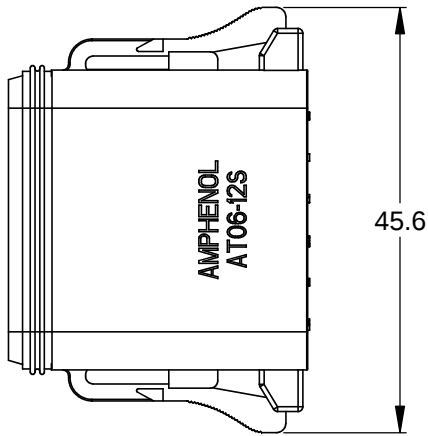
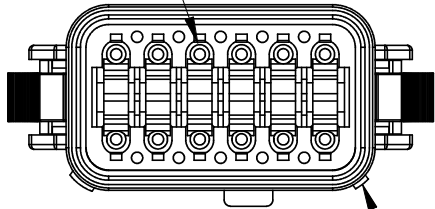


| REVISIONS |     |                            |         |       |      |
|-----------|-----|----------------------------|---------|-------|------|
| REV       | ECO | DESCRIPTION                | DATE    | BY    | APPR |
| A3        | -   | RELEASE NEW DRAWING FORMAT | 02JAN14 | JARRY | -    |

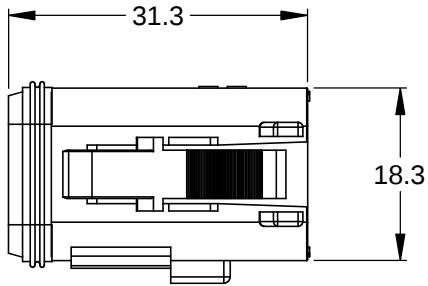


45.6

REQUIRES CONTACT  
RETENTION WEDGE AW12S

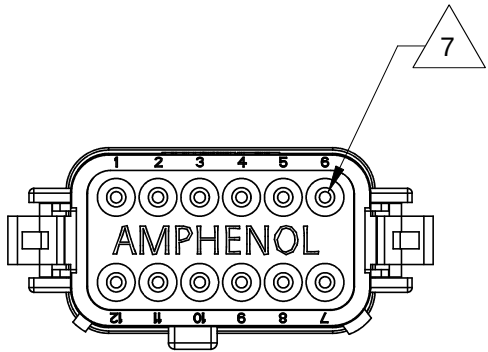


1 KEYWAY (3) PLACES

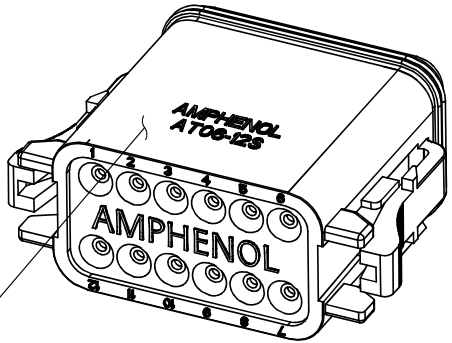


31.3

18.3



7



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: N/A

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: AT04-12PX\* RECEPTACLE  
( 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<br>SIZE | MIN. INSUL<br>O.D.   | MAX. INSUL<br>O.D.   | TYPICAL<br>WIRE RANGE |
|-----------------|----------------------|----------------------|-----------------------|
| 16              | 2.24 mm<br>(.088 in) | 3.68 mm<br>(.145 in) | 14 - 20 AWG           |

