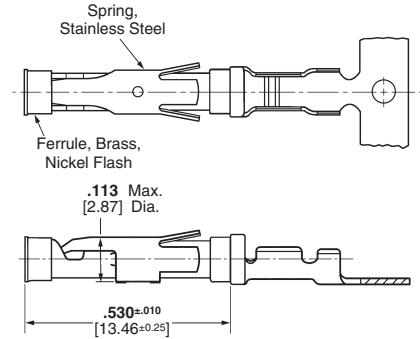
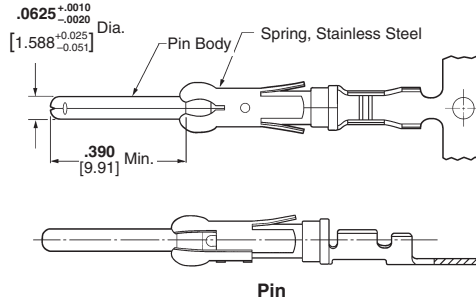
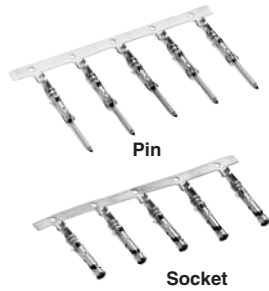


## Signal Contacts

### Type III+, Crimp, Snap-In



**Material and Finish** — See chart.

**Contact Body**—Brass or phosphor bronze

**Retention Spring**—Stainless steel

**Application Tooling**—Page 29

**Technical Documents**

114-10004 Application Specification

108-10042 Product Specification

### Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)\*

\*Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 8.

| Wire Size Range                     |                               | Ins. Dia. Range                     | Contact Finish                      | Strip Form Contact No.   |                        | Loose Piece Contact No.                                        |                                  | Tooling Part No.**                                             |                                                    |                                  |
|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------------|--------------------------|------------------------|----------------------------------------------------------------|----------------------------------|----------------------------------------------------------------|----------------------------------------------------|----------------------------------|
| AWG                                 | mm <sup>2</sup>               |                                     |                                     | Pin                      | Socket                 | Pin                                                            | Socket                           | Loose Piece Hand Tool                                          | Strip Form Applicators                             |                                  |
| 30-28                               | 0.05-0.09                     | .015-.030<br>0.38-0.76              | Gold/Nickel <sup>2</sup>            | 788085-3                 | 788088-2               | —                                                              | —                                | 90716-1                                                        | 567867-1***<br>or 567947-1***<br>or 680602-□***    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 788085-1                 | 788088-1               | 788085-4                                                       | 788088-3                         |                                                                |                                                    |                                  |
| 30-26                               | 0.05-0.15                     | .040-.060 <sup>1</sup><br>1.02-1.52 | Bright Tin                          | 1-66425-2                | 1-66424-1              | —                                                              | —                                | 91515-1 <sup>6</sup>                                           | 466598-□***                                        |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 66425-7                  | 66424-7                | 66429-3                                                        | 66428-3                          |                                                                |                                                    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 66425-8                  | 66424-8                | 66429-4                                                        | 66428-4                          | 90225-2 <sup>6</sup>                                           | 466585-3***                                        |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 66393-7                  | 66394-7                | —                                                              | —                                |                                                                |                                                    |                                  |
| 26-24                               | 0.12-0.2                      | .035-.055 <sup>1</sup><br>0.89-1.40 | Sel. Gold/Nickel <sup>3</sup>       | 66393-8                  | 66394-8                | 66406-4                                                        | 66405-4                          | 91515-1 <sup>6</sup><br>or<br>58495-1*                         | 466321-□***<br>or<br>466908-2***                   |                                  |
|                                     |                               |                                     | Bright Tin                          | 1-66106-5                | 1-66108-5              | 1-66107-1                                                      | 1-66109-7                        |                                                                |                                                    |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 66106-7                  | 66108-7                | 66107-3                                                        | 66109-3                          | 91515-1 <sup>6</sup><br>or<br>58495-1*                         | 466323-□***<br>or<br>466907-2***                   |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 66106-8                  | 66108-8                | 66107-4                                                        | 66109-4                          |                                                                |                                                    |                                  |
| 24-20                               | 0.2-0.6                       | .040-.080 <sup>1</sup><br>1.02-2.03 | Sel. Gold/Nickel <sup>4</sup>       | —                        | 66108-1                | —                                                              | 66109-1                          | 91515-1 <sup>6</sup><br>or<br>58495-1*                         | 466323-□***<br>or<br>466907-2***                   |                                  |
|                                     |                               |                                     | Bright Tin                          | 2-66102-5                | 3-66104-0              | 1-66103-8                                                      | 1-66105-9                        |                                                                |                                                    |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 66102-8                  | 66104-8                | 66103-3                                                        | 66105-3                          | 91515-1 <sup>6</sup><br>or<br>58495-1*                         | 466323-□***<br>or<br>466907-2***                   |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 66102-9                  | 66104-9                | 66103-4                                                        | 66105-4                          |                                                                |                                                    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>4</sup>       | 2-66102-2 <sup>7</sup>   | 2-66104-3 <sup>7</sup> | —                                                              | —                                |                                                                |                                                    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>4</sup>       | —                        | 66104-1                | —                                                              | 66105-1                          | 91542-1 <sup>6</sup>                                           | 466383-4***<br>or 466979-1***<br>or 567363-□***    |                                  |
|                                     |                               |                                     | Bright Tin                          | 1-66564-2                | 1-66563-1              | 66566-7                                                        | 66565-7                          |                                                                |                                                    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 66564-8                  | 66563-8                | 66566-4                                                        | 66565-4                          |                                                                |                                                    |                                  |
|                                     |                               |                                     | .080-.100 <sup>1</sup><br>2.03-2.54 | Bright Tin               | 1-66332-4              | 1-66331-4                                                      | 1-66400-0                        | 1-66399-0                                                      | 91523-1 <sup>6</sup><br>or<br>90225-2 <sup>6</sup> | 466324-□***<br>or<br>466942-1*** |
|                                     |                               |                                     |                                     | Gold/Nickel <sup>2</sup> | 66332-7                | 66331-7                                                        | 66400-3                          | 66399-3                                                        |                                                    |                                  |
| Sel. Gold/Nickel <sup>3</sup>       | 66332-8                       | 66331-8                             |                                     | 66400-4                  | 66399-4                | 91505-1 <sup>6</sup> or<br>91523-1 <sup>6</sup> or<br>58495-1* | 466325-□***<br>or<br>466906-1*** |                                                                |                                                    |                                  |
| Sel. Gold/Nickel <sup>4</sup>       | —                             | 66331-2                             |                                     | —                        | 66399-2                |                                                                |                                  |                                                                |                                                    |                                  |
| 18-16                               | 0.8-1.4                       | .080-.100 <sup>1</sup><br>2.03-2.54 | Bright Tin                          | 1-66098-9 <sup>5</sup>   | 1-66100-9              | 1-66099-5                                                      | 1-66101-9                        | 91505-1 <sup>6</sup> or<br>91523-1 <sup>6</sup> or<br>58495-1* | 466325-□***<br>or<br>466906-1***                   |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 1-66098-8                | 66098-8                | 66100-8                                                        | 66099-3                          |                                                                |                                                    | 66101-3                          |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 66098-9                  | 66100-9                | 66099-4                                                        | 66101-4                          | 91519-1 <sup>6</sup>                                           | 466326-□***<br>or<br>466923-2***                   |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>4</sup>       | 66098-6                  | —                      | 66099-1                                                        | —                                |                                                                |                                                    |                                  |
| 18-14                               | 0.8-2.0                       | .080-.100 <sup>1</sup><br>2.03-2.54 | Bright Tin                          | 1-66359-4                | 1-66358-6              | 1-66361-2                                                      | 1-66360-2                        | 91519-1 <sup>6</sup>                                           | 466326-□***<br>or<br>466923-2***                   |                                  |
|                                     |                               |                                     | Phos Bronze                         | 1-66359-5                | 1-66358-8              | 1-66359-5                                                      | 1-66358-8                        |                                                                |                                                    |                                  |
|                                     |                               |                                     | Gold/Nickel <sup>2</sup>            | 66359-9                  | 66358-9                | 66361-3                                                        | 66360-3                          | 91521-1 <sup>6</sup>                                           | 466958-1***<br>or<br>567364-□***                   |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 1-66359-0                | 1-66358-0              | 66361-4                                                        | 66360-4                          |                                                                |                                                    |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>3</sup>       | 1-66359-2                | 1-66358-3              | 66361-8                                                        | 66360-8                          | 91521-1 <sup>6</sup>                                           | 466958-1***<br>or<br>567364-□***                   |                                  |
|                                     |                               |                                     | Sel. Gold/Nickel <sup>4</sup>       | —                        | 66358-1                | —                                                              | 66360-1                          |                                                                |                                                    |                                  |
| .110-.150 <sup>5</sup><br>2.79-3.81 | Bright Tin                    | 66597-8                             | 66598-9                             | 66602-8                  | 66601-9                | 91521-1 <sup>6</sup>                                           | 466958-1***<br>or<br>567364-□*** |                                                                |                                                    |                                  |
|                                     | Sel. Gold/Nickel <sup>3</sup> | 66597-2                             | 66598-2                             | 66602-2                  | 66601-2                |                                                                |                                  |                                                                |                                                    |                                  |

