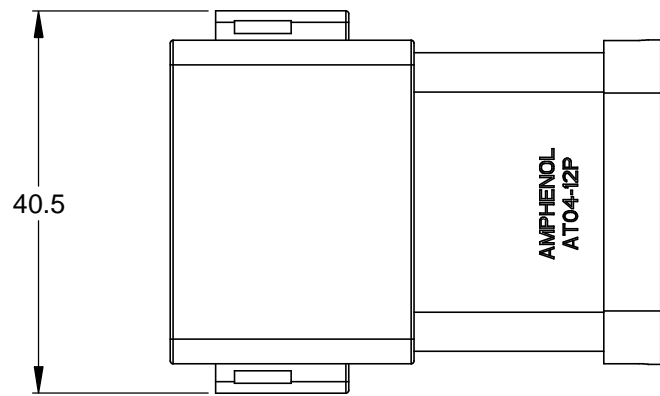
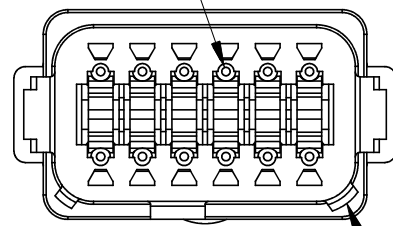


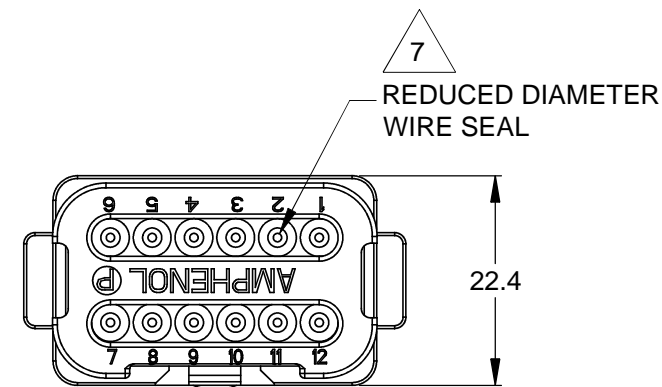
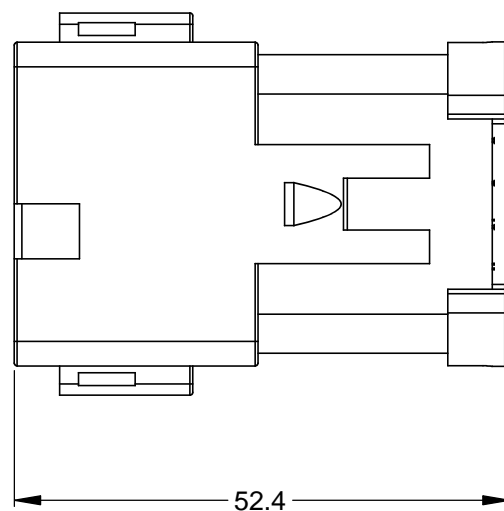
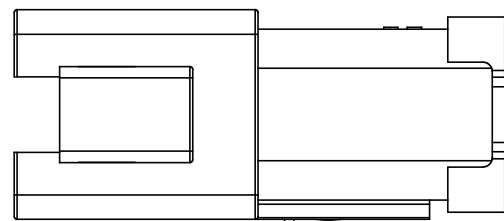
| REVISIONS |     |                            |         |       |      |
|-----------|-----|----------------------------|---------|-------|------|
| REV       | ECO | DESCRIPTION                | DATE    | BY    | APPR |
| A3        | -   | RELEASE NEW DRAWING FORMAT | 03JAN14 | JARRY | -    |