|                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                    |  |              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
|                                                                                                                                                                                                                                                                     |  | SEE SHEET 2                                                                                                                                                                                                                                                          |  |             |  |                                                                                                                                                                                    |  |              |  |
|                                                                                                                                                                                                                                                                     |  | PART NUMBER                                                                                                                                                                                                                                                          |  | DESCRIPTION |  |                                                                                                                                                                                    |  | ITEM         |  |
| QUANTITY                                                                                                                                                                                                                                                            |  | MATERIALS LIST                                                                                                                                                                                                                                                       |  |             |  |                                                                                                                                                                                    |  |              |  |
| <div>UNLESS OTHERWISE SPECIFIED</div> <div>1) All dimensions are in metric(mm).</div> <div>2) Tolerances are as follows:</div> <div>1 PL DEC ±0.30</div> <div>2 PL DEC ±0.15</div> <div>3 PL DEC ±0.08</div> <div>3) Note reference = <div><div>x</div></div></div> |  | SIGNATURES                                                                                                                                                                                                                                                           |  | DATE        |  | <div>Amphenol</div> <div>Sine Systems - <a href="http://www.amphenol-sine.com">www.amphenol-sine.com</a></div> <div>44724 Morley Drive</div> <div>Clinton Township, MI 48036</div> |  |              |  |
|                                                                                                                                                                                                                                                                     |  | DRAWN: JARRY                                                                                                                                                                                                                                                         |  | 02JAN14     |  |                                                                                                                                                                                    |  |              |  |
|                                                                                                                                                                                                                                                                     |  | CHECKED:                                                                                                                                                                                                                                                             |  |             |  |                                                                                                                                                                                    |  |              |  |
|                                                                                                                                                                                                                                                                     |  | ENGINEER:                                                                                                                                                                                                                                                            |  |             |  |                                                                                                                                                                                    |  |              |  |
|                                                                                                                                                                                                                                                                     |  | APPROVAL:                                                                                                                                                                                                                                                            |  |             |  |                                                                                                                                                                                    |  |              |  |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                            |  | CUSTOMER:                                                                                                                                                                                                                                                            |  |             |  | <div>PLUG, 12 SOCKET,</div> <div>AT SERIES, KEYED</div>                                                                                                                            |  |              |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                    |  |              |  |
|                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                    |  |              |  |
| 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 ASS'Y:                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                      |  | SCALE: NONE |  |                                                                                                                                                                                    |  | SHEET 1 OF 2 |  |
|                                                                                                                                                                                                                                                                     |  | SIZE B                                                                                                                                                                                                                                                               |  | TYPE C-     |  | DWG NO: AT06-12SX-XXX                                                                                                                                                              |  | REVISION A3  |  |

TITLE:

PLUG, 12 SOCKET, AT SERIES, KEYED

DWG NO:

AT06-12SX-XXX

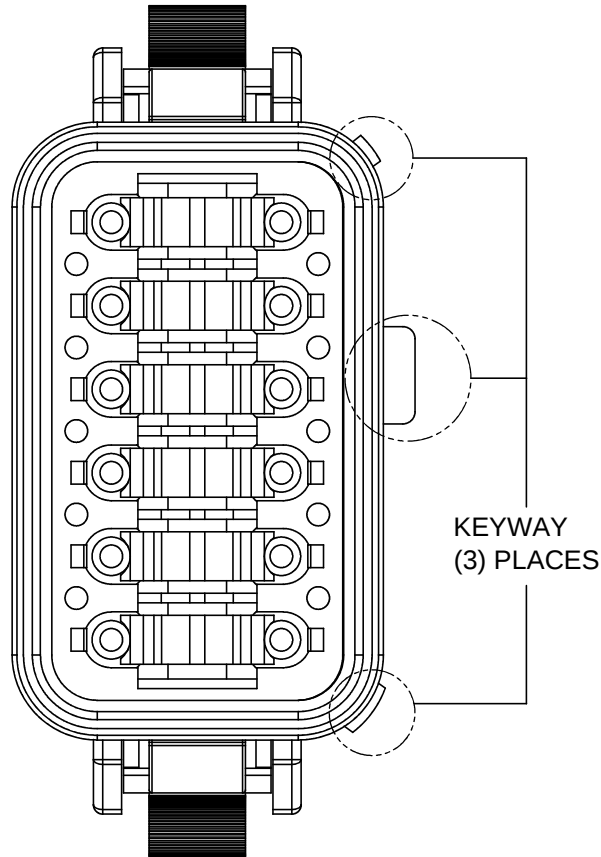
REV: A3

SH: 1

OF: 2

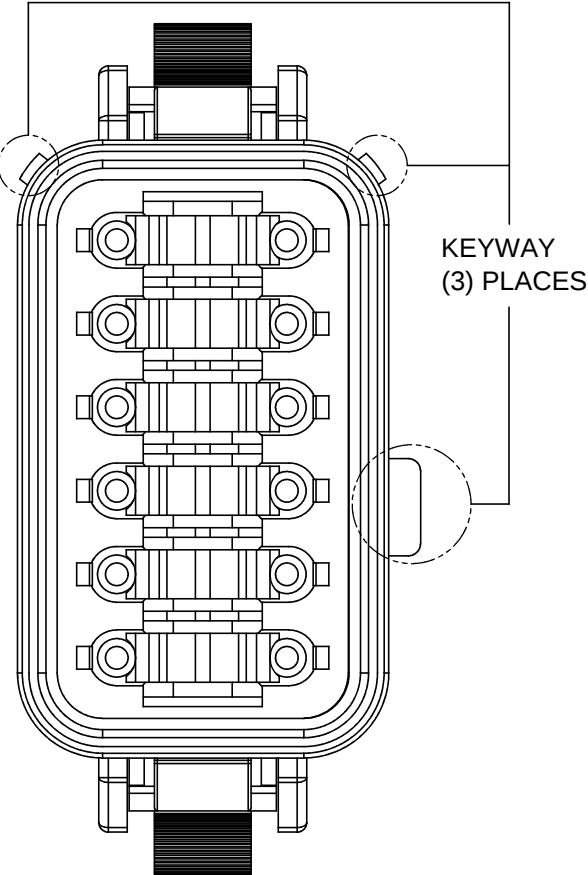
| REVISIONS |     |             |      |    |      |
|-----------|-----|-------------|------|----|------|
| REV       | ECO | DESCRIPTION | DATE | BY | APPR |

