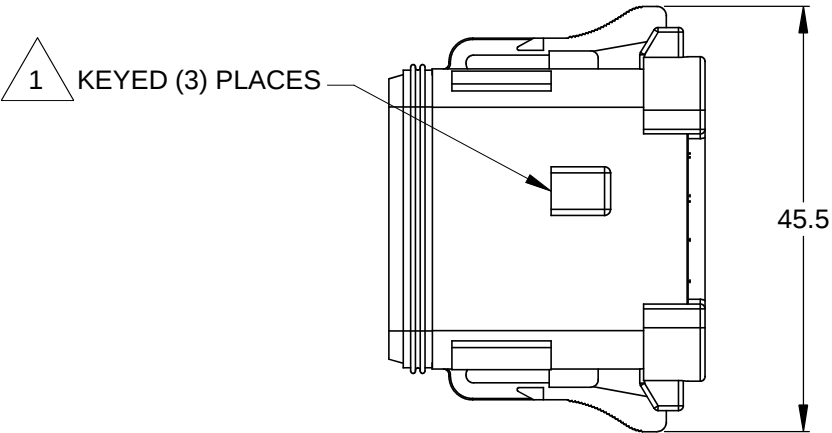
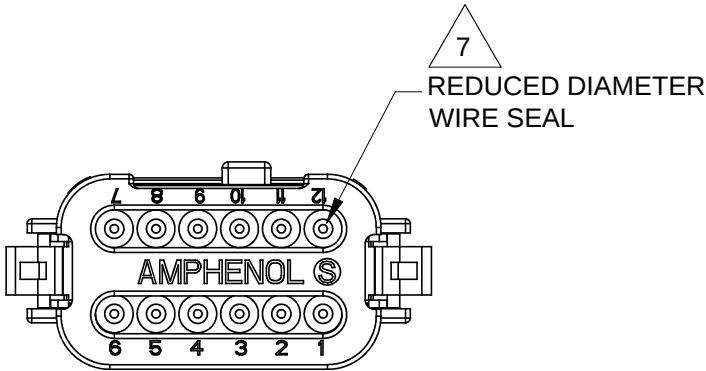
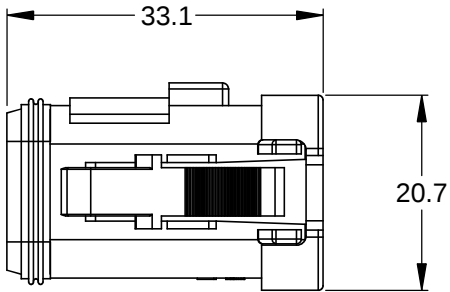
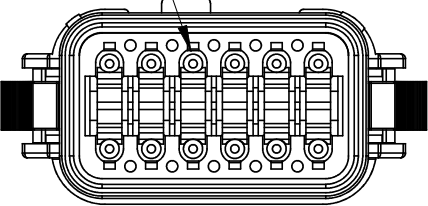


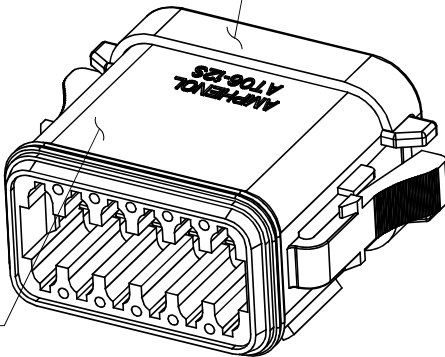
| REVISIONS |     |                            |         |       |      |
|-----------|-----|----------------------------|---------|-------|------|
| REV       | ECO | DESCRIPTION                | DATE    | BY    | APPR |
| A3        | -   | RELEASE NEW DRAWING FORMAT | 02JAN14 | JARRY | -    |



REQUIRES CONTACT  
RETENTION WEDGE AW12S



STANDARD END CAP



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 DIAMETER 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: 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 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        |

