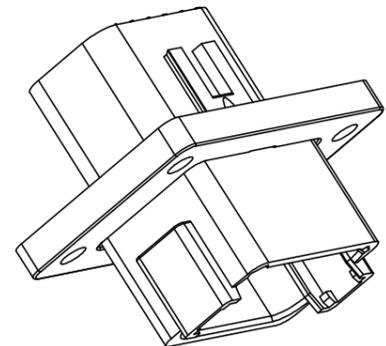
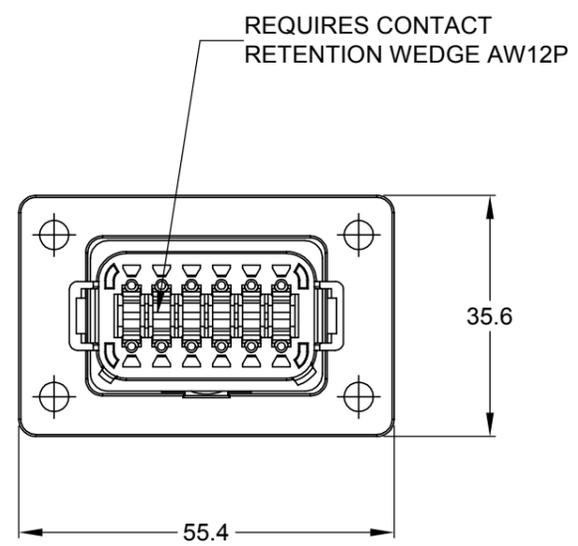
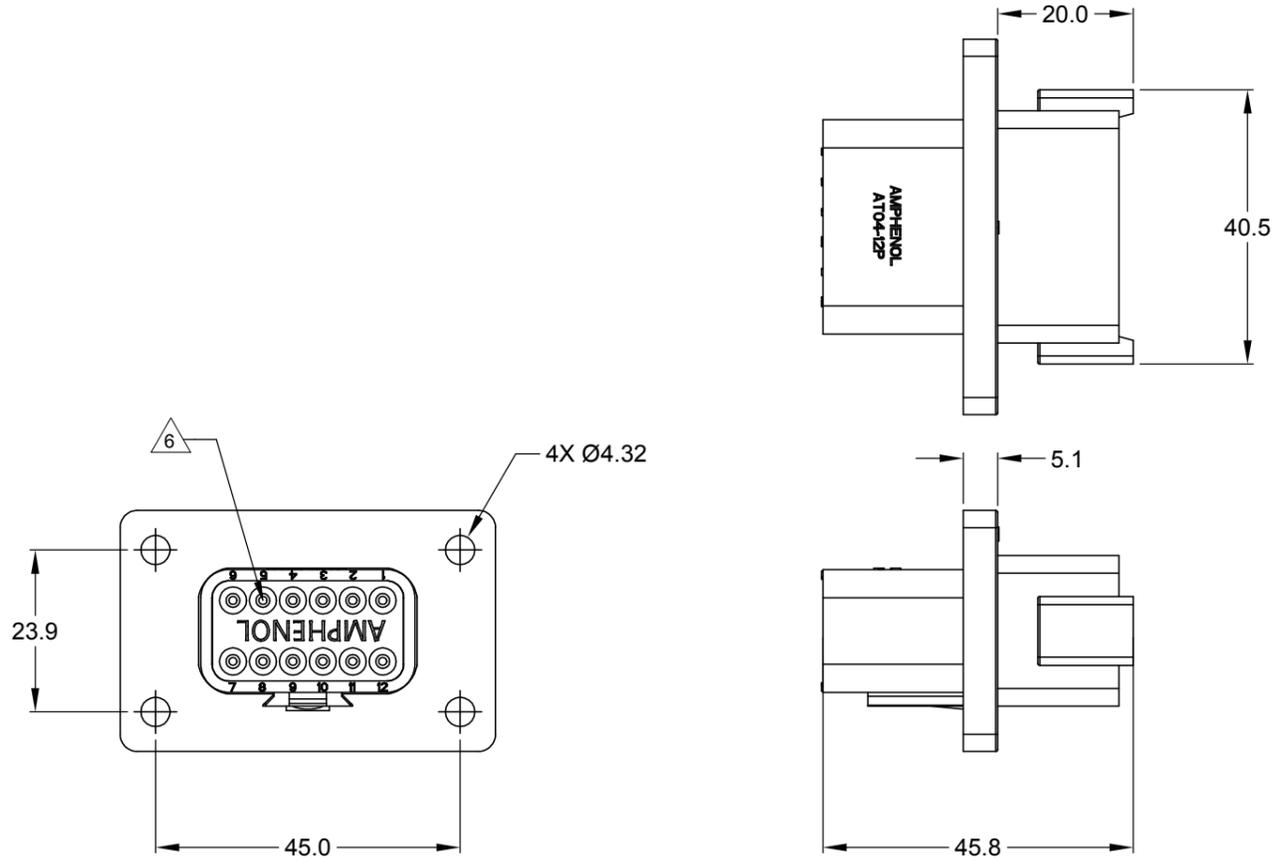


