solder Tail Pin and Socket are designed to fit into the 3- and 4-Position Modules. The contacts have a retention spring that locks the contact in the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side.

Material

Body — Copper Alloy

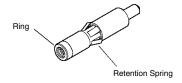
Retention Spring — Stainless Steel

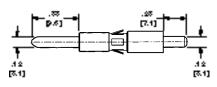
Finish

Body - Silver

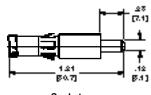
Extraction Tool Part No. 356335-1







Pin Part No. 194251-1



Socket Part No. 194252-1

Type III+ Signal Posted **Contacts** (Replacement Contacts, See Note Below.)

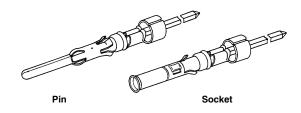
Material

Contact Body and Post - Brass Retention Spring — Stainless Steel

Finish

See chart.

†Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.



Size 16 — Pin Diameter .062 [1.57] (Test Current, 13 Amperes)[†]

| | | | Loose Piece Contact Part No. | | | | |
|-----------------------|-----------------------|-------------------------------|------------------------------|-------------|------------------------|---------|--|
| Termination Method | Post Configuration | Contact Finish | 3 Termination | n High Post | 1 Termination High Pos | | |
| mounou | Comiguration | | Pin | Socket | Pin | Socket | |
| Wron Tuno | .045 x .045 | Sel. Gold/Nickel ¹ | 66471-9 | 66473-9 | 66471-7 | 66473-7 | |
| Wrap-Type | 1.14 x 1.14 | Bright Tin-Lead | 66471-3 | 66473-3 | 66471-1 | 66473-1 | |

'Gold flash over .000050 [0.00127] nickel on entire contact, with .000030 [0.00076] gold to a distance of .200 [5.08] from mating end. Gold thickness controlled on socket O.D. Posts plated tin-lead over copper. Extraction Tool Part No. 305183. Insertion Tool Part No. 200893-2. Note: These contacts are used as replacement contacts for all posted connectors.



3 mm Hot Mate Pin and Socket

A 3 mm Hot Mate Pin and Socket are designed to fit into the 3- and 4-Position Modules. The contacts have a retention spring that locks the contact in the housing cavity. The contacts are rear installed and removed with the Extraction Tool that is inserted in the mating side. The contact can be crimped with a Daniels Hand Crimp Tool. Two contacts were installed into the 3-Position 3 mm AC Module and subjected to 52 amps at 250 VAC for 250 cycles. Contact UL rating — 35 A

Material

Body — Copper Alloy

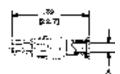
Retention Spring — Stainless Steel

Finish

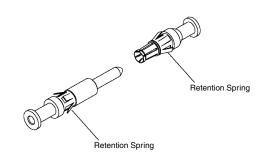
Body — Gold



Pin Part No. 1-194189-0



Socket Part No. 194245-1



| Part | | Contact | Contact Use with | | Tooling Part Numbers | | |
|------------|--------|-------------|------------------|----------------------|----------------------|--------------------------|--------------------|
| No. | Type | Sequence | AWG | | | Crimp Tool Positioner | Extraction Tool |
| 1-194189-0 | Pin | Second Mate | 12-14 | . 100 2.55 | M309 | TP1124 | 356335-1 |
| 194245-1 | Socket | _ | 12-14 | . 100 2.55 | M309 | TP1221 | 356335-1 |

Multimate Pin and Socket Contacts

The Multimate contacts are designed to fit into the 8-Position Module. Tyco Electronics offers many Type III+ contact wire sizes and finishes in order to fulfill most signal requirements. The Type III+ pin contacts are used in the third sequence mating cycle.

Type III+ Crimp Contacts

Contact Size — 16

Pin Diameter — .062 [1.57]

*Test Current — 13 amperes (Single contact, free-air test current; not to be construed as contact rating current. Use only for testing.)

Contact Finish:

A—.000015 [0.00038] gold on the electrical engagement area over .000050 [0.00127] nickel.

B — .000030 [0.00076] gold on the electrical engagement area over .000050 [0.00127] nickel.

C-Tin

*Note: Total current capacity of each contact in any given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.

Material

Body — Brass

Retention Spring — Stainless Steel

Finish

See Table



Pin

Insertion Tools —

91002-1 (For Insulation Dia. of .070 [1.78] or less) 200893-2 (For Insulation Dia. of .090 [2.29] max.)

