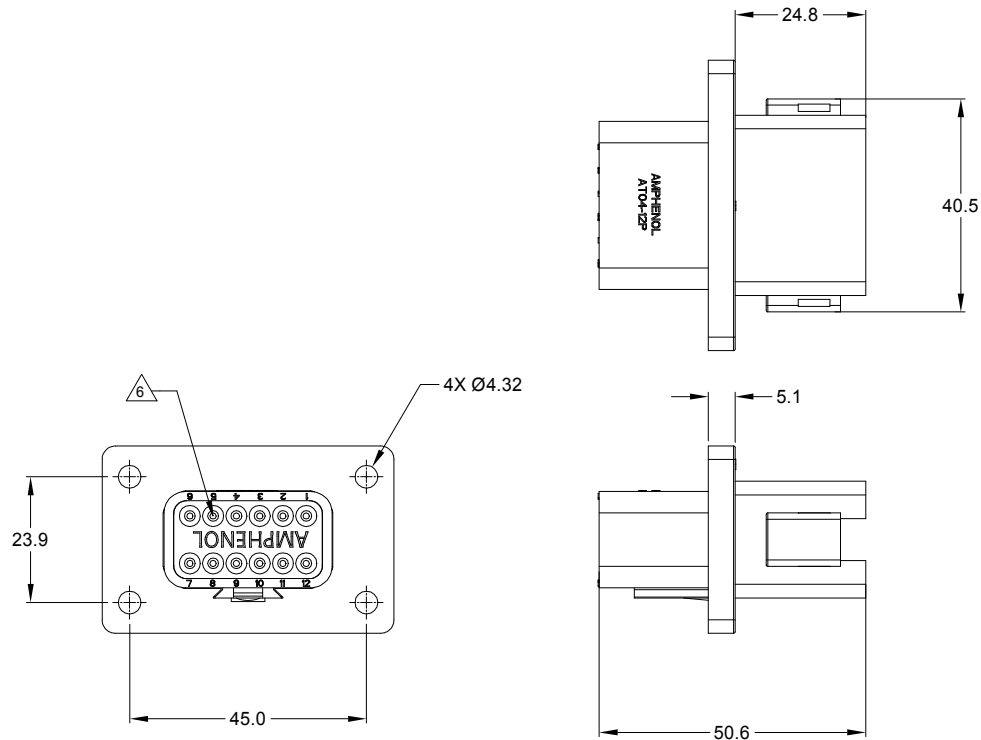
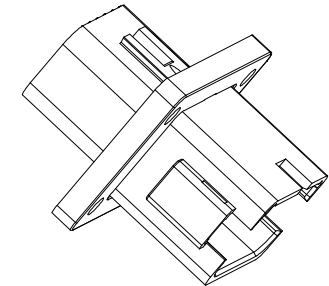
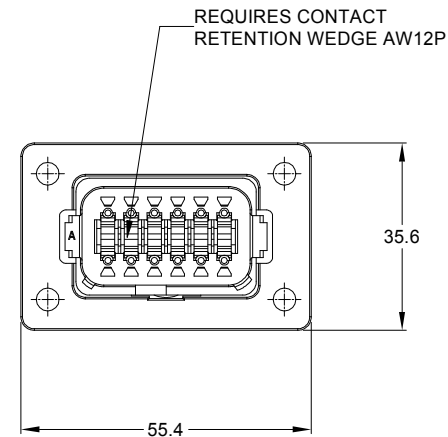




| REVISIONS |     |                |           |       |       |
|-----------|-----|----------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION    | DATE      | BY    | APPR  |
| A1        | -   | RELEASE NUMBER | 30/NOV/18 | BROOK | TOMMY |



NOTES: UNLESS OTHERWISE SPECIFIED

1. COLOR: BLACK
2. MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER
3. MODIFICATIONS: FLANGE
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

7. CONTACT SIZE AND REAR SEAL WIRE RANGE:

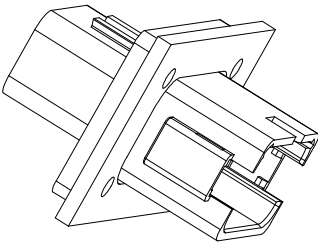
| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 16           | 2.24 mm (.088 in) | 3.68 mm (.145 in) | 14 - 20 AWG        |