<sup>1</sup>Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

<sup>2</sup>.000015 [0.00038] gold in the mating area over .000050 [0.00127] min. nickel.

<sup>3</sup>.000030 [0.00076] gold in the mating area, with gold flash on remainder, over .000050 [0.00127] min. nickel.

<sup>4</sup>.000030 [0.00076] gold in the mating area, with gold gradient on remainder, over .000050 [0.00127] min. nickel.

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

<sup>5</sup>Contacts can ONLY be used in: Metrimate; CPC Series 1 (Arr. 23-24), Series 4 (Arr. 23-13M, 23-16M, 23-22M), and VDE connectors.

<sup>6</sup>To use with the 626 Pneumatic Tool: remove crimping head from Straight Action Hand Tool (SAHT), order SAHT Adapter Part No. 217201-1, Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without), and Power Unit Part No. 189721-1 (hand actuated) or 189722-1 (foot actuated).

<sup>7</sup>Phosphor Bronze

<sup>8</sup>Standard reeling of strip form contacts.

\*Commercial PRO-CRIMPER II hand tool for field repair only. **Note:** Die Set can be adapted for use with 626 Pneumatic Tool System. **Insertion Tool Part No. 91002-1** (for insulation diameters .070 [1.78] or less), **No. 200893-2** (for insulation diameters .090 [2.29] max.). **Extraction Tool Part No. 305183**, (Instruction Sheet 408-1216).

\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

\*\*\*Call Technical Support for Machine Applicator Part Numbers.

## Signal Contacts (Continued)

### Type III+, Crimp, Snap-In

**Contact Size**—16

**Pin Diameter**—.062 [1.57]

#### Material and Finish

**Contact Body**—Copper alloy, plated tin or gold

**Spring**—Stainless steel

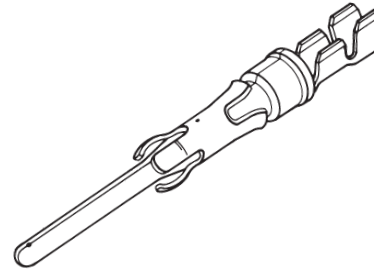
#### Grounding Pin

(make first - break last)

#### Related Product Data

**Application Tooling**—Pages 29, 30

**Technical Documents**—Page 4



| Wire Size Range    |       | Ins. Dia. Range <sup>1</sup> | Contact Finish                | Grounding Pin Part No. |             | Strip Form Applicator Part No. | Loose Piece Hand Tool** Part No.                         |
|--------------------|-------|------------------------------|-------------------------------|------------------------|-------------|--------------------------------|----------------------------------------------------------|
| [mm <sup>2</sup> ] | AWG   |                              |                               | Strip Form             | Loose Piece |                                |                                                          |
| 0.12-0.2           | 26-24 | .035-.055<br>0.89-1.4        | Tin                           | 164159-3               | 164162-1    | —                              | 91515-1 <sup>3</sup> or 58495-1*                         |
|                    |       |                              | Sel. Gold/Nickel <sup>2</sup> | 164159-4               | 164162-2    |                                |                                                          |
| 0.2-0.6            | 24-20 | .045-.070<br>1.14-1.78       | Tin                           | 164160-3               | 164163-1    | 466323-□***                    | 91515-1 <sup>3</sup> or 91505-1 <sup>3</sup> or 58495-1* |
|                    |       |                              | Sel. Gold/Nickel <sup>2</sup> | 164160-4               | 164163-2    | 466907-2***                    |                                                          |
| 0.8-1.4            | 18-16 | .078-.098<br>1.98-2.49       | Tin                           | 164161-3               | 164164-1    | 466741-□***                    | 91523-1 <sup>3</sup> or 91505-1 <sup>3</sup> or 58495-1* |
|                    |       |                              | Sel. Gold/Nickel <sup>2</sup> | 164161-4               | 164164-2    | 680114-3***                    |                                                          |

<sup>1</sup>Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

<sup>2</sup>Gold flash over .000030 [0.00076] min. nickel on entire contact, with .000030 [0.00076] gold in contact area.

<sup>3</sup>To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter **Part No. (Call Technical Support at 800-522-6752)**, Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).

\*Commercial PRO-CRIMPER II hand tool for field repair only. **Note:** Die Set can be adapted for use with the 626 Pneumatic Tool System.