Extraction Tool — Part No. 305183



| Wire S | Size Range | Ins. Dia. | Contact | Strip Form | Contact No. | Loose Piece | Contact No. | |
|--------|--|------------------------------|-------------|------------|-------------|-------------|-------------|---------|
| AWG | [mm²] | Range | Finish Code | Pin | Socket | Pin | Socket | |
| | | | С | 66425-6 | 66424-6 | _ | _ | |
| | | .040060 1.02-1.52 | Α | 66425-7 | 66424-7 | 66429-3 | 66428-3 | |
| 30-26 | 0.05-0.15 | 1.02 1.02 | В | 66425-8 | 66424-8 | 66429-4 | 66428-4 | |
| | | .014030 | Α | 66393-7 | 66394-7 | _ | _ | |
| | | 0.36-0.76 | В | 66393-8 | 66394-8 | 66406-4 | 66405-4 | |
| | 26-24 0.12-0.2 .035055 0.89-1.4 | | С | 66106-6 | 66108-6 | 66107-2 | 66109-2 | |
| 26-24 | | | Α | 66106-7 | 66108-7 | 66107-3 | 66109-3 | |
| | | 0.00 1.4 | В | 66106-8 | 66108-8 | 66107-4 | 66109-4 | |
| | | | С | 66102-7 | 66104-7 | 66103-2 | 66105-2 | |
| | | . 040080 1.02-2.03 | Α | 66102-8 | 66104-8 | 66103-3 | 66105-3 | |
| 24-20 | 0.2-0.6 | 0.2-0.6 | 1.02 2.00 | В | 66102-9 | 66104-9 | 66103-4 | 66105-4 |
| 2120 | 0.2 0.0 | | С | 66332-5 | 66331-5 | 66400-1 | 66399-1 | |
| | | .080100 2.03-2.54 | Α | 66332-7 | 66331-7 | 66400-3 | 66399-3 | |
| | | 2.00 2.01 | В | 66332-8 | 66331-8 | 66400-4 | 66399-4 | |
| | | | С | 66098-7 | 66100-7 | 66099-2 | 66101-2 | |
| 18-16 | 0.8-1.4 | .080100 2.03-2.54 | Α | 66098-8 | 66100-8 | 66099-3 | 66101-3 | |
| | | 2.00 2.04 | В | 66098-9 | 66100-9 | 66099-4 | 66101-4 | |
| | | | С | 66359-6 | 66358-6 | 66361-2 | 66360-2 | |
| 18-14 | 0.8-2 | .080100 2.03-2.54 | Α | 66359-9 | 66358-9 | 66361-3 | 66360-3 | |
| | | 2.00 2.04 | В | 1-66359-0 | 1-66358-0 | 66361-4 | 66360-4 | |



Multimate Pin and Socket Contacts (Continued)

High Current Size 16 Contacts

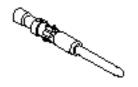
The High Current Size 16 contact is a Multimate contact that can be used if higher current levels are required (10-15 amps). They fit into the 8-Position Module. The Pin contact can be used in the third sequence mating cycle. AMP P/N 194046-1 is a Multimate contact that is used in the fourth sequence mating cycle and mates with any Size 16 socket.



| W O. | Contact Part Number | | | | | | |
|------------------|---------------------|----------|-------------|----------|--|--|--|
| Wire Size AWG | Pin | | Socket | | | | |
| | Loose Piece | Таре | Loose Piece | Tape | | | |
| 14 | 193844-1 | 193844-2 | 193846-1 | 193846-2 | | | |
| 18-16 | 796964-1 | 796964-2 | 796966-1 | 796966-2 | | | |

See page 12 for additional information.

Size 16 Pin



| Part | Contact | Use with | Tooling Pa | rt Numbers |
|----------|-------------|----------|--------------------|------------|
| No. | Sequence | AWG | Crimp Hand Tool | Turret |
| 194046-1 | Fourth Mate | 24-20 | 601967-1 | 1-601967-6 |

Size 16 Solder Tail Pin

AMP P/N 194264-1 is a Multimate contact that is used as a High Current Solder Tail Pin Contact and mates with Socket P/N 193846-1.



