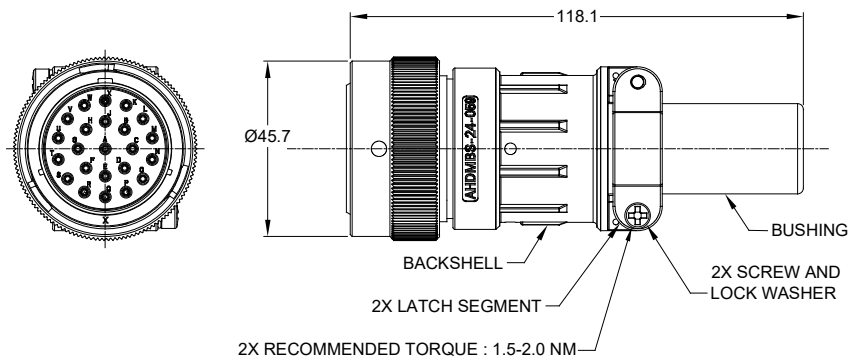
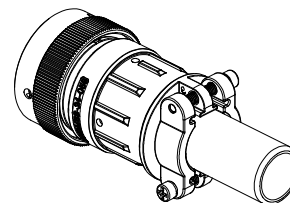


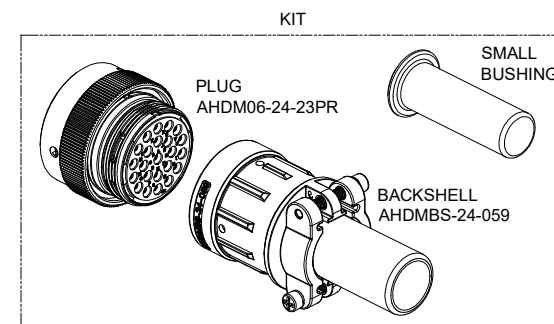
| REVISIONS |     |             |           |         |      |
|-----------|-----|-------------|-----------|---------|------|
| REV       | ECO | DESCRIPTION | DATE      | BY      | APPR |
| A1        | --  | RELEASED    | 16MAR2020 | J. HEAD | DH   |

NOTES: UNLESS OTHERWISE SPECIFIED

1. PLUG MATERIAL:  
SHELL: ZINC ALLOY, NICKEL PLATED  
COUPLING RING: ALUMINUM ALLOY, NICKEL PLATED  
INSERT AND RETAINING RING: THERMOPLASTIC  
SEAL: SILICONE RUBBER
2. BACKSHELL MATERIAL:  
SHELL: ALUMINIUM ALLOY, NICKEL PLATED;  
LATCH SEGMENT: ALUMINIUM ALLOY, NICKEL PLATED;  
SCREW AND LOCK WASHER: STAINLESS STEEL;  
BUSHING: EPDM.
3. SPECIFICATIONS:
  - 3.1 OPERATING TEMPERATURE: -55°C TO +125°C.
  - 3.2 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
  - 3.3 INSULATION RESISTANCE: 1000 MEGOHM MIN @ 25°C.
  - 3.4 MOISTURE RESISTANCE: IP67 & IP69K (MATED CONDITION).
  - 3.5 MATING CYCLE DURABILITY: 100 CYCLES
  - 3.6 RoHS COMPLIANT
4. APPLY TO CABLE OD SIZE: Ø11.20-Ø24.08 . CAN BE USED:
  - 4.1. WITH LARGE AND SMALL BUSHINGS IN PLACE.
  - 4.2. WITH ONLY LARGE BUSHING IN PLACE.
  - 4.3. WITH BOTH BUSHINGS REMOVED.
5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
6. SEE SPECIFIC PLUG DRAWING FOR:
  - 6.1 CONTACT SIZE AND WIRE RANGE.
  - 6.2 RETAINING RING COLOR.
  - 6.3 MATING PART(S).
  - 6.4 CONTACT LAYOUT AND ALL OTHER SPECIFICATIONS.