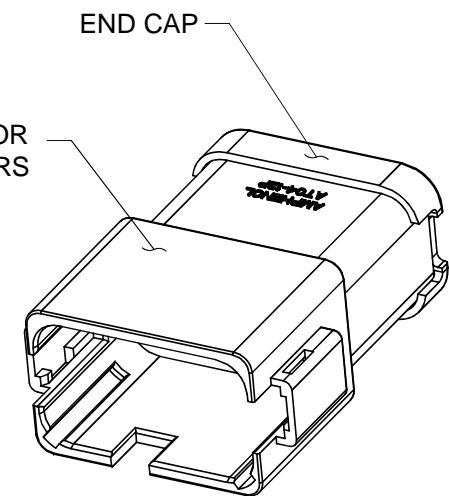
REQUIRES CONTACT RETENTION WEDGE AW12P



1 KEYWAY (3) PLACES



1 REFER TO SHEET 2 FOR AVAILABLE CONNECTOR COLORS



NOTES: UNLESS OTHERWISE SPECIFIED

1 SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.

2. MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER

3. MODIFICATIONS: END CAP;  
REDUCED DIA. WIRE SEAL

4. SPECIFICATIONS:  
4.1 CURRENT RATING: 13 AMPS  
4.2 OPERATING TEMPERATURE: -55°C TO +125°C  
4.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.  
4.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.  
4.5 MOISTURE RESISTANCE: IP67 ( MATED CONDITION )  
4.6 MATING CYCLE DURABILITY: 100 CYCLES  
4.7 RoHS COMPLIANT

5. MATING PART: AT06-12SX\* PLUG  
( X = A,B,C,D KEYS; \* = MODIFICATIONS AND COLORS )

6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

7 CONTACT SIZE AND REAR SEAL WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 16           | 1.35 mm (.053 in) | 3.05 mm (.120 in) | 14 - 20 AWG        |

| QUANTITY   | SEE SHEET 2 PART NUMBER | DESCRIPTION   | ITEM                       |
|--|-------------------------|---|----------------------------|
| <b>MATERIALS LIST</b>  |                         |   |                            |
| UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric (mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>Fractions ±1/64<br>Angles ±1°<br>3) Note reference = X |                         | SIGNATURES<br>DRAWN: JARRY<br>CHECKED:<br>ENGINEER:<br>APPROVAL:  | DATE<br>03JAN14            |
| MATERIAL SPECIFICATIONS:   |                         | <p style="text-align: center;"><b>Amphenol</b></p> <p style="text-align: center;">Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</p> <p style="text-align: center;"><b>RECEPTACLE, 12 PIN, AT SERIES, KEYED<br/>REDUCED DIAMETER WIRE SEAL, END CAP</b></p> |                            |
| PROCESS SPECIFICATIONS:  |                         |   |                            |
| NEXT ASSY:   | CUSTOMER:               | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.                                    |                            |
| SCALE: NONE  |                         | SIZE: <b>B C-</b>   | REVISION: <b>A3</b>        |
|  |                         | DWG NO: <b>AT04-12PX-MMXXX</b>  | SHEET <b>1</b> OF <b>2</b> |