1 REFER TO SHEET 2 FOR  
AVAILABLE CONNECTOR COLORS

|                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                      |      |                                                                                                                                                                                    |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                                                                                                                                                                                                                                                                                                                      |  | 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>Fractions ±1/64</div> <div>Angles ±1°</div> <div>3) Note reference = <div><div>x</div></div></div> |  | <div>SIGNATURES</div> <div>DRAWN: JARRY</div> <div>CHECKED:</div> <div>ENGINEER:</div> <div>APPROVAL:</div>                                                                                                                                                          |      | <div>DATE</div> <div>02JAN14</div>                                                                                                                                                 |          |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                                                                             |  | CUSTOMER:                                                                                                                                                                                                                                                            |      | <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> |          |
| 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:                                                                                                                                                                                                                                                                                                          |  | SIZE                                                                                                                                                                                                                                                                 | TYPE | DWG NO:                                                                                                                                                                            | REVISION |
|                                                                                                                                                                                                                                                                                                                      |  | B                                                                                                                                                                                                                                                                    | C-   | AT06-12SX-MMXXX                                                                                                                                                                    | A3       |
|                                                                                                                                                                                                                                                                                                                      |  | SCALE: NONE                                                                                                                                                                                                                                                          |      | SHEET 1 OF 2                                                                                                                                                                       |          |