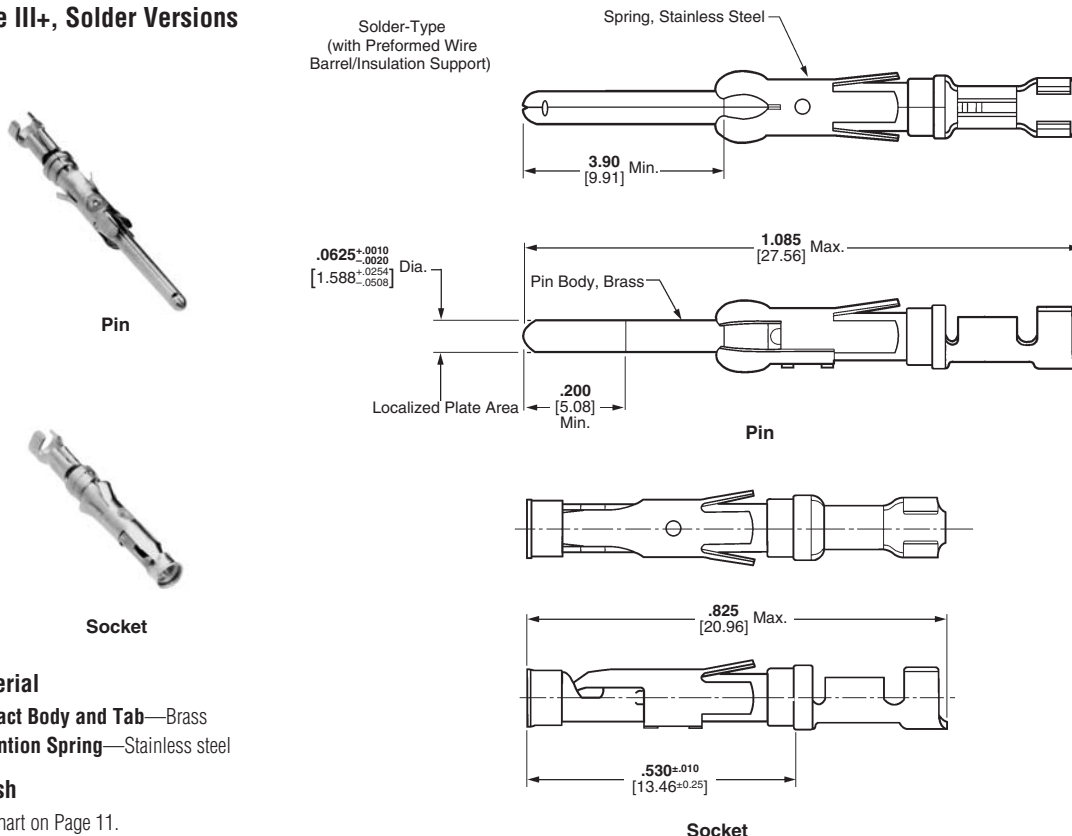
\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

\*\*\*Call Technical Support at 1-800-522-6752 for Automatic Machine Applicator Part Numbers.

**Extraction Tool Part No. 725840-1**

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

### Type III+, Solder Versions



#### Material

**Contact Body and Tab**—Brass

**Retention Spring**—Stainless steel

#### Finish

See chart on Page 11.

## Signal Contacts (Continued)

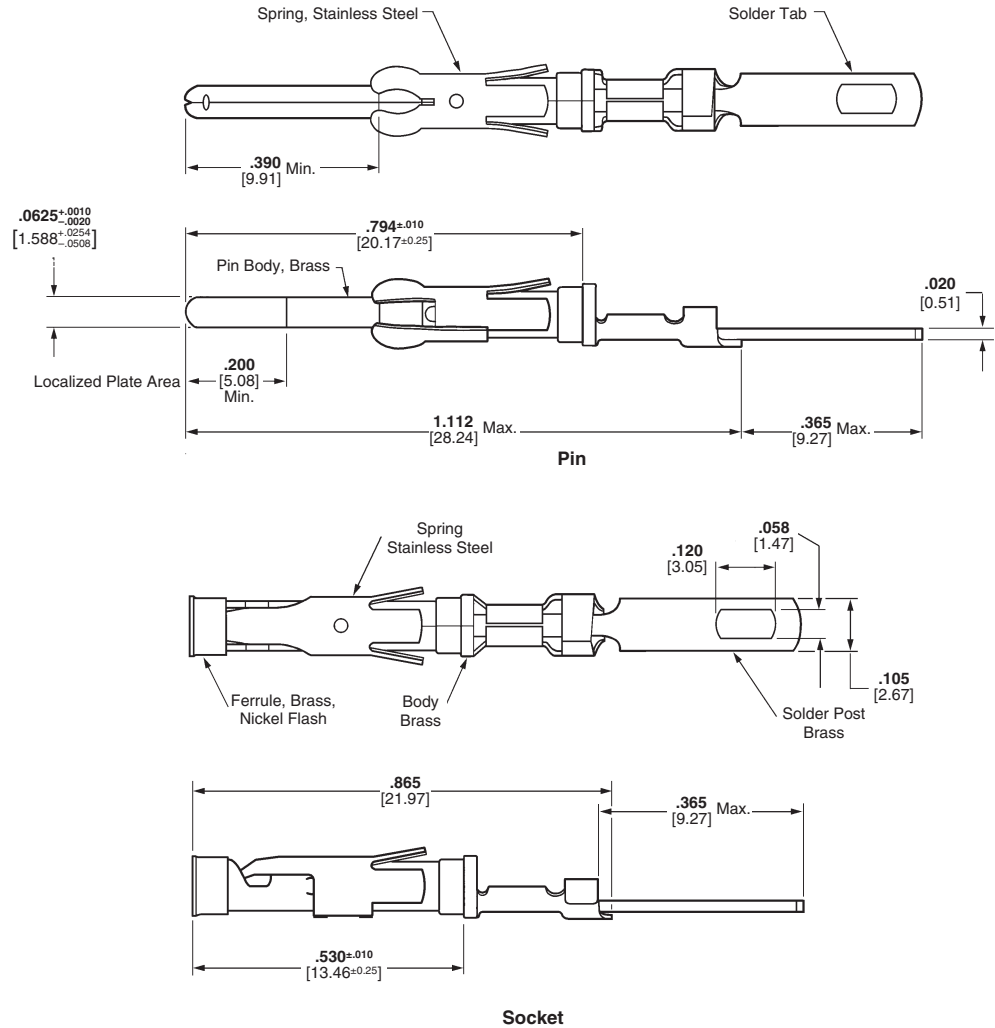
### Type III+, Solder Versions (Continued)



Pin



Socket



### Material

**Contact Body and Tab**—Brass

**Retention Spring**—Stainless steel

### Finish

See chart.

### Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

| Wire Size Range |                    | Contact Finish           | Loose Piece Contact No. |           |
|-----------------|--------------------|--------------------------|-------------------------|-----------|
| AWG             | [mm <sup>2</sup> ] |                          | Pin                     | Socket    |
| 26-20           | 0.12-0.6           | Gold/Nickel <sup>1</sup> | 66182-1♦                | 66183-1♦  |
| 18-16           | 0.8-1.4            | Gold/Nickel <sup>1</sup> | 66180-1♦                | 66181-1♦  |
| Solder Tab      |                    | Duplex <sup>2</sup>      | 202236-7♦               | 202237-7♦ |
|                 |                    | Bright Tin               | 202236-5♦               | 202237-5♦ |

<sup>1</sup>.000030 [0.00076] gold in mating area over .000050 [0.00127] nickel.

<sup>2</sup>Duplex plated .000030 [0.00076] gold in mating area over .000050 [0.00127] nickel on contact body; bright tin-lead on solder tab.

<sup>3</sup>Bright tin on entire contact.

**Note:** These contacts can be used in Multimate contact cavities of all connector housings.

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

Refer to contact current carrying capability information on page 3.

Extraction Tool **Part No. 305183** (Instruction Sheet 408-1216)

**Note:** All part numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## Signal Contacts (Continued)

### Type III+, Posted

(Replacement Contacts,  
See Note Below)


Pin



Socket

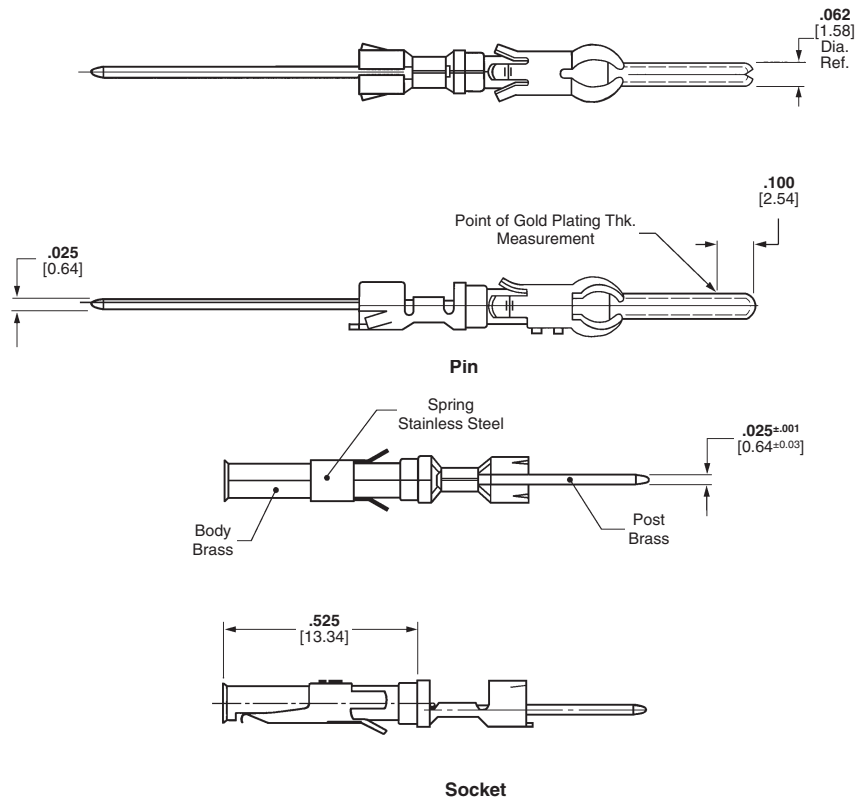
### Material

**Contact Body and Post**—Brass

**Retention Spring**—Stainless steel

### Finish

See chart.



### Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

| Termination Method  | Post Configuration         | Contact Finish                | Loose Piece Contact No. |           |                         |           |                         |           |
|---------------------|----------------------------|-------------------------------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|
|                     |                            |                               | 3 Termination High Post |           | 2 Termination High Post |           | 1 Termination High Post |           |
|                     |                            |                               | Pin                     | Socket    | Pin                     | Socket    | Pin                     | Socket    |
| Wrap-Type           | .025 x .025<br>0.64 x 0.64 | Sel. Gold/Nickel <sup>1</sup> | 6-66460-4               | 6-66461-3 | 6-66460-3               | 6-66461-2 | 6-66460-2               | 5-66461-5 |
|                     |                            | Bright Tin                    | 6-66460-6               | 5-66461-9 | 6-66460-7               | 5-66461-8 | 6-66460-5               | 5-66461-4 |
|                     | .045 x .045<br>1.14 x 1.14 | Sel. Gold/Nickel <sup>1</sup> | 1-66471-5               | 2-66473-0 | —                       | —         | 1-66471-8               | 1-66473-9 |
|                     |                            | Bright Tin                    | 1-66471-7               | 1-66473-8 | —                       | —         | 1-66471-6               | 1-66473-7 |
| TERMI-POINT<br>Clip | .031 x .062<br>0.79 x 1.57 | Sel. Gold/Nickel <sup>1</sup> | 1-66470-1               | —         | —                       | —         | 1-66470-0               | —         |
|                     |                            | Sel. Gold/Nickel <sup>1</sup> | 1-66468-3               | 1-66459-0 | —                       | —         | —                       | —         |

<sup>1</sup>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** (Instruction Sheet 408-1216)

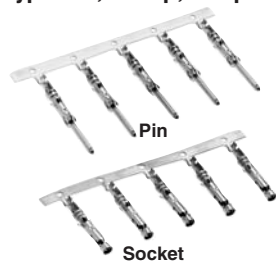
Insertion Tool **Part No. 200893-2**
**Note:** These contacts are used as replacement contacts for all posted connectors.

‡Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 3.

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

## Signal Contacts (Continued)

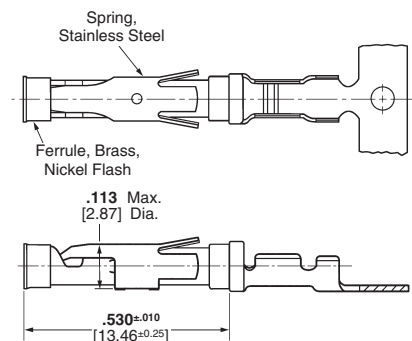
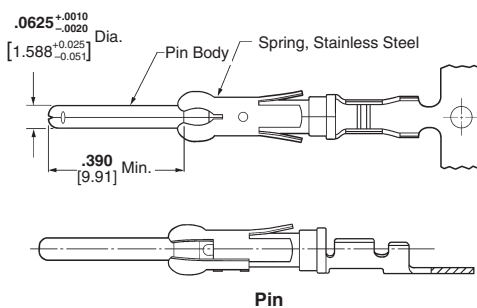
### Enhanced High Current Type III+, Crimp, Snap-In



