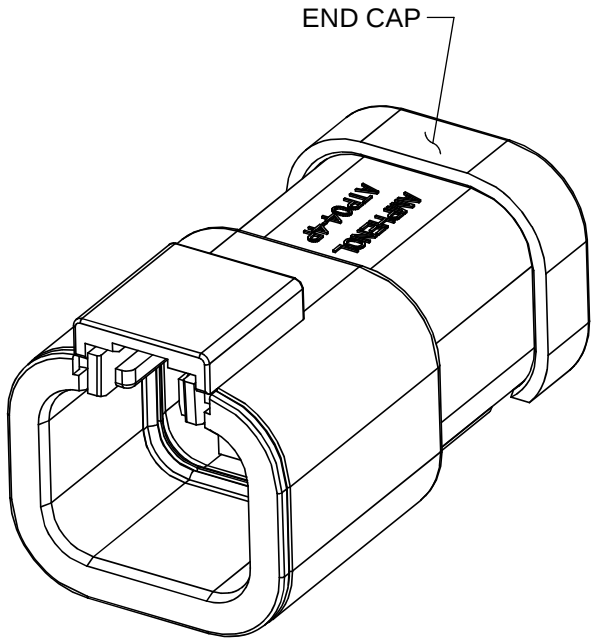
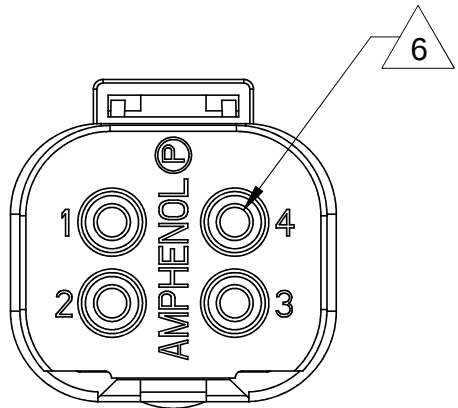
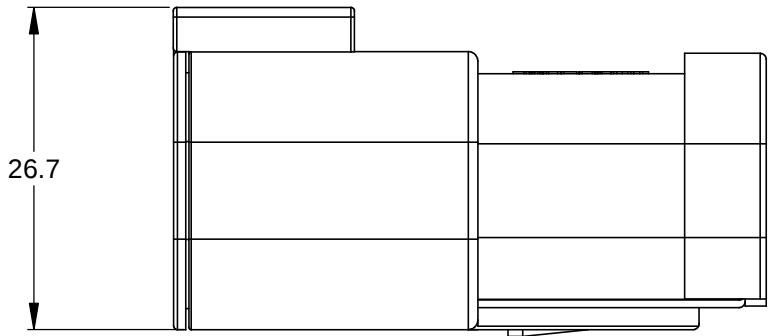
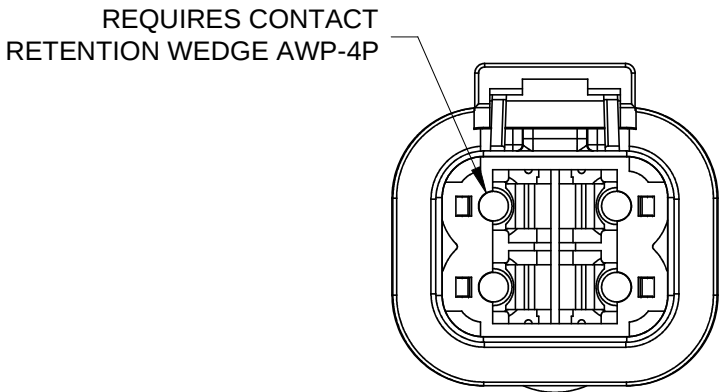
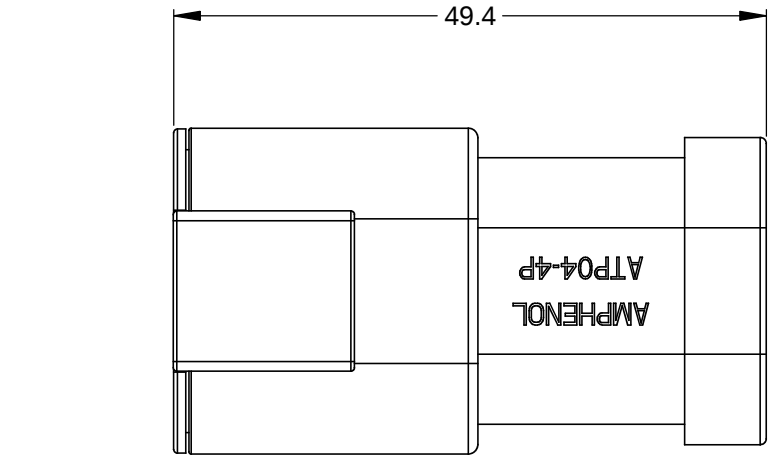


| REVISIONS |     |                        |           |       |      |
|-----------|-----|------------------------|-----------|-------|------|
| REV       | ECO | DESCRIPTION            | DATE      | BY    | APPR |
| A3        | -   | RELEASE NEW DWG FORMAT | 18/OCT/13 | JARRY | -    |