TITLE: RECEPTACLE, 12 PIN, AT SERIES, KEYED, REDUCED DIA WIRE SEAL, END CAP

DWG NO: AT04-12PX-MMXXX

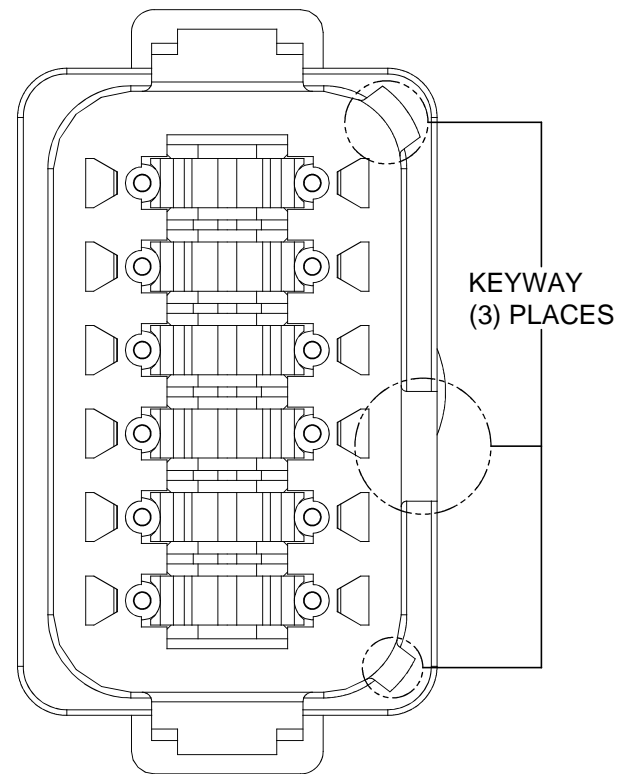
REV: A3

SH: 1

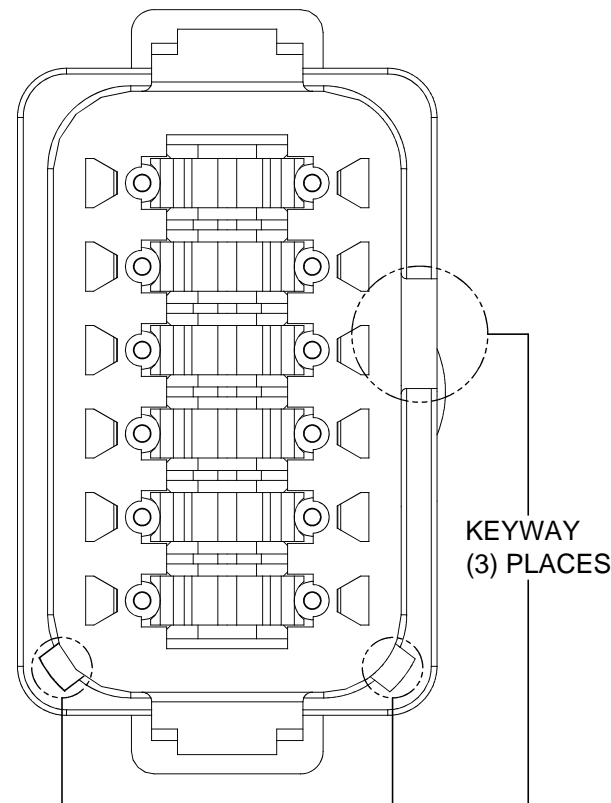
OF: 2

| REVISIONS |     |                            |         |       |      |
|-----------|-----|----------------------------|---------|-------|------|
| REV       | ECO | DESCRIPTION                | DATE    | BY    | APPR |
| A3        | -   | RELEASE NEW DRAWING FORMAT | 03JAN14 | JARRY | -    |