**Material and Finish** — See chart.

**Contact Body**—Copper Nickel Alloy

**Retention Spring**—Stainless steel



### Related Product Data

**Application Tooling** — Pages 75-78

### Technical Documents

114-10004 Application Specification

108-10024-2 Product Specification

### Contact Size 16—Pin Diameter .062 [1.57]

| Wire Size Range | Ins. Dia. Range                     | Contact Finish | Strip Form Contact No. |           | Loose Piece Contact No. |           | Tooling Part No.**    |                        |
|-----------------|-------------------------------------|----------------|------------------------|-----------|-------------------------|-----------|-----------------------|------------------------|
|                 |                                     |                | Pin                    | Socket    | Pin                     | Socket    | Loose Piece Hand Tool | Strip Form Applicators |
| 18-14           | .080-.100 <sup>1</sup><br>2.03-2.54 | Gold           | 1-66359-6              | 1-66358-9 | 1-66361-4               | 1-66360-4 | 91519-1 <sup>3</sup>  | 466326-□***<br>or      |
|                 |                                     | Tin            | 1-66359-9              | 2-66358-1 | 1-66361-6               | 1-66360-6 |                       | 466923-2***            |
|                 | .110-.150 <sup>2</sup><br>2.79-3.81 | Gold           | 1-66597-0              | 1-66598-1 | 66602-9                 | 1-66601-0 | 91521-1 <sup>3</sup>  | 466958-1***<br>or      |
|                 |                                     | Tin            | 1-66597-1              | 1-66598-2 | 1-66602-0               | 1-66601-2 |                       | 567364-□***            |

<sup>1</sup> Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

<sup>2</sup> Contacts can ONLY be used in CPC, Series 1 (Arr. 23-24), Series 4 (Arr. 23-13M, 23-16M, 23-22M), and VDE connectors.

<sup>3</sup> To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter **Part No. 217201-1**, Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).

\*\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

\*\*\*Call Technical Support for Automatic Machine Applicator Part Numbers.

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

**Ratings Voltage:** 250 Volts AC/DC

600 Volts AC/DC, Series I, VDE tested and select loaded only

**Base Current:** Type III+ contacts: 17 amperes, 30°C temperature rise with single contact on 14 AWG wire

**Enhanced High Current Type III+ contacts: 25 amperes**, 30°C temperature rise with single contact on 14 AWG wire

**Temperature:** -55°C to +105°C

**VDE 0627:** XA/630/4KV/2 - Series I, VDE tested only

### Multiplication Rating Factor (F)

**Type III+ Contacts (Note: 1 = 17 amperes)**

| Shell Size | Percent Connector Loading |        |           |        |           |        |
|------------|---------------------------|--------|-----------|--------|-----------|--------|
|            | Single Circuit            |        | ≈ 50%     |        | 100%      |        |
|            | Wire Size                 |        | Wire Size |        | Wire Size |        |
|            | 30 AWG                    | 14 AWG | 30 AWG    | 14 AWG | 30 AWG    | 14 AWG |
| 11-4       | .291                      | 1      | .212      | .905   | .140      | .684   |
| 13-9       | .278                      | .995   | .175      | .750   | .134      | .567   |
| 17-16      | .270                      | .990   | .146      | .625   | .127      | .472   |
| 23-24      | .281                      | .985   | .138      | .550   | .120      | .416   |
| 23-37      | .275                      | .985   | .131      | .497   | .114      | .376   |

### Enhanced High Current Type III+ Contacts (14 AWG wire only - Note: 1 = 25 amperes)

| Shell Size | Percent Connector Loading |  |        |
|------------|---------------------------|--|--------|
|            | Single Circuit            |  | 100%   |
|            | 14 AWG                    |  | 14 AWG |
| 11-4       | .880                      |  | .640   |
| 13-9       | .880                      |  | .480   |
| 17-16      | .880                      |  | .400   |
| 23-24      | .880                      |  | .400   |
| 23-37      | .880                      |  | .320   |

### Enhanced High Current Contacts & M Series Connectors:

(Note: 1 = 24 amperes)

| Single Circuit | ≈ 50%  | ≈ 100% |
|----------------|--------|--------|
| 14 AWG         | 14 AWG | 14 AWG |
| 1              | .292   | .250   |

### Enhanced High Current Contacts & Metrimate Connectors:

(Note: 1 = 24 amperes)

| Single Circuit | ≈ 50%  | ≈ 100% |
|----------------|--------|--------|
| 14 AWG         | 14 AWG | 14 AWG |
| 1              | .458   | .375   |