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
HOUSING: THERMOPLASTIC  
SEAL: SILICONE RUBBER
- MODIFICATIONS: END CAP
- SPECIFICATIONS:
  - 3.1 CURRENT RATING: 25 AMPS
  - 3.2 OPERATING TEMPERATURE: -55°C TO +125°C
  - 3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
  - 3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
  - 3.5 MOISTURE RESISTANCE: IP67 ( MATED CONDITION )
  - 3.6 MATING CYCLE DURABILITY: 100 CYCLES
  - 3.7 RoHS COMPLIANT
- MATING PART: ATP06-4S\* PLUG.  
( \* = MODIFICATIONS AND COLORS )

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6 CONTACT SIZE AND REAR SEAL WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D.   | MAX. INSUL O.D.   | TYPICAL WIRE RANGE |
|--------------|-------------------|-------------------|--------------------|
| 12           | 3.40 mm (.134 in) | 4.95 mm (.195 in) | 10 - 14 AWG        |

| PART NUMBER CHART |                 |
|-------------------|-----------------|
| COLOR             | PART NUMBER     |
| GREY              | ATP04-4P-EC01   |
| BLACK             | ATP04-4P-EC01BK |

STANDARD MOLDED COLOR IS GREY. ADDITIONAL COLOR ( BLACK ) IS AVAILABLE VIA SPECIAL ORDER.

|                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                      |      |                                                                                                                                                                      |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                                                                                                                                                                                                                                         |  | SEE PART NUMBER CHART                                                                                                                                                                                                                                                |      |                                                                                                                                                                      |          |
|                                                                                                                                                                                                                                         |  | PART NUMBER                                                                                                                                                                                                                                                          |      | DESCRIPTION                                                                                                                                                          |          |
|                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                      |      | ITEM                                                                                                                                                                 |          |
| QUANTITY                                                                                                                                                                                                                                |  | MATERIALS LIST                                                                                                                                                                                                                                                       |      |                                                                                                                                                                      |          |
| <div>UNLESS OTHERWISE SPECIFIED</div> <div>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</div> <div>3) Note reference = <div><div>x</div></div></div> |  | SIGNATURES                                                                                                                                                                                                                                                           |      | DATE                                                                                                                                                                 |          |
|                                                                                                                                                                                                                                         |  | DRAWN: JARRY                                                                                                                                                                                                                                                         |      | 18/OCT/13                                                                                                                                                            |          |
|                                                                                                                                                                                                                                         |  | CHECKED:                                                                                                                                                                                                                                                             |      |                                                                                                                                                                      |          |
|                                                                                                                                                                                                                                         |  | ENGINEER:                                                                                                                                                                                                                                                            |      |                                                                                                                                                                      |          |
|                                                                                                                                                                                                                                         |  | APPROVAL:                                                                                                                                                                                                                                                            |      |                                                                                                                                                                      |          |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                |  | CUSTOMER:                                                                                                                                                                                                                                                            |      | <div>Amphenol</div> <div>Sine Systems - <a href="http://www.amphenol-sine.com">www.amphenol-sine.com</a><br/>44724 Morley Drive<br/>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. |      | RECEPTACLE, 4 PIN,END CAP, ATP SERIES                                                                                                                                |          |
| NEXT ASS'Y:                                                                                                                                                                                                                             |  | SIZE                                                                                                                                                                                                                                                                 | TYPE | DWG NO:                                                                                                                                                              | REVISION |
|                                                                                                                                                                                                                                         |  | B                                                                                                                                                                                                                                                                    | C-   | ATP04-4P-EC01XX                                                                                                                                                      | A3       |
|                                                                                                                                                                                                                                         |  | SCALE: NONE                                                                                                                                                                                                                                                          |      | SHEET 1 OF 1                                                                                                                                                         |          |