TITLE: PLUG, 12 SOCKET, AT END CAP, KEYED, REDUCED DIA. WIRE SEAL

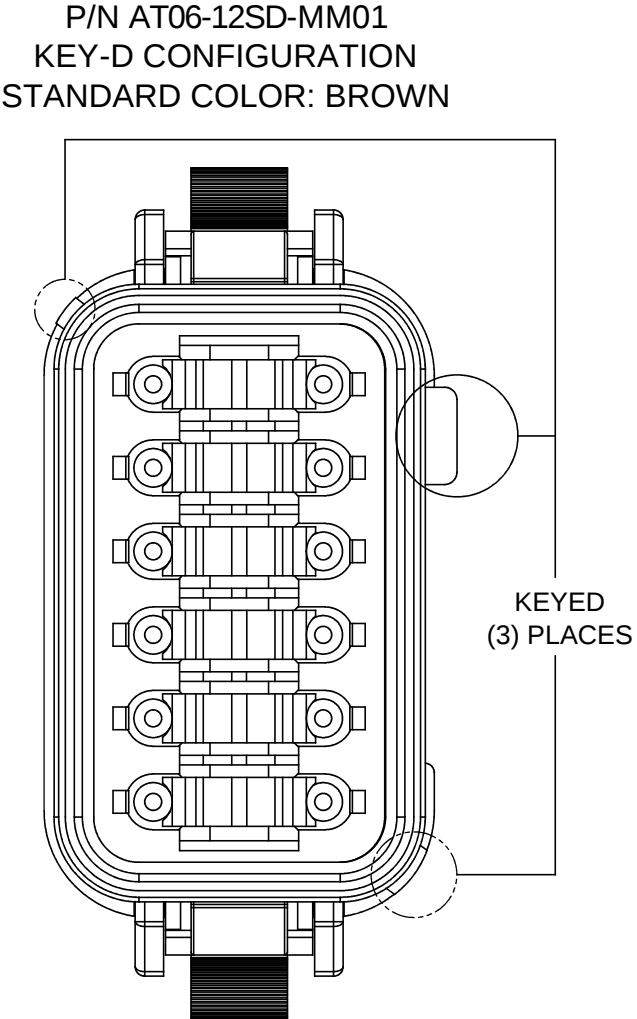
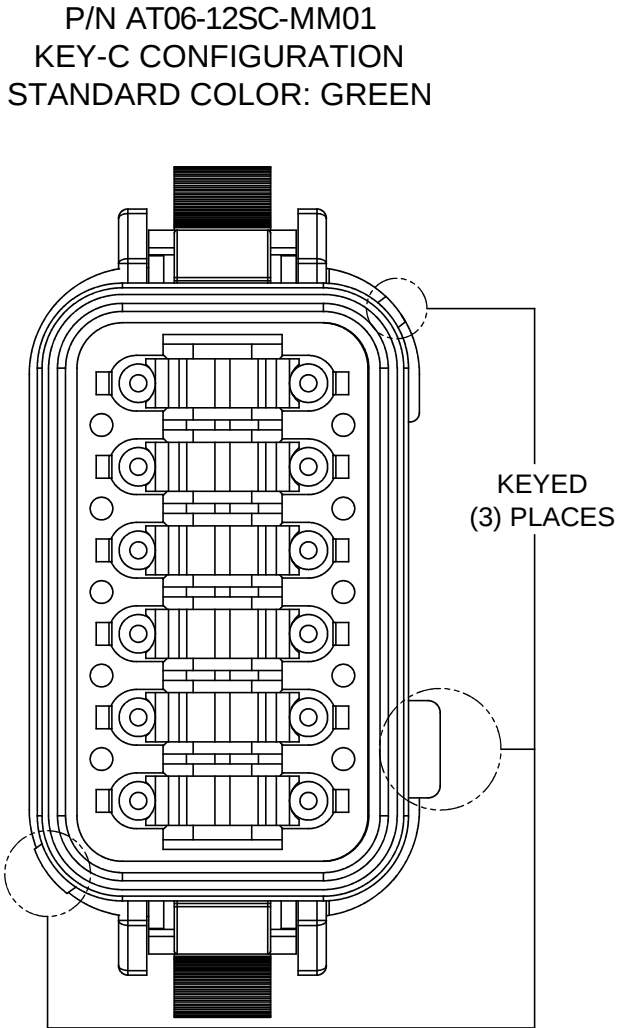
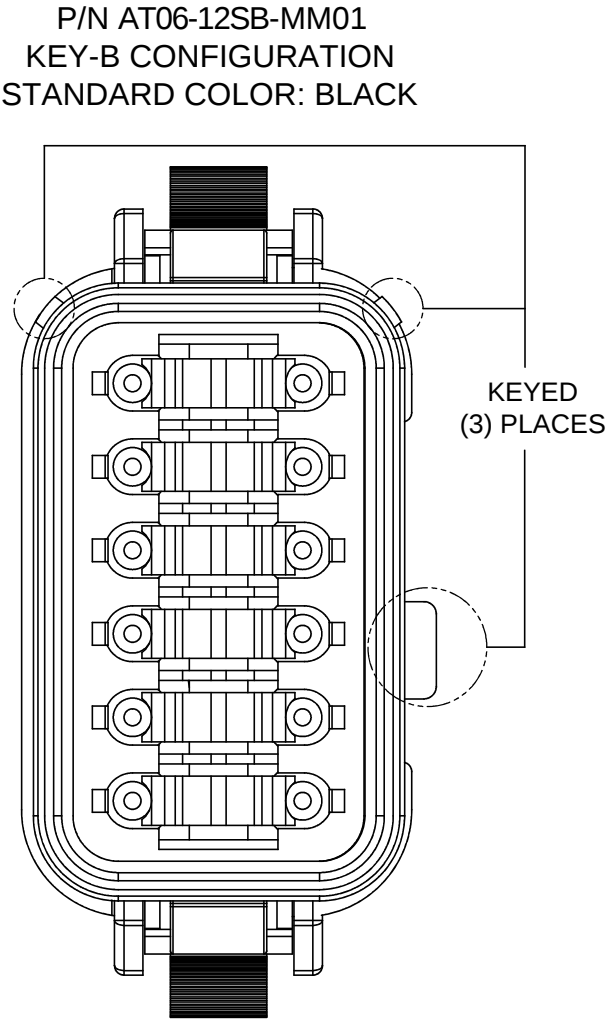
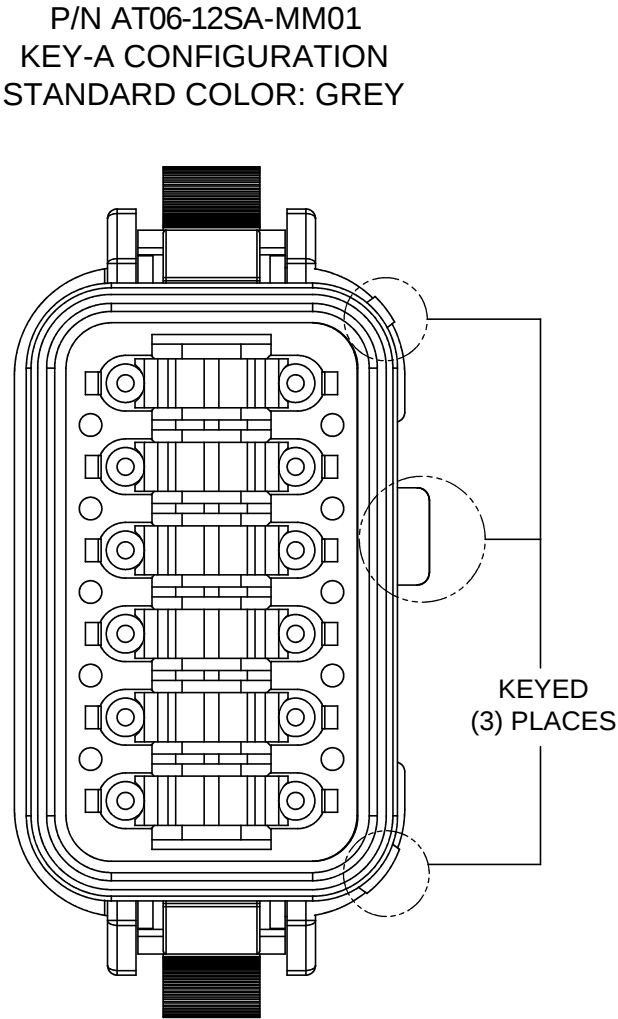
DWG NO.: AT06-12SX-MMXXX