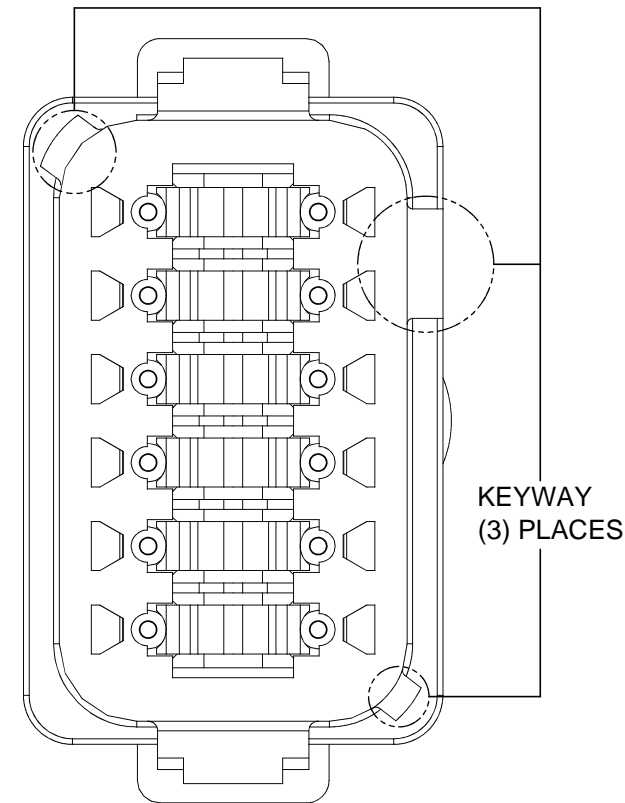
P/N AT04-12PA-MM01  
KEY-A CONFIGURATION  
STANDARD COLOR: GREY



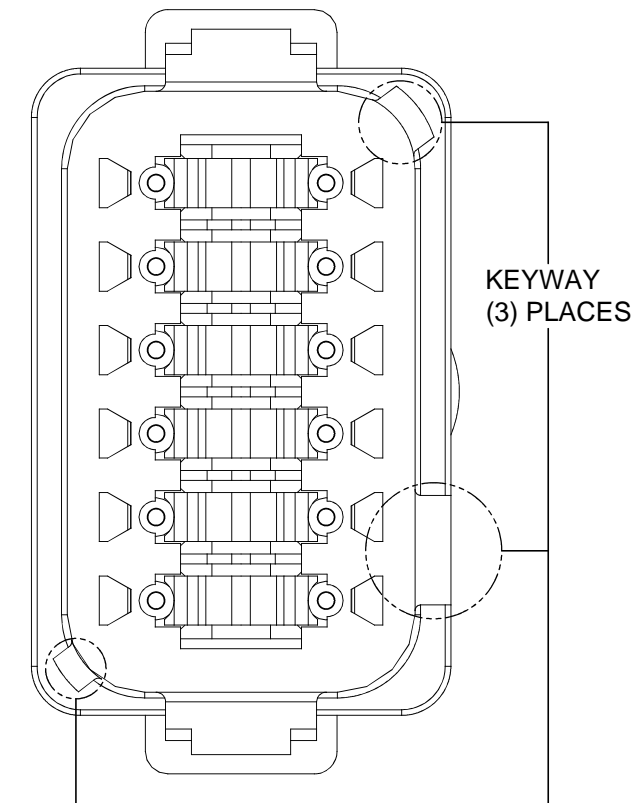
P/N AT04-12PB-MM01  
KEY-B CONFIGURATION  
STANDARD COLOR: BLACK



P/N AT04-12PC-MM01  
KEY-C CONFIGURATION  
STANDARD COLOR: GREEN



P/N AT04-12PD-MM01  
KEY-D CONFIGURATION  
STANDARD COLOR: BROWN



| KEY-A CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| * GREY              | AT04-12PA-MM01  |
| BLACK               | AT04-12PA-MMBLK |
| GREEN               | AT04-12PA-MMGRN |
| BROWN               | AT04-12PA-MMBRN |

| KEY-B CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PB-MMGRY |
| * BLACK             | AT04-12PB-MM01  |
| GREEN               | AT04-12PB-MMGRN |
| BROWN               | AT04-12PB-MMBRN |

| KEY-C CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PC-MMGRY |
| BLACK               | AT04-12PC-MMBLK |
| * GREEN             | AT04-12PC-MM01  |
| BROWN               | AT04-12PC-MMBRN |

| KEY-D CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PD-MMGRY |
| BLACK               | AT04-12PD-MMBLK |
| GREEN               | AT04-12PD-MMGRN |
| * BROWN             | AT04-12PD-MM01  |

NOTE:

AN ASTERISKS ( \* ) PLACED BEFORE THE COLOR DENOTES THE STANDARD MOLDED COLOR OF THE CONNECTORS SHOWN ABOVE.

OTHER COLORS SHOWN ARE AVAILABLE VIA SPECIAL ORDER.