Extraction Tool Part No. 305183



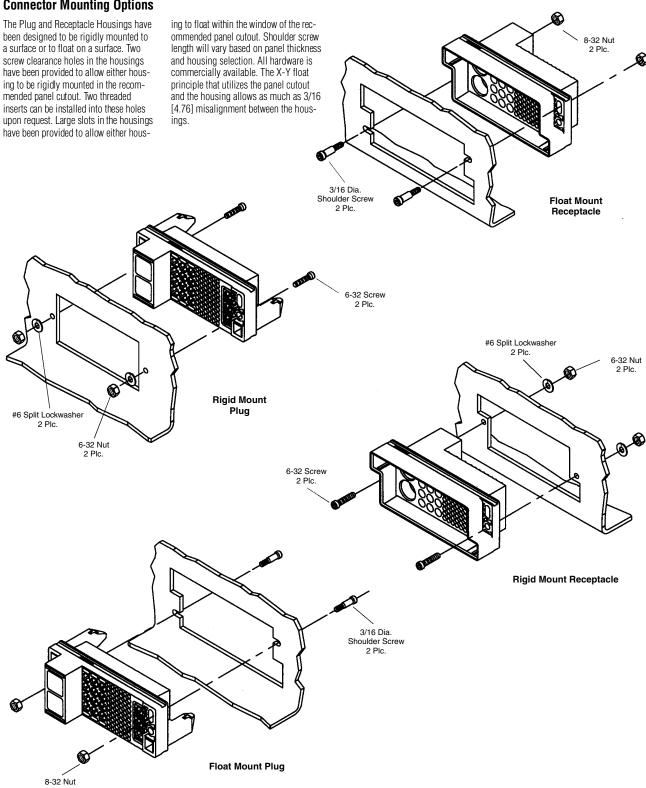
Part No. 194264-1

See page 12 for additional information.



Connector Mounting Options

been designed to be rigidly mounted to a surface or to float on a surface. Two screw clearance holes in the housings have been provided to allow either housing to be rigidly mounted in the recommended panel cutout. Two threaded inserts can be installed into these holes upon request. Large slots in the housings



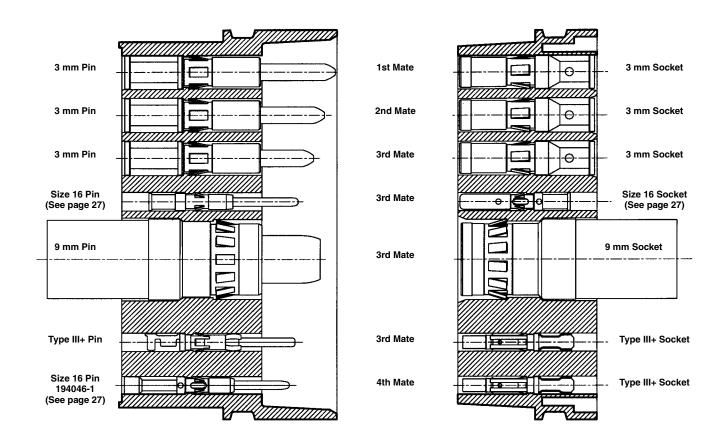
Panel cutout dimensions are shown on the customer drawing.

Dimensions are shown for reference



Contact Sequential Mating Cycle

A family of Pins have been designed to have four levels of sequence during the Plug and Receptacle mating cycle.





Fork Connectors

Thread Mount Fork

The Thread Mount Fork was developed to mount onto a plate or bus bar designed and fabricated by the customer. The Fork is rated at 84 amps (Upper Tolerance Limit) and accepts a .087 thick blade or circuit board. The anti-rotation pin is in place to help prevent the Fork from rotating while tightening the screw.

Material

Fork — Zinc Al Alloy

Louvertac Bands — Copper Alloy

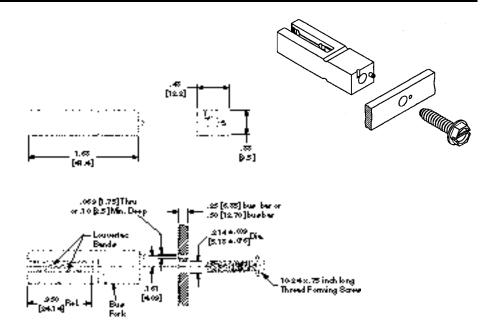
Screw — Steel

Finish

Fork — Silver

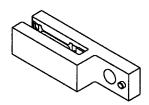
Louvertac Bands - Silver

Screw — Zinc



Part Number 194257-1

Right-Angle Thread Mount Fork



Material

Fork — Zinc Al Alloy

Louvertac Bands - Copper Alloy

Dimensions are shown for reference

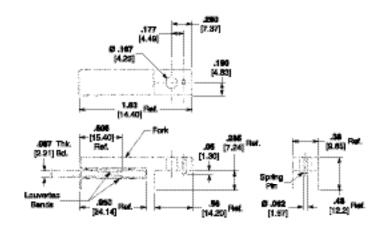
Spring Pin — Stainless Steel

Finish

Fork—Silver

purposes only.

Louvertac Bands - Silver



Part Number 194305-1



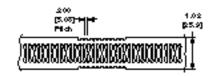
Louvertac Strip, Torsional Louver Type

The Torsional Louver Type Band was designed as an electrical interface that allows the transfer of high current and a more generous tolerance between mating surfaces. A strip can be sized with scissors in an on-site installation. They are available for use in flat and circular applications. A male band is used on the outside diameter of a pin. The female band is used on the inside diameter of a socket.