REV: A3

SH: 1

OF: 2

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



| KEY-A CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| * GREY              | AT06-12SA-MM01  |
| BLACK               | AT06-12SA-MMBLK |
| GREEN               | AT06-12SA-MMGRN |
| BROWN               | AT06-12SA-MMBRN |

| KEY-B CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT06-12SB-MMGRY |
| * BLACK             | AT06-12SB-MM01  |
| GREEN               | AT06-12SB-MMGRN |
| BROWN               | AT06-12SB-MMBRN |

| KEY-C CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT06-12SC-MMGRY |
| BLACK               | AT06-12SC-MMBLK |
| * GREEN             | AT06-12SC-MM01  |
| BROWN               | AT06-12SC-MMBRN |

| KEY-D CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT06-12SD-MMGRY |
| BLACK               | AT06-12SD-MMBLK |
| GREEN               | AT06-12SD-MMGRN |
| * BROWN             | AT06-12SD-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.

| 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, AT SERIES, END CAP,<br/>KEYED, REDUCED DIAMETER WIRE SEAL</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 C-                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                 |
|                                                                                                                                                                                  |             | DWG NO:<br>AT06-12SX-MMXXX                                                                                                                                                                                                                                           | REVISION<br>A3                                                                                                                                                                                                  |
|                                                                                                                                                                                  |             | SCALE:<br>NONE                                                                                                                                                                                                                                                       | SHEET 2 OF 2                                                                                                                                                                                                    |

TITLE: PLUG, 12 SOCKET, AT END CAP, KEYED, REDUCED DIA. WIRE SEAL  
DWG NO.: AT06-12SX-MMXXX  
REV: A3  
SH: 2  
OF: 2

# AT, ATV, AHD, ARB, ARC, DuraMate™ and PanelMate™ Series

## Size 16 Contact & Tooling Options

### Contacts - Machined

| Part Number       | Type   | Style    | Contact Size | Amp | Wire Range (AWG) | Wire Range (mm <sup>2</sup> ) | Insulation OD (mm) | Plating       | Reel Size | Packaging |
|-------------------|--------|----------|--------------|-----|------------------|-------------------------------|--------------------|---------------|-----------|-----------|
| AT60-215-16141    | Pin    | Machined | Size 16      | 13A | 14AWG            | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-215-1631     | Pin    | Machined | Size 16      | 13A | 14AWG            | -                             | -                  | Gold-Plated   | -         | -         |
| AT60-202-16NKIT   | Pin    | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-202-16141    | Pin    | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-202-1631     | Pin    | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT60-202-16141-22 | Pin    | Machined | Size 16      | 13A | 22-24AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-202-1631-22  | Pin    | Machined | Size 16      | 13A | 22-24AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-209-16141    | Socket | Machined | Size 16      | 13A | 14AWG            | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-209-1631     | Socket | Machined | Size 16      | 13A | 14AWG            | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-201-16NKIT   | Socket | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-201-16141    | Socket | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-201-1631     | Socket | Machined | Size 16      | 13A | 16-20AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-201-16141-22 | Socket | Machined | Size 16      | 13A | 22-24AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-201-1631-22  | Socket | Machined | Size 16      | 13A | 22-24AWG         | -                             | -                  | Gold-Plated   | -         | -         |
|                   |        |          |              |     |                  |                               |                    |               |           |           |

