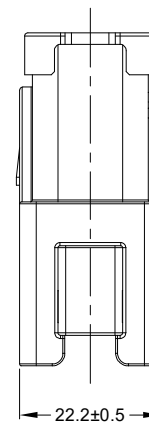
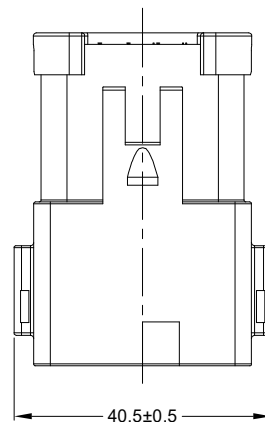
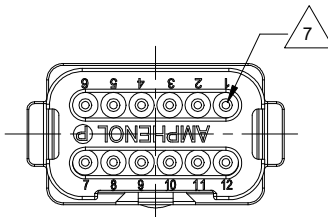
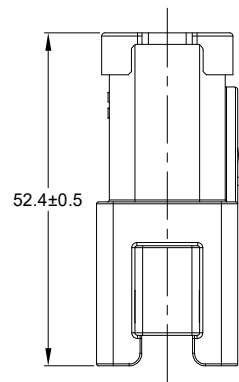
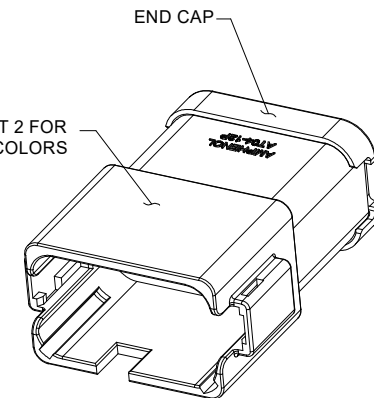


| REVISIONS |        |                            |         |       |       |
|-----------|--------|----------------------------|---------|-------|-------|
| REV       | ECO    | DESCRIPTION                | DATE    | BY    | APPR  |
| A3        | -      | RELEASE NEW DRAWING FORMAT | 03JAN14 | JARRY | -     |
| A4        | C1403S | UPDATE THE APPEARANCE      | 11NOV21 | LOUIE | TOMMY |



1 REFER TO SHEET 2 FOR AVAILABLE CONNECTOR COLORS



NOTES: UNLESS OTHERWISE SPECIFIED

1 SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.

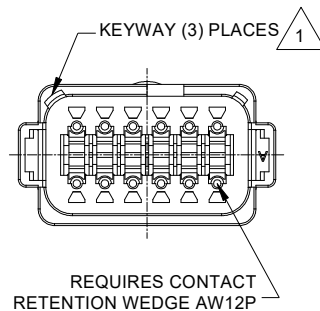
2. MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER

3. MODIFICATIONS: END CAP

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: IP69K&IP68 ( 1M OF WATER FOR A PERIOD OF 24 HOURS, 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 )

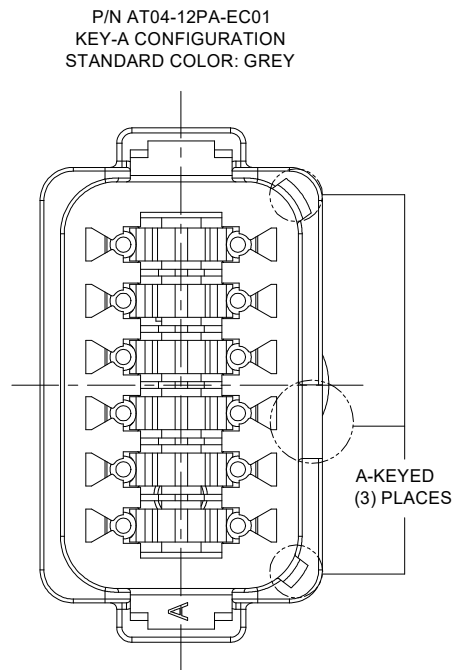
6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.