ASSEMBLED



|                                       |  |                                                                                                                                                                                                                                                                      |  |
|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| AHDM06-24-23PR-059                    |  | HD36-24-23PE-059                                                                                                                                                                                                                                                     |  |
| PART NUMBER                           |  | DESCRIPTION                                                                                                                                                                                                                                                          |  |
| QUANTITY                              |  | ITEM                                                                                                                                                                                                                                                                 |  |
| MATERIALS LIST                        |  |                                                                                                                                                                                                                                                                      |  |
| UNLESS OTHERWISE SPECIFIED            |  |                                                                                                                                                                                                                                                                      |  |
| 1) All dimensions are in metric (mm). |  |                                                                                                                                                                                                                                                                      |  |
| 2) Tolerances are as follows:         |  |                                                                                                                                                                                                                                                                      |  |
| 1 PL DEC ±0.30                        |  |                                                                                                                                                                                                                                                                      |  |
| 2 PL DEC ±0.15                        |  |                                                                                                                                                                                                                                                                      |  |
| 3 PL DEC ±0.08                        |  |                                                                                                                                                                                                                                                                      |  |
| 3) Note reference =                   |  |                                                                                                                                                                                                                                                                      |  |
| MATERIAL SPECIFICATIONS:              |  | SIGNATURES                                                                                                                                                                                                                                                           |  |
| PROCESS SPECIFICATIONS:               |  | DATE                                                                                                                                                                                                                                                                 |  |
| NEXT ASSY:                            |  | DRAWN: J. HEAD                                                                                                                                                                                                                                                       |  |
|                                       |  | 16MAR2020                                                                                                                                                                                                                                                            |  |
|                                       |  | CHECKED:                                                                                                                                                                                                                                                             |  |
|                                       |  | ENGINEER:                                                                                                                                                                                                                                                            |  |
|                                       |  | APPROVAL:                                                                                                                                                                                                                                                            |  |
|                                       |  | CUSTOMER:                                                                                                                                                                                                                                                            |  |
|                                       |  | 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. |  |
|                                       |  | Sine Systems - www.amphenol-sine.com                                                                                                                                                                                                                                 |  |
|                                       |  | 44724 Morley Drive                                                                                                                                                                                                                                                   |  |
|                                       |  | Clinton Township, MI 48036                                                                                                                                                                                                                                           |  |
|                                       |  | DURAMATE AHDM PLUG, SIZE 24, WD THD, KIT W/ CABLE CLAMP BACKSHELL                                                                                                                                                                                                    |  |
|                                       |  | SIZE B C-                                                                                                                                                                                                                                                            |  |
|                                       |  | TYPE AHDM06-24-23PR-059                                                                                                                                                                                                                                              |  |
|                                       |  | DWG NO. A1                                                                                                                                                                                                                                                           |  |
|                                       |  | REVISION                                                                                                                                                                                                                                                             |  |
|                                       |  | SCALE NONE                                                                                                                                                                                                                                                           |  |
|                                       |  | SHEET 1 OF 1                                                                                                                                                                                                                                                         |  |

TITLE: KIT, PLUG AND BACKSHELL, SZ 24  
DWG NO: AHDM06-24-23PR-059  
REV: A1  
SH: 1  
OF: 1

# 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         | -             | -       |
| MXF-3950-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 18-20AWG         | -             | -       |
| MXF-3953-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 16-18AWG         | -             | -       |
| MXF-3975-G or K  | Crimp Die Press Applicator                     | S&F       | Size 16       | 14-16AWG         | -             | -       |
| MXF-3990         | Crimp Die                                      | S&F       | Size 16       | 20-22AWG         | -             | -       |
| ATT-16-00        | Hand Crimp Tool                                | S&F       | Size 16       | 14-16AWG         | -             | -       |
| ATT-16-01        | Hand Crimp Tool                                | S&F       | Size 16       | 18-20AWG         | -             | -       |
| ATT-1612-03      | Hand Crimp Tool                                | S&F       | Size 12/16    | 20-22AWG         | -             | -       |
| ATRT-100         | Contact and Wedgelock Extraction Tool          | Universal | Universal     | -                | Steel         | Silver  |
| AT11-310-1605    | Contact Extraction Tool                        | Universal | Size 16       | -                | Plastic       | Lt Blue |
| A114017          | Seal Plug                                      | Universal | Size 12/16    | -                | Thermoplastic | White   |
| A114017-SR       | Seal Plug                                      | Universal | Size 16       | -                | Thermoplastic | Black   |
| AT13-217-1605    | Locking Seal Plug                              | Universal | Size 16       | -                | Thermoplastic | Grey    |
| AT13-217-1605-SR | Locking Seal Plug                              | Universal | Size 16       | -                | Thermoplastic | Red     |
|                  |                                                |           |               |                  |               |         |

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