### Contacts - Stamped & Formed

|                 |        |     |         |     |          |                         |               |               |       |             |
|-----------------|--------|-----|---------|-----|----------|-------------------------|---------------|---------------|-------|-------------|
| AT60-14-0122    | Pin    | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Nickel-Plated | -     | -           |
| AT60-14-0122-LP | Pin    | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Nickel-Plated | -     | Loose Piece |
| AT60-14-0144    | Pin    | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Gold-Plated   | -     | -           |
| AT60-14-0144-LP | Pin    | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Gold-Plated   | -     | Loose Piece |
| AT60-16-0122    | Pin    | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Nickel-Plated | -     | -           |
| AT60-16-0122-LP | Pin    | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Nickel-Plated | -     | Loose Piece |
| AT60-16-0144    | Pin    | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Gold-Plated   | -     | -           |
| AT60-16-0144-LP | Pin    | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Gold-Plated   | -     | Loose Piece |
| AT60-16-0622    | Pin    | S&F | Size 16 | 13A | 16-20AWG | 1.0-0.5mm <sup>2</sup>  | 1.40 - 2.54mm | Nickel-Plated | -     | -           |
| AT60-16-0622-LP | Pin    | S&F | Size 16 | 13A | 16-20AWG | 1.0-0.5mm <sup>2</sup>  | 1.40 - 2.54mm | Nickel-Plated | -     | Loose Piece |
| AT60-16-0644    | Pin    | S&F | Size 16 | 13A | 16-20AWG | 1.0-0.5mm <sup>2</sup>  | 1.40 - 2.54mm | Gold-Plated   | -     | -           |
| AT60-16-0644-LP | Pin    | S&F | Size 16 | 13A | 16-20AWG | 1.0-0.5mm <sup>2</sup>  | 1.40 - 2.54mm | Gold-Plated   | -     | Loose Piece |
| AT60-16-0322    | Pin    | S&F | Size 16 | 13A | 20-22AWG | 0.5-0.35mm <sup>2</sup> | 1.31 - 1.50mm | Nickel-Plated | -     | -           |
| AT60-16-0344    | Pin    | S&F | Size 16 | 13A | 20-22AWG | 0.5-0.35mm <sup>2</sup> | 1.31 - 1.50mm | Gold-Plated   | -     | -           |
| AT60-16-0377    | Pin    | S&F | Size 16 | 13A | 20-22AWG | 0.5-0.35mm <sup>2</sup> | 1.31 - 1.50mm | Tin-Plated    | -     | -           |
| AT60-16-0822    | Pin    | S&F | Size 16 | 13A | 20-22AWG | 0.5-0.35mm <sup>2</sup> | 1.31 - 1.50mm | Nickel-Plated | 4,000 | -           |
| AT60-16-0844    | Pin    | S&F | Size 16 | 13A | 20-22AWG | 0.5-0.35mm <sup>2</sup> | 1.31 - 1.50mm | Gold-Plated   | 4,000 | -           |
| AT62-14-0122    | Socket | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Nickel-Plated | -     | -           |
| AT62-14-0122-LP | Socket | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Nickel-Plated | -     | Loose Piece |
| AT62-14-0144    | Socket | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Gold-Plated   | -     | -           |
| AT62-14-0144-LP | Socket | S&F | Size 16 | 13A | 14-18AWG | 2.0-0.75mm <sup>2</sup> | 2.40 - 3.81mm | Gold-Plated   | -     | Loose Piece |
| AT62-16-0122    | Socket | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Nickel-Plated | -     | -           |
| AT62-16-0122-LP | Socket | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Nickel-Plated | -     | Loose Piece |
| AT62-16-0144    | Socket | S&F | Size 16 | 13A | 16-18AWG | 1.5-0.75mm <sup>2</sup> | 1.91 - 3.55mm | Gold-Plated   | -     | -           |

# AT, ATV, AHD, ARB, ARC, DuraMate™ and PanelMate™ Series

## Size 16 Contact & Tooling Options, cont.

Contacts - Stamped & Formed, cont.