5. MATING PART: AT06-12SA\* PLUG.  
(\* = MODIFICATIONS AND COLORS )
6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

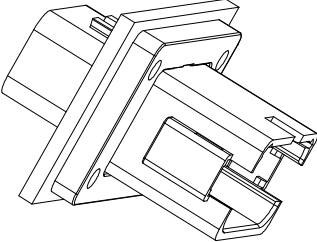
|                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                      |  |                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|
| AT04-12PA-BL08                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                      |  |                                                                                                             |
| 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><br>DRAWN: BROOK<br>CHECKED: ORION<br>ENGINEER:<br>APPROVAL: TOMMY<br>CUSTOMER:<br>DATE: 30/NOV/18                                                                                                                                                  |  | <b>Amphenol</b><br>Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036 |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                |  | 12PA RECEPTACLE FLANGE MOUNT, ENHANCE KEY, BLACK                                                                                                                                                                                                                     |  |                                                                                                             |
| 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                                                                                                                                                                                                                                                          |  | SHEET 1 OF 2                                                                                                |

| REVISIONS |     |                |           |       |       |
|-----------|-----|----------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION    | DATE      | BY    | APPR  |
| A1        | -   | RELEASE NUMBER | 30/NOV/18 | BROOK | TOMMY |

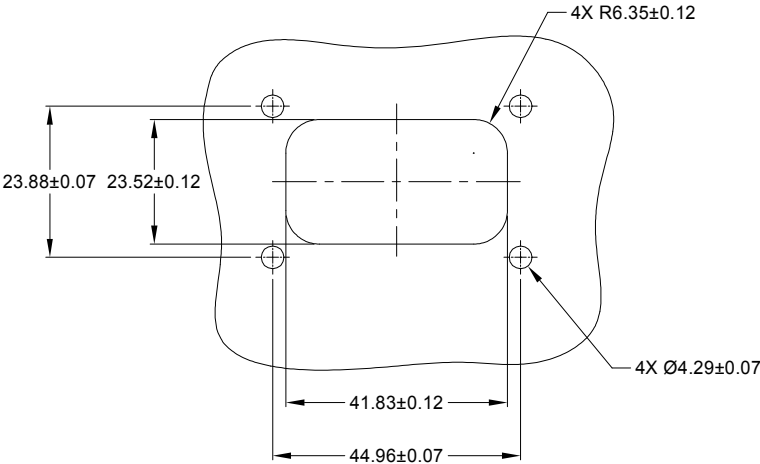
FOR REFERENCE ONLY



FRONT MOUNT



REAR MOUNT



RECOMMENDED CUTOUT  
FRONT AND REAR MOUNT

|                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|
| AT04-12PA-BL08                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                           |
| 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><br><br>DRAWN: <b>BROOK</b><br>CHECKED: <b>ORION</b><br>ENGINEER:<br>APPROVAL: <b>TOMMY</b><br>CUSTOMER:<br><br>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. |  | <div>Amphenol</div> <div>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</div> |
| FRACTIONS ±1/64<br>Angles ±1°                                                                                                                                                                                                                                                 |  | DATE<br><b>30/NOV/18</b><br><b>30/NOV/18</b><br><br><b>30/NOV/18</b>                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                           |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                                      |  | PROCESS SPECIFICATIONS:                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                           |
| NEXT ASSY:                                                                                                                                                                                                                                                                    |  | SIZE<br><b>B C-</b><br><br>SCALE<br><b>NONE</b>                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                           |
|                                                                                                                                                                                                                                                                               |  | DWG NO:<br><b>AT04-12PA-BL08</b>                                                                                                                                                                                                                                                                                                                                                                      |  | REVISION<br><b>A1</b>                                                                                                     |
|                                                                                                                                                                                                                                                                               |  | SHEET <b>2</b> OF <b>2</b>                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                           |

## AT Series™ - Contact Size 16 Options

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

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

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

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

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

**Amphenol Sine Systems**  
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 09/2021