Material — Beryllium Copper Finish — See Tables

LA₀ .092 [2.27] Louver Height

Tooth Angle — 15° Minimum Diameter — 1.75 inches





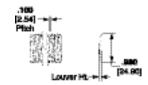
| Part No. | Application | Material Thickness | Suggested Current Limit per inch | Finish |
|----------|----------------|-----------------------|-------------------------------------|--------|
| 192000-2 | Flat or Female | . 006 .15 | 150 | Silver |
| 192000-9 | Flat or Female | . 010 .25 | 250 | Silver |
| 192001-4 | Flat or Male | .006 .15 | 150 | Silver |

LAOG

Louver Height — See Table

Tooth Angle — 45°

Minimum Diameter — 1.75 inches



| Part No. | Application | Material Thickness | Suggested Current Limit per inch | Louver Height | Finish |
|----------|----------------|-----------------------|-------------------------------------|----------------------|----------|
| 192002-1 | Flat or Female | .006 .15 | 300 | . 105 2.67 | Unplated |
| 192002-2 | Flat or Female | .006 .15 | 300 | . 105 2.67 | Silver |
| 192002-3 | Flat or Female | .010 .25 | 500 | .110 2.79 | Unplated |

LAIA .050 [1.27] Louver Height

Tooth Angle — See Table Minimum Diameter — 1½ inches





| Part No. | Application | Material Thickness | Suggested Current Limit per inch | Tooth Angle | Finish |
|------------|----------------|-----------------------|-------------------------------------|----------------|--------|
| 192004-4 | Flat or Female | . 004 .10 | 150 | 15° | Silver |
| 192004-6 | Flat or Female | .004 .10 | 150 | 45° | Silver |
| 192004-8 | Flat or Female | .006 .15 | 250 | 15° | Silver |
| 1-192004-1 | Flat or Female | . 006 .15 | 250 | 15° | Gold |
| 1-192004-4 | Flat or Female | . 006 .15 | 250 | 45° | Silver |
| 192007-7 | Flat or Male | . 006 .15 | 250 | 15° | Silver |
| 192008-1 | Flat or Male | .004 .10 | 150 | 45° | Silver |

Notes: 1. Product will be sold by the foot except where length is specified.

- 2. Suggested current limits are application dependent.
- 3. Additional sizes are available upon request.



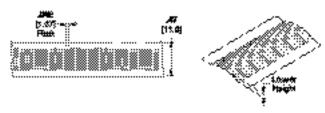
Louvertac Strip, Bridge Louver Type

The Bridge Louver Type Band was designed to transfer high currents in very small spaces. A strip can be sized with scissors in an on-site installation. They are available for use in flat and circular applications. A male band is used on the outside diameter of a pin. The female band is used on the inside diameter of a socket.

Material - Beryllium Copper



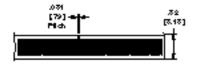
Minimum Diameter—1 inch Suggested Current Limit Per Inch — 150 Amps Material Thickness — .006 [.15]



| Part No. | Application | Finish |
|----------|-------------|--------|
| 192038-6 | Female | Silver |
| 192039-5 | Male | Silver |

LAIV .026 [.66] Louver Height

Minimum Diameter — 3/4 inch Suggested Current Limit Per Inch — 150 Amps Material Thickness — See Table

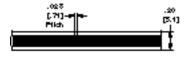




| Part No. | Application | Finish | Material Thickness |
|------------|-------------|--------|-----------------------|
| 1-192041-2 | Female | Silver | .006 .15 |
| 192042-5 | Male | Silver | .006 .15 |
| 192048-2 | Male | Gold | .004 .10 |

LAV .022 [.56] Louver Height

Minimum Diameter — 3/4 inch Suggested Current Limit Per Inch — 120 Amps Material Thickness — See Table





| Part No. | Application | Finish | Material Thickness |
|------------|-------------|--------|-----------------------|
| 1-192044-9 | Female | Silver | . 005 .13 |
| 192045-5 | Male | Silver | . 005 .13 |
| 192045-2 | Male | Gold | .004 .10 |
| 1-192045-2 | Male | Gold | .004 .10 |

Notes: 1. Product will be sold by the foot except where length is specified.

- Suggested current limits are application dependent.
 Additional sizes are available upon request.

Dimensions are shown for reference



Preformed Female Louvertac Bands

Female Torsional Formed Type LA1A/LA1B .050 [1.27] Louver Height

Material - Beryllium Copper

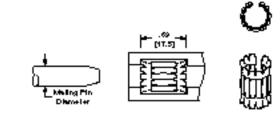
Finish — See Table

Tooth Angle—See Table

Louvertac Bands can be manufactured as preformed diameters. This will allow the insertion of the band into a socket.

The diameter indicated is the mating pin diameter that will be inserted into the socket assembly.