P/N AT06-12SA  
KEY-A CONFIGURATION  
STANDARD COLOR: GREY



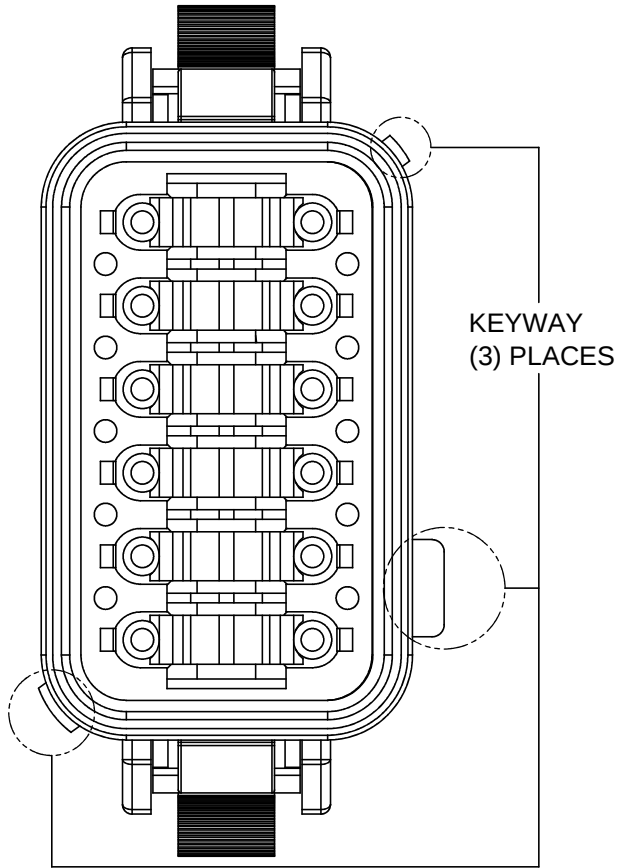
| KEY-A CONFIGURATION |               |
|---------------------|---------------|
| COLOR               | PART NUMBER   |
| *GREY               | AT06-12SA     |
| BLACK               | AT06-12SA-BLK |
| GREEN               | AT06-12SA-GRN |
| BROWN               | AT06-12SA-BRN |

P/N AT06-12SB  
KEY-B CONFIGURATION  
STANDARD COLOR: BLACK



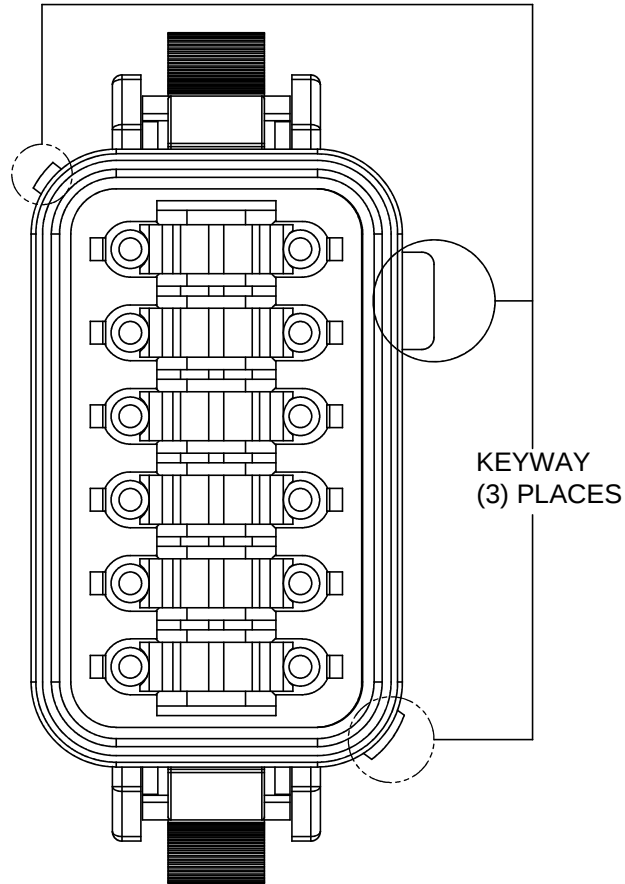
| KEY-B CONFIGURATION |               |
|---------------------|---------------|
| COLOR               | PART NUMBER   |
| GREY                | AT06-12SB-GRY |
| *BLACK              | AT06-12SB     |
| GREEN               | AT06-12SB-GRN |
| BROWN               | AT06-12SB-BRN |