| Part Number     | Type   | Style | Contact Size | Amp | Wire Range (AWG) | Wire Range (mm <sup>2</sup> ) | Insulation OD (mm) | Plating       | Reel Size | Packaging   |
|-----------------|--------|-------|--------------|-----|------------------|-------------------------------|--------------------|---------------|-----------|-------------|
| AT62-16-0144-LP | Socket | S&F   | Size 16      | 13A | 16-18AWG         | 1.5-0.75mm <sup>2</sup>       | 1.91 - 3.55mm      | Gold-Plated   | -         | Loose Piece |
| AT62-16-0622    | Socket | S&F   | Size 16      | 13A | 16-20AWG         | 1.0-0.5mm <sup>2</sup>        | 1.40 - 2.54mm      | Nickel-Plated | -         | -           |
| AT62-16-0622-LP | Socket | S&F   | Size 16      | 13A | 16-20AWG         | 1.0-0.5mm <sup>2</sup>        | 1.40 - 2.54mm      | Nickel-Plated | -         | Loose Piece |
| AT62-16-0644    | Socket | S&F   | Size 16      | 13A | 18-20AWG         | 1.0-0.5mm <sup>2</sup>        | 1.40 - 2.54mm      | Gold-Plated   | -         | -           |
| AT62-16-0644-LP | Socket | S&F   | Size 16      | 13A | 18-20AWG         | 1.0-0.5mm <sup>2</sup>        | 1.40 - 2.54mm      | Gold-Plated   | -         | Loose Piece |
| AT62-16-0822    | Socket | S&F   | Size 16      | 13A | 20-22AWG         | 0.5-0.35mm <sup>2</sup>       | 1.31 - 1.50mm      | Nickel-Plated | 4,000     | -           |
| AT62-16-0844    | Socket | S&F   | Size 16      | 13A | 20-22AWG         | 0.5-0.35mm <sup>2</sup>       | 1.31 - 1.50mm      | Gold-Plated   | 4,000     | -           |
|                 |        |       |              |     |                  |                               |                    |               |           |             |

Tooling

| Part Number      | Tool Name                                      | Style     | Contact Size  | Wire Range (AWG) | Material      | Color   |
|------------------|------------------------------------------------|-----------|---------------|------------------|---------------|---------|
| AUTK-16          | Hand Crimp Tool                                | Machined  | Size 16       | -                | -             | -       |
| AUTK-100         | Universal Heavy Duty Contact Crimping Tool Kit | Machined  | Size 12/16/20 | 12-26AWG         | -             | -       |
| CA-5D12          | Universal Hand Crimp Tool                      | Machined  | Size 12/16/20 | 12-26AWG         | -             | -       |
| CA-5E12          | Pneumatic Crimp Tool                           | Machined  | Size 12/16/20 | 12-26AWG         | -             | -       |
| MF3-3950-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 18-20AWG         | -             | -       |
| MF3-3953-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 16-18AWG         | -             | -       |
| MF3-3975-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 14-16AWG         | -             | -       |
| MF3-3990         | Crimp Die                                      | S&F       | Size 16       | 20-22AWG         | -             | -       |
| ATT-16-00        | Hand Crimp Tool                                | S&F       | Size 16       | 14-16AWG         | -             | -       |
| ATT-16-01        | Hand Crimp Tool                                | S&F       | Size 16       | 18-20AWG         | -             | -       |
| ATT-1612-03      | Hand Crimp Tool                                | S&F       | Size 12/16    | 20-22AWG         | -             | -       |
| ATRT-100         | Contact and Wedgelock Extraction Tool          | Universal | Universal     | -                | Steel         | Silver  |
| AT11-310-1605    | Contact Extraction Tool                        | Universal | Size 16       | -                | Plastic       | Lt Blue |
| A114017          | Seal Plug                                      | Universal | Size 12/16    | -                | Thermoplastic | White   |
| A114017-SR       | Seal Plug                                      | Universal | Size 16       | -                | Thermoplastic | Black   |
| AT13-217-1605    | Locking Seal Plug                              | Universal | Size 16       | -                | Thermoplastic | Grey    |
| AT13-217-1605-SR | Locking Seal Plug                              | Universal | Size 16       | -                | Thermoplastic | Red     |
|                  |                                                |           |               |                  |               |         |

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Authorized Distributor

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