# AHD, ARB, ATP, ATHD, DuraMate™ and PanelMate™ Series

## Size 12 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 |
|--------------------|--------|----------|--------------|-----|------------------|-------------------------------|--------------------|---------------|-----------|-----------|
| AT60-204-12141-10  | Pin    | Machined | Size 12      | 25A | 10-12AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-204-12141     | Pin    | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-220-1231      | Pin    | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT60-204-12NKIT    | Pin    | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT60-220-1231-1618 | Pin    | Machined | Size 12      | 25A | 16-18AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT60-220-1231-1820 | Pin    | Machined | Size 12      | 25A | 18-20AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-203-12141-10  | Socket | Machined | Size 12      | 25A | 10-12AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-203-12141     | Socket | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-203-12NKIT    | Socket | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Nickel-Plated | -         | -         |
| AT62-210-1231      | Socket | Machined | Size 12      | 25A | 12-14AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-210-1231-1618 | Socket | Machined | Size 12      | 25A | 16-18AWG         | -                             | -                  | Gold-Plated   | -         | -         |
| AT62-210-1231-1820 | Socket | Machined | Size 12      | 25A | 18-20AWG         | -                             | -                  | Gold-Plated   | -         | -         |
|                    |        |          |              |     |                  |                               |                    |               |           |           |

### Contacts - Stamped & Formed

|                 |        |     |         |     |          |                        |               |               |   |             |
|-----------------|--------|-----|---------|-----|----------|------------------------|---------------|---------------|---|-------------|
| AT60-12-0222    | Pin    | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Nickel-Plated | - | -           |
| AT60-12-0222-LP | Pin    | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Nickel-Plated | - | Loose Piece |
| AT60-12-0244    | Pin    | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Gold-Plated   | - | -           |
| AT60-12-0244-LP | Pin    | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Gold-Plated   | - | Loose Piece |
| AT60-12-0144    | Pin    | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Gold-Plated   | - | -           |
| AT60-12-0144-LP | Pin    | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Gold-Plated   | - | Loose Piece |
| AT60-12-0166    | Pin    | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Nickel-Plated | - | -           |
| AT60-12-0166-LP | Pin    | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Nickel-Plated | - | Loose Piece |
| AT62-12-0222    | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Nickel-Plated | - | -           |
| AT62-12-0222-LP | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Nickel-Plated | - | Loose Piece |
| AT62-12-0244    | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Gold-Plated   | - | -           |
| AT62-12-0244-LP | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0mm <sup>2</sup> | 3.56 - 5.18mm | Gold-Plated   | - | Loose Piece |
| AT62-12-0144    | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Gold-Plated   | - | -           |
| AT62-12-0144-LP | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Gold-Plated   | - | Loose Piece |
| AT62-12-0166    | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Nickel-Plated | - | -           |
| AT62-12-0166-LP | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0mm <sup>2</sup> | 2.87 - 4.47mm | Nickel-Plated | - | Loose Piece |
|                 |        |     |         |     |          |                        |               |               |   |             |

### Tooling

| Part Number | Tool Name                                      | Style    | Contact Size  | Wire Range (AWG) | Material | Color |
|-------------|------------------------------------------------|----------|---------------|------------------|----------|-------|
| MFX-3966    | Contact Locator for Hand Crimp Tool M300-25A   | Machined | Size 12       | 10AWG            | -        | -     |
| AUTK-12     | Hand Crimp Tool                                | Machined | Size 12       | 10-18AWG         | -        | -     |
| M300-25A    | Hand Crimp Tool w MFX-3966 Locator             | Machined | Size 12       | 10-18AWG         | -        | -     |
| CA-5E12     | Pneumatic Crimp Tool                           | Machined | Size 12/16/20 | 12-26AWG         | -        | -     |
| CA-5D12     | Universal Hand Crimp Tool                      | Machined | Size 12/16/20 | 12-26AWG         | -        | -     |
| AUTK-100    | Universal Heavy Duty Contact Crimping Tool Kit | Machined | Size 12/16/20 | 12-26AWG         | -        | -     |

AHD, ARB, ATP, ATHD, DuraMate™ and PanelMate™ Series  
Size 12 Contact & Tooling Options, cont.

Tooling, cont.

| Part Number     | Tool Name                             | Style     | Contact Size | Wire Range (AWG) | Material      | Color  |
|-----------------|---------------------------------------|-----------|--------------|------------------|---------------|--------|
| MTX-3973-G or K | Crimp Die Press Applicator            | S&F       | Size 12      | 12AWG            | -             | -      |
| MTX-3985-G or K | Crimp Die Press Applicator            | S&F       | Size 12      | 10-12AWG         | -             | -      |
| ATT-12-00       | Hand Crimp Tool                       | S&F       | Size 12      | 12-14AWG         | -             | -      |
| ATT-12-01       | Hand Crimp Tool                       | S&F       | Size 12      | 10AWG            | -             | -      |
| ATRT-100        | Contact and Wedgelock Extraction Tool | Universal | Universal    | -                | Steel         | Silver |
| AT11-337-1205   | Contact Extraction Tool               | Universal | Size 12      | -                | Plastic       | Orange |
| A114017         | Seal Plug                             | Universal | Size 12/16   | -                | Thermoplastic | White  |
|                 |                                       |           |              |                  |               |        |