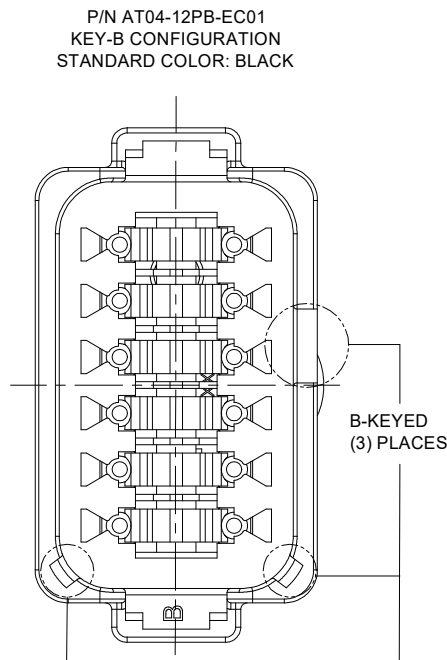
7 CONTACT SIZE AND REAR SEAL WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 16           | 2.24 mm (.088 in) | 3.68 mm (.145 in) | 14 - 20 AWG        |

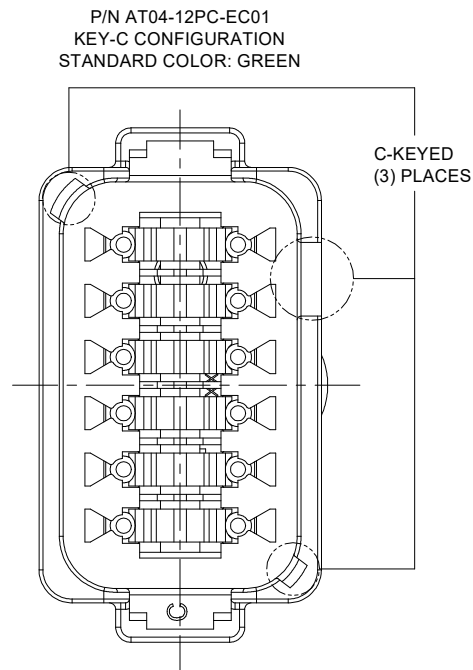
|                                                                                                           |  |                                                                                                                                                                                                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 2                                                                                               |  | REF. DT04-12PA-BE02 , DT04-12PB-BE02 , DT04-12PC-BE02 , DT04-12PD-BE02 , DT04-12PA-BE03                                                                                                                                                                              |  |
| PART NUMBER                                                                                               |  | DESCRIPTION                                                                                                                                                                                                                                                          |  |
| QUANTITY                                                                                                  |  | ITEM                                                                                                                                                                                                                                                                 |  |
| MATERIALS LIST                                                                                            |  |                                                                                                                                                                                                                                                                      |  |
| UNLESS OTHERWISE SPECIFIED                                                                                |  | SIGNATURES                                                                                                                                                                                                                                                           |  |
| 1) All dimensions are in metric(mm).                                                                      |  | DATE                                                                                                                                                                                                                                                                 |  |
| 2) Tolerances are as follows:                                                                             |  | DRAWN: LOUIE                                                                                                                                                                                                                                                         |  |
| 1 PL DEC ±0.30                                                                                            |  | 11NOV21                                                                                                                                                                                                                                                              |  |
| 2 PL DEC ±0.15                                                                                            |  | CHECKED: ORION                                                                                                                                                                                                                                                       |  |
| 3 PL DEC ±0.08                                                                                            |  | 12NOV21                                                                                                                                                                                                                                                              |  |
| 3) Note reference =  |  | ENGINEER:                                                                                                                                                                                                                                                            |  |
| MATERIAL SPECIFICATIONS:                                                                                  |  | APPROVAL: TOMMY                                                                                                                                                                                                                                                      |  |
| WEIGHT:20.9g                                                                                              |  | 15NOV21                                                                                                                                                                                                                                                              |  |
| PROCESS SPECIFICATIONS:                                                                                   |  | CUSTOMER:                                                                                                                                                                                                                                                            |  |
| NEXT ASSY:                                                                                                |  | 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. |  |
| SIZE                                                                                                      |  | TYPE                                                                                                                                                                                                                                                                 |  |
| B                                                                                                         |  | C-                                                                                                                                                                                                                                                                   |  |
| SCALE:                                                                                                    |  | NONE                                                                                                                                                                                                                                                                 |  |
| DWG NO:                                                                                                   |  | REVISION                                                                                                                                                                                                                                                             |  |
| AT04-12PX-ECXXX                                                                                           |  | A4                                                                                                                                                                                                                                                                   |  |
| SHEET                                                                                                     |  | OF                                                                                                                                                                                                                                                                   |  |
| 1                                                                                                         |  | 2                                                                                                                                                                                                                                                                    |  |