Consult Product Engineering for mounting details.



| Part No. | Mating Pin Dia. | Material Thickness | Suggested Current Limit (A) | Finish | Tooth Angle | Band Type |
|------------|----------------------|-----------------------|--------------------------------|--------|----------------|--------------|
| 4-192013-3 | .312 [7.92] | .004 [.10] | 150 | Silver | 15° | LA1A |
| 4-192013-5 | .312 [7.92] | .006 [.15] | 250 | Silver | 15° | LA1A |
| 5-192013-1 | .355 [9.01] | .006 [.15] | 275 | Gold | 15° | LA1A |
| 5-192013-4 | .375 [9.53] | .006 [.15] | 300 | Silver | 15° | LA1A |
| 5-192013-5 | .394 [10.00] | .006 [.15] | 325 | Silver | 15° | LA1A |
| 5-192013-8 | .434 [11.02] | .006 [.15] | 350 | Gold | 15° | LA1A |
| 5-192013-9 | .437 [11.10] | .006 [.15] | 350 | Silver | 15° | LA1A |
| 6-192013-7 | .472 [11.99] | .006 [.15] | 375 | Silver | 15° | LA1A |
| 6-192013-9 | .472 [11.99] | .008 [.20] | 375 | Silver | 15° | LA1A |
| 7-192013-1 | .500 [12.70] | .006 [.15] | 400 | Silver | 15° | LA1A |
| 7-192013-6 | .551 [14.00] | .006 [.15] | 450 | Silver | 15° | LA1A |
| 8-192013-2 | .625 [15.88] | .006 [.15] | 500 | Silver | 15° | LA1A |
| 8-192013-6 | .625 [15.88] | .008 [.20] | 475 | Silver | 15° | LA1A |
| 8-192013-9 | .685 [17.40] | .006 [.15] | 550 | Silver | 15° | LA1A |
| 9-192013-6 | .750 [19.05] | .006 [.15] | 600 | Silver | 15° | LA1A |
| 192033-3 | .750 [19.05] | .008 [.20] | 600 | Silver | 15° | LA1A |
| 1-192033-9 | .875 [22.22] | .006 [.15] | 675 | Gold | 15° | LA1A |
| 2-192033-0 | .875 [22.22] | .006 [.15] | 700 | Silver | 15° | LA1A |
| 2-192033-6 | 1.000 [25.40] | .006 [.15] | 775 | Silver | 15° | LA1A |
| 3-192033-4 | 1.250 [31.75] | .006 [.15] | 975 | Silver | 15° | LA1A |
| 5-192033-2 | 1.000 [25.40] | .008 [.20] | 800 | Silver | 15° | LA1A |
| 3-192013-8 | 1.187 [30.10] | .006 [.15] | 950 | Silver | 45° | LA1B |
| 5-192033-0 | .812 [20.62] | .008 [.20] | 625 | Silver | 45° | LA1B |

Notes: 1. Suggested current limits are application dependent.

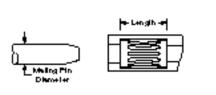
2. Additional sizes are available upon request.



Preformed Female Louvertac Bands (Continued)