## Signal Contacts (Continued)

### Type II, Screw Machined, Crimp

#### Material

**Contact Body**—Brass

**Retention Spring**—Stainless steel

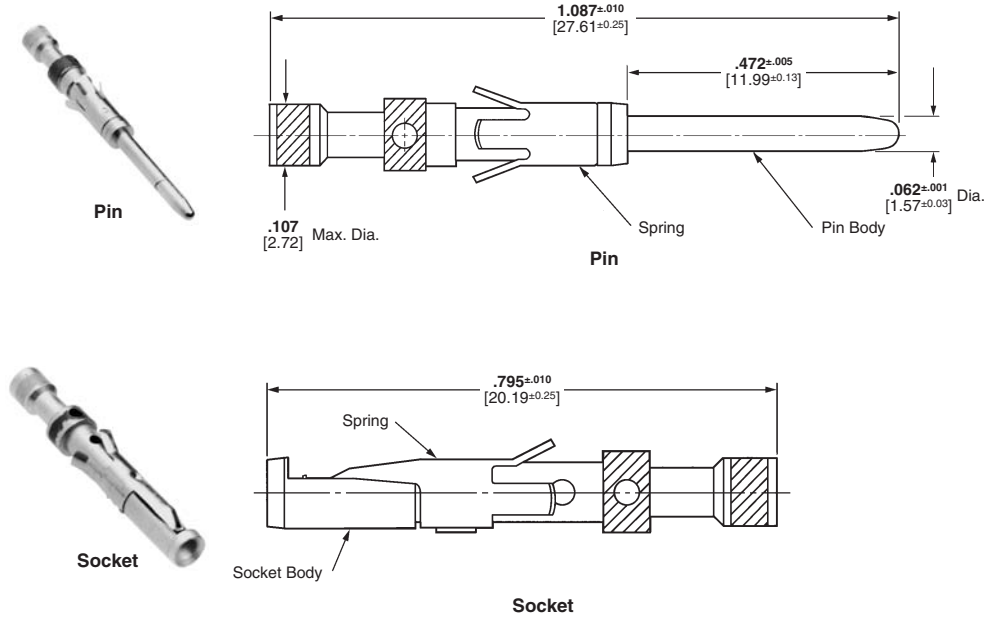
#### Finish

**Contact Body**—.000030 [0.00076]  
gold over .000050 [0.00127]  
nickel. Gold thickness controlled  
on socket O.D.

**Retention Spring**—Stainless steel

#### Related Product Data

**Application Tooling**—Pages 75-78



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

| Wire Size Range |                  | Ins. Dia. Range <sup>1</sup> | Tape Mounted Contact No. <sup>2</sup> |          | Loose Piece Contact No.   |                       | Contact Color Code | Tooling Part No.**                                 |                                                   |                                    |
|-----------------|------------------|------------------------------|---------------------------------------|----------|---------------------------|-----------------------|--------------------|----------------------------------------------------|---------------------------------------------------|------------------------------------|
|                 |                  |                              | Pin                                   | Socket   | Pin                       | Socket                |                    | Tape Mounted Dies for AMP-TAPETRONIC Machine 69875 | Loose Piece Die Set for 626 Pneumatic Tool System | Hand Tool                          |
| 28-24           | 0.08-0.20        | .035-.055<br>0.89-1.40       | 201611-4                              | —        | 201611-14                 | 201613-1 <sup>5</sup> | Red/Red            | 90249-2                                            | 90230-1 <sup>7</sup>                              | 91538-1<br>or 601967-1             |
|                 |                  | .048-.065<br>1.22-1.65       | —                                     | —        | 201334-14                 | 201332-1 <sup>5</sup> | Red/Red            |                                                    | —                                                 | —                                  |
|                 |                  | .095-.110<br>2.41-2.79       | —                                     | —        | 202410-14                 | 202411-1 <sup>5</sup> | Green              |                                                    | —                                                 | 601967-1                           |
| 24-20           | 0.2-0.6          | .040-.062<br>1.02-1.57       | 201578-4                              | —        | 201578-14                 | 201580-1 <sup>5</sup> | Yellow/Red         | 90249-2                                            | 90230-1 <sup>7</sup>                              | 91538-1<br>or 58541-1*             |
|                 |                  | .055-.088<br>1.40-2.16       | 201330-6                              | 201328-9 | 201330-14                 | 201328-1 <sup>5</sup> | Yellow/Red         |                                                    | —                                                 | or 601967-1                        |
| 18<br>(Two)     | 0.9-0.9<br>(Two) | No. Ins. Support             | —                                     | —        | 202725-14                 | 202726-14             | Blue               | —                                                  | 90231-2 <sup>7</sup>                              | 91539-1<br>or 601967-1             |
| 18-16           | 0.8-1.4          | .080-.105<br>2.03-2.67       | —                                     | —        | 202507-14                 | 202508-1 <sup>5</sup> | —                  | —                                                  | —                                                 | 90136-1<br>or 601967-1             |
|                 |                  | No Ins. Support              | 200336-6                              | 200333-8 | 200336-14                 | 200333-14             | Blue/Blue          | 90250-1                                            | 90231-2 <sup>7</sup>                              | 91539-1<br>58541-1*<br>or 601967-1 |
|                 |                  | No Ins. Support              | —                                     | —        | 204219-1 <sup>5,6</sup>   | —                     | Blue/Blue          | —                                                  | —                                                 | —                                  |
| 14              | 2                | No Ins. Support              | 212618-2 <sup>3</sup>                 | —        | 212618-1 <sup>3,6,†</sup> | —                     | Violet/Blue        | 90250-1                                            | 90231-2 <sup>7</sup>                              | 91539-1<br>58541-1*<br>or 601967-1 |
|                 |                  | No Ins. Support              | 201570-2                              | 201568-3 | 201570-14                 | 201568-1 <sup>5</sup> | Violet/Blue        | —                                                  | —                                                 | —                                  |

<sup>1</sup>Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

<sup>2</sup>For AMP-TAPETRONIC Machine No. 69875, order contacts by Tape Mounted Contact No., plus packaging code "IM REEL" (5000 parts per reel).

<sup>3</sup>Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves.

<sup>4</sup>Use turret TH502 (1-601967-6) with hand tool 601967-1.

<sup>5</sup>Use turret TH501 (1-601967-5) with hand tool 601967-1.

<sup>6</sup>Pin length is .630±.005 [16.002±.127] on these two pins.

<sup>7</sup>Die Set requires "C" Head Adapter Part No. 318161-1; Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without); and Power Unit Part No. 189721-2 (hand actuated) or 189722-2 (foot actuated).

\*Commercial PRO-CRIMPER II Hand Tool for field repair use only. **Note:** Die Set can be adapted for use with the 626 Pneumatic Tool System.

\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

†Does not use Hand Tool 91539-1 or 601967-1.

‡Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 8.

**Insertion Tool Part No. 200893-2** (for insulation diameters .070 [1.78] or less).

**Extraction Tool Part No. 305183.**

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



## Signal Contacts (Continued)

### Size 20 DF, Crimp, Snap-In

**Contact Size**—20

**Pin Diameter**—.040 [1.02]

**\*See Product Spec 108-40005**



Pin



Socket

#### Material

**Pin Body**—Brass

**Socket**—Phosphor bronze

#### Contact Finish

**A**—Select gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end

**B**—Duplex plated .000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

**C**—Gold flash over nickel on entire contact

**D**—Duplex plated gold flash on mating end, tin on termination end, with entire contact nickel underplated

Insertion/Extraction Tool **Part No. 91285-1**

Instruction Sheet—408-9404

This tool includes interchangeable tips to Insert/Extract:

Size 22, 28-22 AWG [0.08-0.03mm<sup>2</sup>]

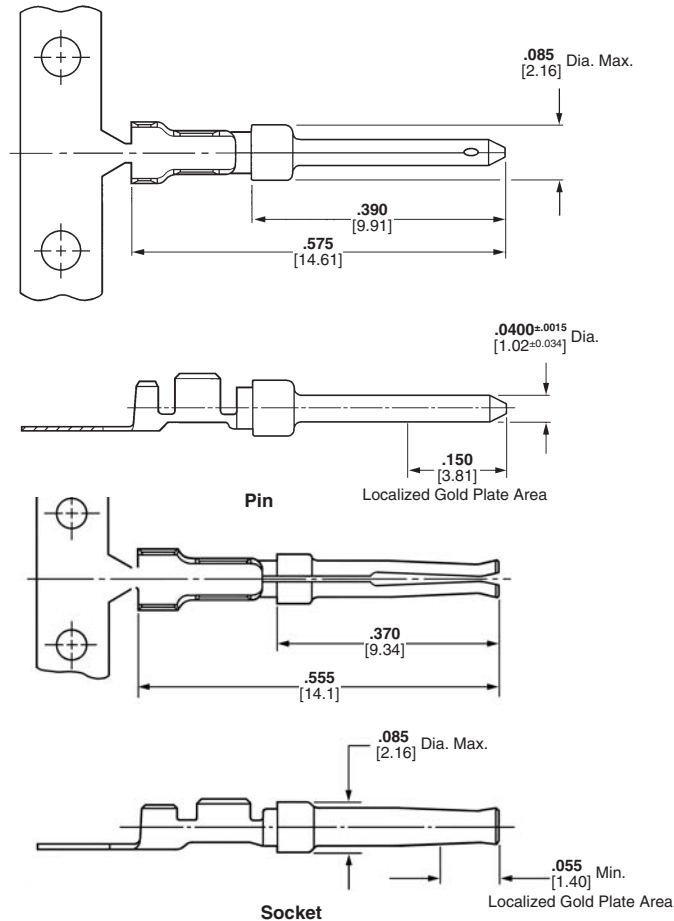
Crimp Contacts

Size 20, 28-20 AWG [0.08-0.6mm<sup>2</sup>]