| REVISIONS |     |                |           |        |       |
|-----------|-----|----------------|-----------|--------|-------|
| REV       | ECO | DESCRIPTION    | DATE      | BY     | APPR  |
| A1        | --  | RELEASE NUMBER | 30/NOV/18 | ROOKIE | TOMMY |
| A2        | --  | REVISE NOTE 3  | 11/SEP/20 | KEVIN  | TOMMY |



NOTES: UNLESS OTHERWISE SPECIFIED

- COLOR: BLACK
- MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER
- MODIFICATIONS: FLANGE
- SPECIFICATIONS:
  - CURRENT RATING: 13 AMPS
  - OPERATING TEMPERATURE: -55°C TO +125°C.
  - DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
  - INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
  - MOISTURE RESISTANCE: IP67 ( MATED CONDITION )
  - MATING CYCLE DURABILITY: 100 CYCLES
  - RoHS COMPLIANT
- MATING PART: AT06-12SA\* PLUG.  
(\* = MODIFICATIONS AND COLORS )
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

**7.** CONTACT SIZE AND REAR SEAL WIRE RANGE:

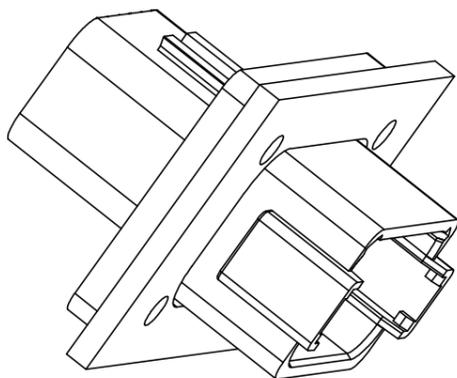
| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 16           | 2.24 mm (.088 in) | 3.68 mm (.145 in) | 14 - 20 AWG        |

|                                      |  |  |  |                        |
|--------------------------------------|--|--|--|------------------------|
| AT04-12PA-LE14                       |  | DESCRIPTION  |  | ITEM                   |
| PART NUMBER                          |  |  |  |                        |
| QUANTITY                             |  |  |  |                        |
| <b>MATERIALS LIST</b>                |  |  |  |                        |
| UNLESS OTHERWISE SPECIFIED           |  | SIGNATURES   |  | DATE                   |
| 1) All dimensions are in metric(mm). |  | DRAWN: KEVIN   |  | 11/SEP/20              |
| 2) Tolerances are as follows:        |  | CHECKED: ORION   |  | 11/SEP/20              |
| 1 PL DEC ±0.30                       |  | ENGINEER:  |  |                        |
| 2 PL DEC ±0.15                       |  | APPROVAL: TOMMY  |  | 11/SEP/20              |
| 3 PL DEC ±0.08                       |  | CUSTOMER:  |  |                        |
| 3) Note reference = $\triangle$      |  |  |  |                        |
| MATERIAL SPECIFICATIONS:             |  |  |  |                        |
| 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:                           |  | SCALE: NONE  |  |                        |
|                                      |  | SIZE B C-  |  | DWG NO: AT04-12PA-LE14 |
|                                      |  |  |  | REVISION A2            |
|                                      |  | SHEET 1 OF 2   |  |                        |