TITLE: RECP:12 PIN,AT,KEYED,REDUCED DIA WIRE SEAL,END CAP  
DWG NO: AT04-12PX-MMXXX  
REV: A3  
SH: 2  
OF: 2

| QUANTITY  | PART NUMBER | DESCRIPTION  | ITEM         |            |      |              |          |          |    |                 |    |           |      |  |              |
|---|-------------|--|--------------|------------|------|--------------|----------|----------|----|-----------------|----|-----------|------|--|--------------|
| <b>MATERIALS LIST</b>   |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| UNLESS OTHERWISE SPECIFIED  |             | <table border="1"> <tr> <th>SIGNATURES</th> <th>DATE</th> </tr> <tr> <td>DRAWN: JARRY</td> <td>04JAN13</td> </tr> <tr> <td>CHECKED:</td> <td></td> </tr> <tr> <td>ENGINEER:</td> <td></td> </tr> <tr> <td>APPROVAL:</td> <td></td> </tr> </table>                    |              | SIGNATURES | DATE | DRAWN: JARRY | 04JAN13  | CHECKED: |    | ENGINEER:       |    | APPROVAL: |      |  |              |
| SIGNATURES  | DATE        |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| DRAWN: JARRY  | 04JAN13     |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| CHECKED:  |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| ENGINEER:   |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| APPROVAL:   |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| 1) All dimensions are in metric(mm).  |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| 2) Tolerances are as follows:   |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| 1 PL DEC ±0.30      Fractions ±1/64<br>2 PL DEC ±0.15      Angles ±1°<br>3 PL DEC ±0.08 |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| 3) Note reference =   |             |  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| MATERIAL SPECIFICATIONS:  |             | CUSTOMER:  |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| PROCESS SPECIFICATIONS:   |             | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |              |            |      |              |          |          |    |                 |    |           |      |  |              |
| NEXT ASSY:  |             | <table border="1"> <tr> <td>SIZE</td> <td>TYPE</td> <td>DWG NO:</td> <td>REVISION</td> </tr> <tr> <td>B</td> <td>C-</td> <td>AT04-12PX-MMXXX</td> <td>A3</td> </tr> <tr> <td>SCALE:</td> <td colspan="2">NONE</td> <td>SHEET 2 OF 2</td> </tr> </table>              |              | SIZE       | TYPE | DWG NO:      | REVISION | B        | C- | AT04-12PX-MMXXX | A3 | SCALE:    | NONE |  | SHEET 2 OF 2 |
| SIZE  | TYPE        | DWG NO:  | REVISION     |            |      |              |          |          |    |                 |    |           |      |  |              |
| B   | C-          | AT04-12PX-MMXXX  | A3           |            |      |              |          |          |    |                 |    |           |      |  |              |
| SCALE:  | NONE        |  | SHEET 2 OF 2 |            |      |              |          |          |    |                 |    |           |      |  |              |



**Amphenol**

Sine Systems - www.amphenol-sine.com  
44724 Morley Drive  
Clinton Township, MI 48036

**RECEPTACLE, 12 PIN, AT SERIES, KEYED  
REDUCED DIAMETER WIRE SEAL, END CAP**



# AT Series™ - Contact Size 16 Options

| Machined Contacts, Sockets & Pins |  |      |       |          |
|-----------------------------------|--|------|-------|----------|
| Part Number                       | Description                            | Size | AWG   | Type     |
| AT60-215-1631                     | Male Contact - Pin, Gold-plated        | 16   | 14    | Machined |
| AT62-209-1631                     | Female Contact - Socket, Gold-plated   | 16   | 14    | Machined |
| AT60-215-16141                    | Male Contact - Pin, Nickel-plated      | 16   | 14    | Machined |
| AT62-209-16141                    | Female Contact - Socket, Nickel-plated | 16   | 14    | Machined |
| AT60-202-1631                     | Male Contact - Pin, Gold-plated        | 16   | 16-20 | Machined |
| AT62-201-1631                     | Female Contact - Socket, Gold-plated   | 16   | 16-20 | Machined |
| AT60-202-16141                    | Male Contact - Pin, Nickel-plated      | 16   | 16-20 | Machined |
| AT62-201-16141                    | Female Contact - Socket, Nickel-plated | 16   | 16-20 | Machined |
| AT60-202-1631-22                  | Male Contact - Pin, Gold-plated        | 16   | 22-24 | Machined |
| AT62-201-1631-22                  | Female Contact - Socket, Gold-plated   | 16   | 22-24 | Machined |
| AT60-202-16141-22                 | Male Contact - Pin, Nickel-plated      | 16   | 22-24 | Machined |
| AT62-201-16141-22                 | Female Contact - Socket, Nickel-plated | 16   | 22-24 | Machined |