Female Bridge Formed Type LAIII through LAVI

Material — Beryllium Copper Finish — See Table



| Part No. | Mating Pin Dia. | Length | Material Thickness | Suggested Current Limit (A) | Finish | Band Type |
|------------|---------------------|-------------------|-----------------------|--------------------------------|----------|--------------|
| 1-192038-9 | .125 [3.18] | .47 [11.9] | .004 [.10] | 40 | Nickel | LAIII |
| 2-192038-8 | .197 [5.00] | .47 [11.9] | .006 [.15] | 90 | Gold | LAIII |
| 3-192038-7 | .236 [6.00] | .47 [11.9] | .006 [.15] | 100 | Gold | LAIII |
| 4-192038-0 | .236 [6.00] | .47 [11.9] | .008 [.20] | 120 | Gold | LAIII |
| 4-192038-1 | .236 [6.00] | .47 [11.9] | .008 [.20] | 120 | Gold | LAIII |
| 4-192038-8 | .250 [6.35] | .47 [11.9] | .006 [.15] | 110 | Silver | LAIII |
| 4-192038-9 | .250 [6.35] | .47 [11.9] | .006 [.15] | 110 | Gold | LAIII |
| 5-192038-4 | .250 [6.35] | .47 [11.9] | .008 [.20] | 125 | Gold | LAIII |
| 6-192038-0 | .280 [7.11] | .47 [11.9] | .008 [.20] | 165 | Silver | LAIII |
| 6-192038-1 | .280 [7.11] | .47 [11.9] | .008 [.20] | 125 | Gold | LAIII |
| 6-192038-2 | .250 [6.35] | .47 [11.9] | .006 [.15] | 125 | Unplated | LAIII |
| 6-192038-5 | .315 [8.00] | .47 [11.9] | .008 [.20] | 185 | Silver | LAIII |
| 6-192038-6 | .315 [8.00] | .47 [11.9] | .008 [.20] | 185 | Gold | LAIII |
| 7-192038-7 | .394 [10.00] | .47 [11.9] | .008 [.20] | 250 | Silver | LAIII |
| 8-192038-1 | .437 [11.10] | .47 [11.9] | .008 [.20] | 270 | Silver | LAIII |
| 8-192038-6 | .472 [11.99] | .47 [11.9] | .008 [.20] | 300 | Silver | LAIII |
| 9-192038-4 | .500 [12.70] | .47 [11.9] | .008 [.20] | 300 | Tin | LAIII |
| 192040-8 | .375 [9.53] | .47 [11.9] | .008 [.20] | 200 | Gold | LAIII |
| 2-192040-7 | .250 [6.35] | .47 [11.9] | .006 [.15] | 110 | Gold | LAIII |
| 2-192041-9 | .025 [0.64] | .32 [8.13] | .005 [.13] | 15 | Gold | LAIV |
| 4-192041-0 | .062 [1.57] | .32 [8.13] | .006 [.15] | 25 | Silver | LAIV |
| 4-192041-1 | .062 [1.57] | .32 [8.13] | .006 [.15] | 25 | Gold | LAIV |
| 4-192041-4 | .080 [2.03] | .32 [8.13] | .006 [.15] | 35 | Gold | LAIV |
| 5-192041-0 | .093 [2.36] | .32 [8.13] | .005 [.13] | 40 | Gold | LAIV |
| 5-192041-9 | .100 [2.54] | .32 [8.13] | .006 [.15] | 50 | Gold | LAIV |
| 6-192041-9 | .125 [3.18] | .32 [8.13] | .006 [.15] | 60 | Gold | LAIV |
| 7-192041-4 | .157 [4.00] | .32 [8.13] | .006 [.15] | 65 | Gold | LAIV |
| 7-192041-7 | .157 [4.00] | .32 [8.13] | .006 [.15] | 65 | Silver | LAIV |
| 7-192041-8 | .157 [4.00] | .32 [8.13] | .006 [.15] | 65 | Gold | LAIV |
| 8-192041-4 | .157 [4.00] | .32 [8.13] | .008 [.20] | 75 | Gold | LAIV |
| 8-192041-9 | .173 [4.39] | .32 [8.13] | .006 [.15] | 70 | Gold | LAIV |
| 192043-6 | .218 [5.54] | .32 [8.13] | .006 [.15] | 95 | Silver | LAIV |
| 1-192043-5 | .254 [6.45] | .32 [8.13] | .006 [.15] | 110 | Silver | LAIV |
| 1-192043-6 | .250 [6.35] | .32 [8.13] | .006 [.15] | 120 | Gold | LAIV |
| 2-192043-0 | .280 [7.11] | .32 [8.13] | .006 [.15] | 130 | Gold | LAIV |
| 2-192043-7 | .315 [8.00] | .32 [8.13] | .006 [.15] | 165 | Silver | LAIV |
| 4-192043-5 | .375 [9.53] | .32 [8.13] | .006 [.15] | 175 | Gold | LAIV |
| 5-192043-0 | .375 [9.50] | .32 [8.13] | .007 [.18] | 175 | Tin | LAIV |
| 6-192043-7 | .602 [15.30] | .32 [8.13] | .006 [.15] | 285 | Gold | LAIV |
| 7-192043-2 | .125 [3.18] | .32 [8.13] | .006 [.15] | 60 | Silver | LAIV |
| 9-192043-3 | .157 [4.00] | .32 [8.13] | .006 [.15] | 65 | Silver | LAIV |
| 9-192043-6 | .725 [18.40] | .32 [8.13] | .006 [.15] | 350 | Silver | LAIV |
| 4-192044-1 | .030 [0.76] | .20 [5.10] | .005 [.13] | 13 | Gold | LAV |
| 4-192044-2 | .030 [0.76] | .20 [5.10] | .005 [.13] | 11 | Unplated | LAV |
| 4-192044-4 | .055 [1.40] | .20 [5.10] | .005 [.13] | 20 | Gold | LAV |
| 4-192044-7 | .060 [1.54] | .20 [5.10] | .004 [.10] | 22 | Gold | LAV |
| 5-192044-6 | .062 [1.57] | .20 [5.10] | .005 [.13] | 25 | Gold | LAV |
| 5-192044-8 | .065 [1.65] | .20 [5.10] | .005 [.13] | 23 | Unplated | LAV |
| 6-192044-0 | .080 [2.03] | .20 [5.10] | .004 [.10] | 30 | Silver | LAV |
| 6-192044-4 | .080 [2.03] | .20 [5.10] | .005 [.13] | 30 | Gold | LAV |
| | | | | | | |

Notes: 1. Suggested current limits are application dependent.
2. Additional sizes are available upon request.