Crimp and Solder Cup Contacts

Size 20, Posted Contacts

#### With Insulation Support



| Wire Size Range                       | Ins. Dia. Max. | Contact Finish Code | Contact Part Nos. |            |              |            | Tooling**                                                          |           | Color Code (Loose Piece) |
|---------------------------------------|----------------|---------------------|-------------------|------------|--------------|------------|--------------------------------------------------------------------|-----------|--------------------------|
|                                       |                |                     | Pin               |            | Socket       |            | Strip Form Applicator††                                            | Hand Tool |                          |
| 28-24 AWG [0.08-0.2 mm <sup>2</sup> ] | .040 1.02      | A                   | 66507-3◆          | 66507-9◆   | 66505-3◆     | 66505-9◆   | 466423-□††◆<br>or 466901-1††◆<br>or 1016015-1††◆                   | 91503-1†◆ | Blue Dot                 |
|                                       |                | B                   | 1658540-1◆        | 1658540-5◆ | 1658538-2◆   | —          | —                                                                  | —         | —                        |
|                                       |                | C                   | 66507-4◆          | 1-66507-0◆ | 66505-4◆     | 1-66505-0◆ | —                                                                  | —         | —                        |
|                                       |                | D                   | 1658540-5◆        | 1658540-2◆ | 1658538-3◆   | 1658538-1◆ | —                                                                  | —         | —                        |
| 26-22 AWG [0.12-0.4 mm <sup>2</sup> ] | .060 1.52      | A                   | 66682-2◆          | 66682-4◆   | 66683-2◆     | 66683-4◆   | 466758-2††◆<br>or 466963-1††◆<br>or 567804-1††◆                    | 91549-1†◆ | Black Dot                |
|                                       |                | B                   | 5066682-9◆        | —          | 1-5066683-0◆ | —          | —                                                                  | —         | —                        |
|                                       |                | D                   | 5066682-6◆        | —          | 5066683-7◆   | —          | —                                                                  | —         | —                        |
|                                       |                | A                   | 745254-2◆         | 745254-6◆  | 745253-2◆    | 745253-6◆  | —                                                                  | —         | —                        |
| 24-20 AWG [0.2-0.6 mm <sup>2</sup> ]  | .050 1.27      | B                   | 1658544-2◆        | 1658544-1◆ | 1658543-2◆   | 1658543-1◆ | 466968-1††◆<br>or 567036-□††◆<br>or 567849-1††◆                    | 91525-1†◆ | Yellow Dot               |
|                                       |                | C                   | 745254-3◆         | 745254-7◆  | 745253-3◆    | 745253-7◆  | —                                                                  | —         | —                        |
|                                       |                | D                   | 1658544-3◆        | —          | 1658543-3◆   | —          | —                                                                  | —         | —                        |
|                                       |                | A                   | 66506-3◆          | 66506-9◆   | 66504-3◆     | 66504-9◆   | 466422-□††◆<br>or 466900-1††◆<br>or 567801-1††◆<br>or 1016002-1††◆ | 91503-1†◆ | Red Dot                  |
| 24-20 AWG [0.2-0.6 mm <sup>2</sup> ]  | .060 1.52      | B                   | 1658539-1◆        | 1658539-3◆ | 1658537-3◆   | 1658537-4◆ | —                                                                  | —         | —                        |
|                                       |                | C                   | 66506-4◆          | 1-66506-0◆ | 66504-4◆     | 1-66504-0◆ | —                                                                  | —         | —                        |
|                                       |                | D                   | 1658539-2◆        | 1658539-4◆ | 1658537-1◆   | 1658537-2◆ | —                                                                  | —         | —                        |

†To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter **Part No. (Call Technical Support at 800-522-6752)**, Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).

††For complete information on AMP Strip Form Applicators for fully automatic and semiautomatic machines, contact Technical Support: 1-800-522-6752.

**Note:** Commercial PRO-CRIMPER II Maintenance and Repair Hand Tool for Wire Size 28-24 AWG [0.08-0.2mm<sup>2</sup>] (Ins. Dia. Max. .040 [1.02]), and Wire Size 24-20 AWG [0.2-0.6mm<sup>2</sup>] (Ins. Dia. Max. .060 [1.52])—**Part No. 58448-2**.

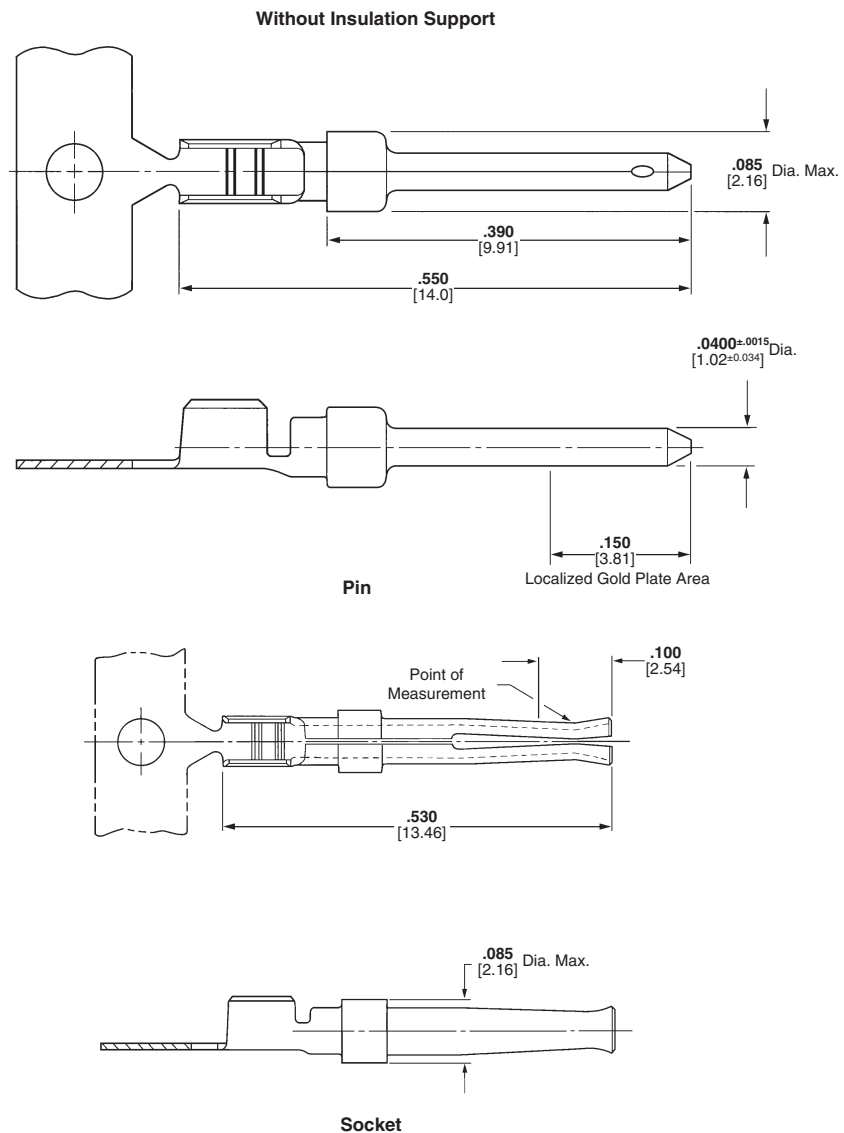
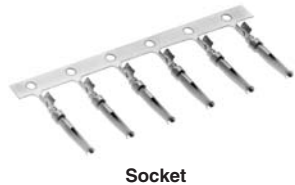
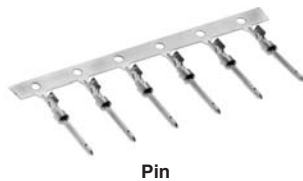
**Note:** Die Set **Part No. 58448-3** can be adapted for use with the 626 Pneumatic Tool System.