| Tooling - Machined Contacts   |             |   |
|---|-------------|---|
| Part  | Part Number | Description   |
|  | CA-5D12     | Universal Hand Crimp Tool, Size 12/16/20 (Machined contacts only) |
|  | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20 (Machined contacts only)      |

| Contact Removal Tools   |               |   |
|---|---------------|---|
| Part  | Part Number   | Description   |
|  | ATRT-100      | Used for removal of contacts for A Series™ products |
|  | AT11-310-1605 | Contact Removal Tool, Plastic, Size 16              |
|  | A114017       | Sealing Plug, Size 16, White                        |

| Stamped & Formed Contacts, Sockets & Pins |  |      |       |                  |
|---|--|------|-------|------------------|
| Part Number                               | Description                            | Size | AWG   | Type             |
| AT60-14-0144                              | Male Contact - Pin, Gold-plated        | 16   | 14-16 | Stamped & Formed |
| AT62-14-0144                              | Female Contact - Socket, Gold-plated   | 16   | 14-16 | Stamped & Formed |
| AT60-14-0122                              | Male Contact - Pin, Nickel-plated      | 16   | 14-16 | Stamped & Formed |
| AT62-14-0122                              | Female Contact - Socket, Nickel-plated | 16   | 14-16 | Stamped & Formed |
| AT60-16-0144                              | Male Contact - Pin, Gold-plated        | 16   | 16-18 | Stamped & Formed |
| AT62-16-0144                              | Female Contact - Socket, Gold-plated   | 16   | 16-18 | Stamped & Formed |
| AT60-16-0122                              | Male Contact - Pin, Nickel-plated      | 16   | 16-18 | Stamped & Formed |
| AT62-16-0122                              | Female Contact - Socket, Nickel-plated | 16   | 16-18 | Stamped & Formed |
| AT60-16-0644                              | Male Contact - Pin, Gold-plated        | 16   | 18-20 | Stamped & Formed |
| AT62-16-0644                              | Female Contact - Socket, Gold-plated   | 16   | 18-20 | Stamped & Formed |
| AT60-16-0622                              | Male Contact - Pin, Nickel-plated      | 16   | 18-20 | Stamped & Formed |
| AT62-16-0622                              | Female Contact - Socket, Nickel-plated | 16   | 18-20 | Stamped & Formed |
| AT60-16-0844                              | Male Contact - Pin, Gold-plated        | 16   | 20-22 | Stamped & Formed |
| AT62-16-0844                              | Female Contact - Socket, Gold-plated   | 16   | 20-22 | Stamped & Formed |
| AT60-16-0822                              | Male Contact - Pin, Nickel-plated      | 16   | 20-22 | Stamped & Formed |
| AT62-16-0822                              | Female Contact - Socket, Nickel-plated | 16   | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts   |             |   |
|---|-------------|---|
| Part  | Part Number | Description   |
|   | MFX-3950    | Crimp Die - Size 16, 18-20AWG (S&F contacts only)       |
|   | MFX-3953    | Crimp Die - Size 16, 16-18AWG (S&F contacts only)       |
|   | MFX-3975    | Crimp Die - Size 16, 14-16AWG (S&F contacts only)       |
|   | MFX-3990    | Crimp Die - Size 16, 20-22AWG (S&F contacts only)       |
|  | ATT-16-00   | Hand Crimp Tool - Size 16, 14-16AWG (S&F contacts only) |
|   | ATT-16-01   | Hand Crimp Tool - Size 16, 18-20AWG (S&F contacts only) |
|   | ATT-1612-03 | Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only) |

**Amphenol Sine Systems**  
 44724 Morley Drive  
 Clinton Township, MI 48036 USA  
[www.amphenol-sine.com](http://www.amphenol-sine.com)  
 09/2021