Dimensions are shown for reference



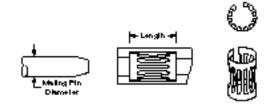
Preformed Female Louvertac Bands (Continued)

Female Bridge Formed Type LAIII through LAVI

(Continued)

Material — Beryllium Copper

Finish — See Table



| Part No. | Mating Pin Dia. | Length | Material Thickness | Suggested Current Limit (A) | Finish | Band Type |
|------------|--------------------|-------------------|-----------------------|--------------------------------|----------|--------------|
| 6-192044-6 | .080 [2.03] | .20 [5.10] | .008 [.20] | 30 | Gold | LAV |
| 7-192044-1 | .093 [2.36] | .20 [5.10] | .005 [.13] | 35 | Gold | LAV |
| 8-192044-1 | .125 [3.18] | .20 [5.10] | .004 [.10] | 45 | Gold | LAV |
| 8-192044-3 | .125 [3.18] | .20 [5.10] | .005 [.13] | 45 | Silver | LAV |
| 8-192044-4 | .125 [3.18] | .20 [5.10] | .005 [.13] | 45 | Gold | LAV |
| 8-192044-7 | .125 [3.18] | .20 [5.10] | .005 [.13] | 45 | Unplated | LAV |
| 192046-6 | .172 [4.40] | .20 [5.10] | .006 [.15] | 65 | Gold | LAV |
| 1-192046-6 | .225 [5.70] | .20 [5.10] | .006 [.15] | 85 | Gold | LAV |
| 1-192046-9 | .250 [6.35] | .20 [5.10] | .006 [.15] | 110 | Gold | LAV |
| 2-192046-0 | .250 [6.30] | .20 [5.10] | .006 [.15] | 95 | Tin | LAV |
| 3-192046-0 | .400 [10.2] | .20 [5.10] | .005 [.13] | 150 | Gold | LAV |
| 5-192046-0 | .750 [19.0] | .20 [5.10] | .005 [.13] | 285 | Gold | LAV |
| 5-192046-9 | .134 [3.40] | .20 [5.10] | .006 [.15] | 50 | Gold | LAV |
| 1-192047-4 | .040 [1.00] | .10 [2.54] | .004 [.10] | 15 | Gold | LAVI |
| 1-192047-9 | .062 [1.60] | .10 [2.54] | .004 [.10] | 22 | Gold | LAVI |
| 3-192047-7 | .125 [3.20] | .10 [2.54] | .004 [.10] | 45 | Gold | LAVI |
| 5-192047-1 | .256 [6.50] | .10 [2.54] | .004 [.10] | 95 | Gold | LAVI |
| 5-192047-3 | .272 [6.90] | .10 [2.54] | .004 [.10] | 65 | Gold | LAVI |
| 7-192047-5 | .256 [6.50] | .10 [2.54] | .004 [.10] | 95 | Unplated | LAVI |

Preformed Male Louvertac Bands

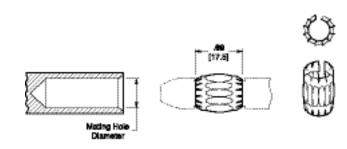
Male Torsional Formed Type LA1AS/LA1BS

Material—Beryllium Copper **Finish** — See Table

Tooth Angle — See Table

Louvertac Bands can be formed into a "male" shape for use on a pin. Selection begins with the amperage requirement and then the mating hole diameter.

Consult Product Engineering for mounting details.



| Part No. | Mating Hole Dia. | Material Thickness | Suggested Current Limit (A) | Finish | Tooth Angle | Band Type |
|------------|---------------------|-----------------------|--------------------------------|--------|----------------|--------------|
| 192007-9 | .312 [7.92] | .006 [.15] | 200 | Silver | 15° | LA1AS |
| 1-192007-9 | .620 [15.7] | .006 [.15] | 425 | Silver | 15° | LA1AS |
| 2-192007-5 | .750 [19.0] | .008 [.20] | 550 | Silver | 15° | LA1AS |
| 3-192007-1 | 1.000 [25.4] | .006 [.15] | 750 | Silver | 15° | LA1AS |
| 192008-6 | .500 [12.7] | .006 [.15] | 350 | Silver | 45° | LA1BS |
| 1-192008-3 | .750 [19.0] | .008 [.20] | 550 | Silver | 45° | LA1BS |
| 1-192008-5 | .781 [19.8] | .006 [.15] | 575 | Silver | 45° | LA1BS |
| 2-192008-1 | .875 [22.22] | .008 [.20] | 650 | Silver | 45° | LA1BS |
| 3-192008-4 | 1.197 [30.4] | .008 [.20] | 900 | Silver | 45° | LA1BS |
| 4-192008-2 | 1.450 [36.8] | .006 [.15] | 1100 | Silver | 45° | LA1BS |

Notes: 1. Suggested current limits are application dependent.

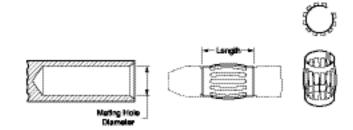
2. Additional sizes are available upon request.