\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

**Note:** All part numbers are RoHS compliant except: ◆ Indicates non-RoHS compliant.

## Signal Contacts (Continued)

### Size 20 DF, Crimp, Snap-In (Continued)



| Wire Size Range                          | Ins. Dia. Max. | Contact Finish Code | Contact Part Nos. |           |             |             | Tooling**             |           | Color Code (Loose Piece) |
|------------------------------------------|----------------|---------------------|-------------------|-----------|-------------|-------------|-----------------------|-----------|--------------------------|
|                                          |                |                     | Pin               |           | Socket      |             | Strip Form Applicator | Hand Tool |                          |
| 28-24 AWG<br>[0.08-0.2 mm <sup>2</sup> ] | .068<br>1.73   | A                   | 205310-2◆         | —         | 205311-3◆   | —           | ††                    | —         | —                        |
|                                          |                | C                   | —                 | —         | —           | —           |                       |           |                          |
| 24-20 AWG<br>[0.2-0.6 mm <sup>2</sup> ]  | .068<br>1.73   | A                   | 205202-2◆         | —         | 205201-3◆   | 205201-5◆   | ††                    | 91548-1◆  | Red Dot                  |
|                                          |                | C                   | 205202-6◆         | 205202-7◆ | 205201-6◆   | 205201-7◆   |                       |           |                          |
| 22-18 AWG<br>[0.4-0.8 mm <sup>2</sup> ]  | .068<br>1.73   | A                   | 745229-2◆         | 745229-4◆ | 745230-2◆   | 745230-4◆   | ††                    | 91513-1◆  | Green Dot                |
|                                          |                | B                   | 1-745229-1◆       | —         | 1-745230-1◆ | 1-745230-3◆ |                       |           |                          |
|                                          |                | C                   | 745229-5◆         | 745229-7◆ | 745230-5◆   | 745230-7◆   |                       |           |                          |
|                                          |                | D                   | —                 | —         | 745230-8◆   | —           |                       |           |                          |

††For complete information on AMP Strip Form Applicators for fully automatic and semiautomatic machines, contact Technical Support: 1-800-522-6752.

**Note:** Wire insulation diameter is limited by the connector housing cavity and clearance for the insertion/extraction tool.

\*\*There are power options available for these tools/dies. See Battery Powered Crimp tool Kit and SDE Electric Terminator on page 30.

**Note:** All part numbers are RoHS compliant except: ◆ Indicates non-RoHS compliant.



## Signal Contacts (Continued)

### Size 20 DF, Solder, Snap-In

Contact Size—20

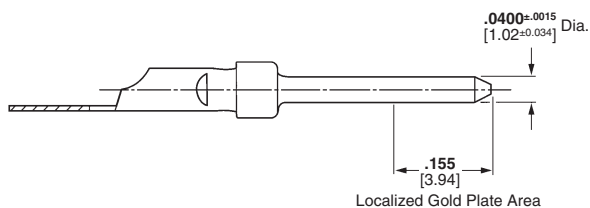
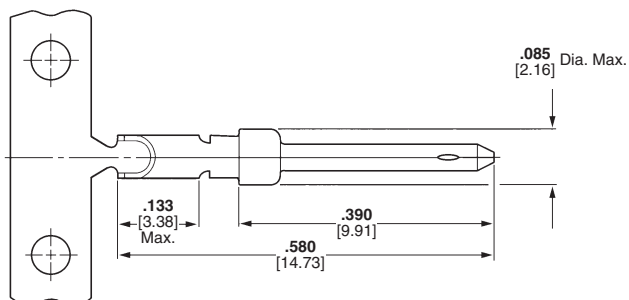
\*See Product Spec 108-40005



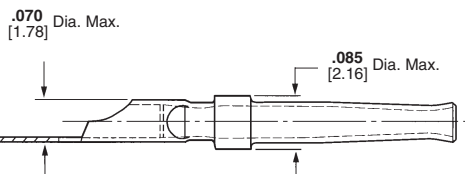
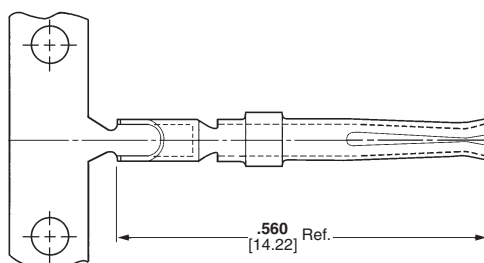
Pin



Socket



Pin



Socket

### Material

**Pin**—Brass

**Socket**—Phosphor bronze

### Contact Finish

Gold flash over nickel on entire contact, with additional .000030 [0.00076] gold on mating end

Contacts to be soldered to wire before being inserted into housing.  
18 AWG [0.8-0.9 mm<sup>2</sup>] Max. Wire

| Strip Form Contact No. |         | Loose Piece Contact No. |         |
|------------------------|---------|-------------------------|---------|
| Pin                    | Socket  | Pin                     | Socket  |
| 66570-2                | 66569-2 | 66570-3                 | 66569-3 |

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