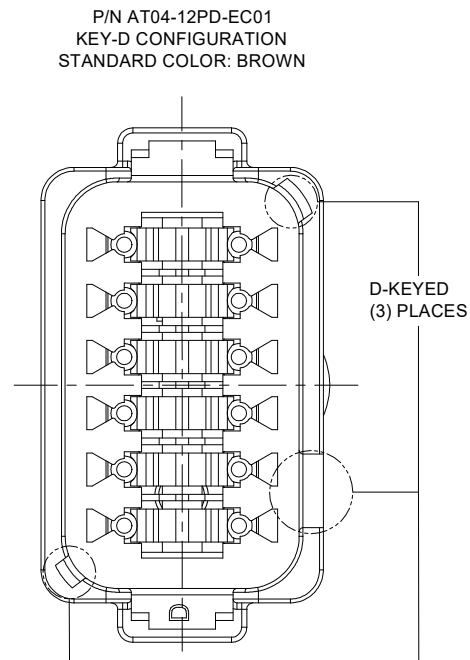
| KEY-A CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| ★ GREY              | AT04-12PA-EC01  |
| BLACK               | AT04-12PA-ECBLK |
| GREEN               | AT04-12PA-ECGRN |
| BROWN               | AT04-12PA-ECBRN |



| KEY-B CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PB-ECGRY |
| ★ BLACK             | AT04-12PB-EC01  |
| GREEN               | AT04-12PB-ECGRN |
| BROWN               | AT04-12PB-ECBRN |



| KEY-C CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PC-ECGRY |
| BLACK               | AT04-12PC-ECBLK |
| ★ GREEN             | AT04-12PC-EC01  |
| BROWN               | AT04-12PC-ECBRN |



| KEY-D CONFIGURATION |                 |
|---------------------|-----------------|
| COLOR               | PART NUMBER     |
| GREY                | AT04-12PD-ECGRY |
| BLACK               | AT04-12PD-ECBLK |
| GREEN               | AT04-12PD-ECGRN |
| ★ BROWN             | AT04-12PD-EC01  |

| REVISIONS |        |                            |         |       |       |
|-----------|--------|----------------------------|---------|-------|-------|
| REV       | ECO    | DESCRIPTION                | DATE    | BY    | APPR  |
| A3        | -      | RELEASE NEW DRAWING FORMAT | 03JAN14 | JARRY | -     |
| A4        | C1403S | UPDATE THE APPEARANCE      | 11NOV21 | LOUIE | TOMMY |

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.

|                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                                                                                                                                                                               |  | PART NUMBER                                                                                                                                                                                                                                                          |  | DESCRIPTION |  | ITEM                                                                                                                                                                                                                                         |  |
| QUANTITY                                                                                                                                                                                                                                                                      |  | MATERIALS LIST                                                                                                                                                                                                                                                       |  |             |  |                                                                                                                                                                                                                                              |  |
| <b>UNLESS OTHERWISE SPECIFIED</b><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 =  |  | <b>SIGNATURES</b>                                                                                                                                                                                                                                                    |  | <b>DATE</b> |  | <div>Amphenol</div> <div>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div>                                                                                                                    |  |
|                                                                                                                                                                                                                                                                               |  | DRAWN: LOUIE                                                                                                                                                                                                                                                         |  | 11NOV21     |  |                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                                               |  | CHECKED: ORION                                                                                                                                                                                                                                                       |  | 12NOV21     |  |                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                                               |  | ENGINEER:                                                                                                                                                                                                                                                            |  |             |  |                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                                               |  | APPROVAL: TOMMY                                                                                                                                                                                                                                                      |  | 15NOV21     |  |                                                                                                                                                                                                                                              |  |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                                      |  | CUSTOMER:                                                                                                                                                                                                                                                            |  |             |  | <div>RECEPTACLE, 12 PIN, AT SERIES,<br/>KEYED, END CAP</div> <div><div>SIZE</div><div>B</div><div><div>TYPE</div><div>C-</div></div><div><div>DWG NO:</div><div>AT04-12PX-ECXXX</div></div><div><div>REVISION</div><div>A4</div></div></div> |  |
| WEIGHT:20.9g                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                                                              |  |
| PROCESS SPECIFICATIONS:                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                                                              |  |
| NEXT ASSY:                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                      |  |             |  |                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                                               |  | 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 |  | SHEET 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     |
|                  |                                                |           |               |                  |               |         |

# Mouser Electronics

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