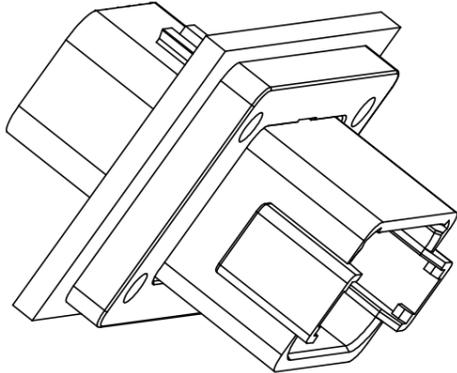
TITLE: 12PA RECEPTACLE, FLANGE MOUNT, BLACK  
 DWG NO.: AT04-12PA-LE14  
 REV: A2  
 SH: 1  
 OF: 2

| REVISIONS |     |                |           |        |       |
|-----------|-----|----------------|-----------|--------|-------|
| REV       | ECO | DESCRIPTION    | DATE      | BY     | APPR  |
| A1        | --  | RELEASE NUMBER | 30/NOV/18 | ROOKIE | TOMMY |
| A2        | --  | REVISE NOTE 3  | 11/SEP/20 | KEVIN  | TOMMY |

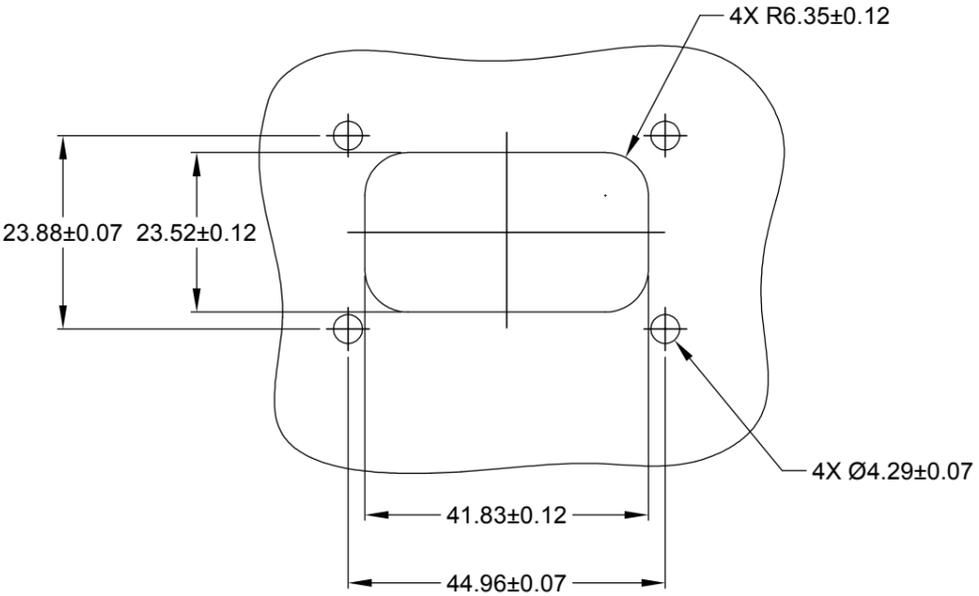
FOR REFERENCE ONLY



FRONT MOUNT



REAR MOUNT



RECOMMENDED CUTOUT  
FRONT AND REAR MOUNT

TITLE: 12PA RECEPTACLE, FLANGE MOUNT, BLACK  
 DWG NO: AT04-12PA-LE14  
 REV: A2  
 SH: 2  
 OF: 2

|   |  |   |  |  |
|---|--|---|--|--|
| AT04-12PA-LE14  |  | DESCRIPTION   |  | ITEM   |
| PART NUMBER   |  |   |  |  |
| <b>QUANTITY MATERIALS LIST</b>  |  |   |  |  |
| UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>Fractions ±1/64<br>Angles ±1°<br>3) Note reference = |  | <b>SIGNATURES</b><br>DRAWN: KEVIN<br>CHECKED: ORION<br>ENGINEER:<br>APPROVAL: TOMMY | <b>DATE</b><br>11/SEP/20<br>11/SEP/20<br>11/SEP/20 | <br>Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036<br>12PA RECEPTACLE, FLANGE MOUNT, BLACK |
| MATERIAL SPECIFICATIONS:  | CUSTOMER:  |   | SIZE: B C-   |  |
| 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. |   | DWG NO: AT04-12PA-LE14                             |  |
| NEXT ASSY:  | SCALE: NONE  |   | REVISION: A2                                       |  |
|   |  |   | SHEET 2 OF 2                                       |  |

# AT Series™ - Contact Size 16 Options

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

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

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

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

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

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