Preformed Male Louvertac Bands (Continued)

Male **Bridge Formed Type LAIIIS through LAVIS**

Material — Beryllium Copper Finish — See Table



| Part No. | Mating Hole Dia. | Length | Material Thickness | Suggested Current Limit (A) | Finish | Band Type |
|------------|---------------------|--------------------|-----------------------|--------------------------------|----------|--------------|
| 1-192039-7 | .157 [4.0] | .470 [11.9] | .008 [.20] | 75 | Gold | LAIIIS |
| 2-192039-1 | .250 [6.35] | .470 [11.9] | .008 [.20] | 130 | Silver | LAIIIS |
| 2-192039-3 | .248 [6.3] | .470 [11.9] | .008 [.20] | 130 | Silver | LAIIIS |
| 2-192039-7 | .311 [7.9] | .470 [11.9] | .008 [.20] | 175 | Unplated | LAIIIS |
| 2-192039-9 | .311 [7.9] | .470 [11.9] | .008 [.20] | 175 | Silver | LAIIIS |
| 3-192039-0 | .311 [7.9] | .470 [11.9] | .008 [.20] | 175 | Gold | LAIIIS |
| 5-192039-3 | .236 [6.0] | .470 [11.9] | .008 [.20] | 120 | Nickel | LAIIIS |
| 5-192039-4 | .157 [4.0] | .470 [11.9] | .008 [.20] | 75 | Nickel | LAIIIS |
| 1-192042-5 | .080 [2.0] | .320 [8.13] | .005 [.12] | 30 | Nickel | LAIVS |
| 2-192042-5 | .157 [4.0] | .320 [8.13] | .006 [.15] | 65 | Unplated | LAIVS |
| 2-192042-8 | .157 [3.99] | .320 [8.13] | .006 [.15] | 60 | Gold | LAIVS |
| 4-192042-8 | .500 [1.27] | .320 [8.13] | .005 [.12] | 235 | Unplated | LAIVS |
| 6-192042-6 | .368 [9.38] | .320 [8.13] | .004 [.10] | 170 | Unplated | LAIVS |
| 6-192042-7 | .375 [9.53] | .320 [8.13] | .006 [.15] | 175 | Tin | LAIVS |
| 6-192042-8 | .375 [9.53] | .320 [8.13] | .006 [.15] | 175 | Gold | LAIVS |
| 2-192045-3 | .250 [6.35] | .200 [5.10] | .006 [.15] | 95 | Gold | LAIVS |
| 192048-6 | .051 [1.3] | .100 [2.54] | .004 [.10] | 17 | Gold | LAVIS |
| 1-192048-1 | .127 [3.23] | .100 [2.54] | .004 [.10] | 22 | Gold | LAVIS |
| 2-192048-4 | .156 [3.96] | .100 [2.54] | .004 [.10] | 65 | Gold | LAVIS |

Notes: 1. Suggested current limits are application dependent.
2. Additional sizes are available upon request.



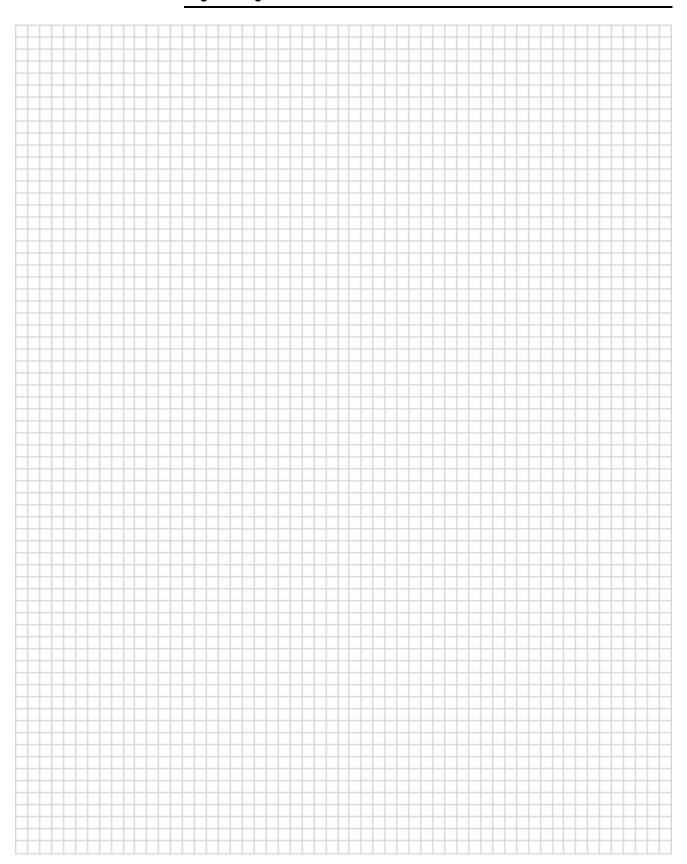
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