P/N AT06-12SC  
KEY-C CONFIGURATION  
STANDARD COLOR: GREEN



| KEY-C CONFIGURATION |               |
|---------------------|---------------|
| COLOR               | PART NUMBER   |
| GREY                | AT06-12SC-GRY |
| BLACK               | AT06-12SC-BLK |
| *GREEN              | AT06-12SC     |
| BROWN               | AT06-12SC-BRN |

P/N AT06-12SD  
KEY-D CONFIGURATION  
STANDARD COLOR: BROWN



| KEY-D CONFIGURATION |               |
|---------------------|---------------|
| COLOR               | PART NUMBER   |
| GREY                | AT06-12SD-GRY |
| BLACK               | AT06-12SD-BLK |
| GREEN               | AT06-12SD-GRN |
| *BROWN              | AT06-12SD     |

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.

| QUANTITY                                                                                                                                                                         | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                          | ITEM                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MATERIALS LIST                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                      |                                                                                                                                                                            |
| 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>3) Note reference = |             | SIGNATURES<br>DRAWN: JARRY<br>CHECKED:<br>ENGINEER:<br>APPROVAL:<br>DATE<br>02JAN14                                                                                                                                                                                  | <div>Amphenol</div> <div>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> <div>PLUG, 12 SOCKET,<br/>AT SERIES, KEYED</div> |
| 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:                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                      |                                                                                                                                                                            |
| SIZE<br>B                                                                                                                                                                        | TYPE<br>C-  | DWG NO:<br>AT06-12SX-XXX                                                                                                                                                                                                                                             | REVISION<br>A3                                                                                                                                                             |
| SCALE:<br>NONE                                                                                                                                                                   |             | SHEET 2 OF 2                                                                                                                                                                                                                                                         |                                                                                                                                                                            |

TITLE: PLUG, 12 SOCKET, AT SERIES, KEYED  
DWG NO.: AT06-12SX-XXX  
REV: A3  
SH: 2  
OF: 2

## A Series™ - Contact Size 16 Options (Works with: AT, ATV, AHD-9, ARC, DuraMate and PanelMate Series)

| 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 Number                 | Description                                                   |
| AUTK-20                     | Hand Crimp Tool, Size 20                                      |
| AUTK-100                    | Universal Heavy Duty Contact Crimping Tool Kit, Size 12/16/20 |
| CA-5D12                     | Universal Hand Crimp Tool, Size 12/16/20                      |
| CA-5E12                     | Pneumatic Crimp Tool, Size 12/16/20                           |

| Contact Removal Tools (For both Machined or Stamped & Formed Contacts) |                                        |
|------------------------------------------------------------------------|----------------------------------------|
| Part Number                                                            | Description                            |
| ATRT-100                                                               | Contact and Wedgelock Extraction Tool  |
| AT11-310-1605                                                          | Contact Removal Tool, Plastic, Size 16 |

| Sealing Plugs (For both Machined or Stamped & Formed Contacts) |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| Part Number                                                    | Description                                     |
| A114017                                                        | Sealing Plug, Size 16, White                    |
| A114017-SR                                                     | Sealing Plug, Size 16, SR01 Series, Black       |
| AT13-217-1605                                                  | Locking Sealing Plug, Size 16, Grey             |
| AT13-217-1605-SR                                               | Locking Sealing Plug, Size 16, SR01 Series, Red |

| 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 |                                     |
|-------------------------------------|-------------------------------------|
| MF3-3950                            | Crimp Die - Size 16, 18-20AWG       |
| MF3-3953                            | Crimp Die - Size 16, 16-18AWG       |
| MF3-3975                            | Crimp Die - Size 16, 14-16AWG       |
| MF3-3990                            | Crimp Die - Size 16, 20-22AWG       |
| ATT-16-00                           | Hand Crimp Tool - Size 16, 14-16AWG |
| ATT-16-01                           | Hand Crimp Tool - Size 16, 18-20AWG |
| ATT-1612-03                         | Hand Crimp Tool - Size 16, 20-22AWG |