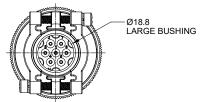


| REVISIONS |     |             |           |         |      |  |  |
|-----------|-----|-------------|-----------|---------|------|--|--|
| REV       | ECO | DESCRIPTION | DATE      | BY      | APPR |  |  |
| A1        |     | RELEASED    | 16MAR2020 | J. HEAD | DH   |  |  |
|           |     |     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



## NOTES: UNLESS OTHERWISE SPECIFIED

### 1. PLUG MATERIAL:

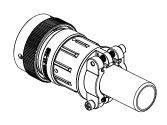
SHELL: ZINC ALLOY, NICKEL PLATED COUPLING RING: ALLUMINUM ALLOY, NICKEL PLATED INSERT AND RETAINING RING: THERMOPLASTIC SEAL: SILICONE RUBBER

### 2. BACKSHELL MATERIAL:

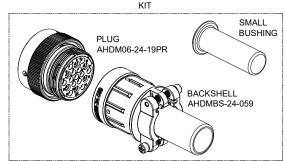
SHELL: ALUMINIUM ALLOY, NICKEL PLATED; LATCH SEGMENT: ALUMINIUM ALLOY, NICKEL PLATED; SCREW AND LOCK WASHER: STAINLESS STEEL; BUSHING: EPDM.

#### 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.







|  |   | AHDM06-2 | M06-24-19PR-059 HD36-24-19PE-059   |               |           |   | 1           |        |      |       |      |   |
|--|---|----------|--|---------------|-----------|---|-------------|--------|------|-------|------|---|
|  |   | PART N   | NUMBER   | JMBER         |           |   | DESCRIPTION |        |      |       | ITEM |   |
|  | QUANTITY MATERI   |          |  |               | ERI       | IALS 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  4 Angles ±1* |          | SIGNATUR   | SIGNATURES DA |           | Amphonol                                      |             |        |      |       |      |   |
|  |   |          | DRAWN: J. HEAD   |               | 16MAR2020 | <ul><li>Amphenol</li></ul>                    |             |        |      |       |      |   |
|  |   |          | CHECKED:   |               |           | Sine Systems - www.amphenol-sine.com          |             |        |      |       |      |   |
|  | 3) Note reference = X   |          | ENGINEER:  |               |           | 44724 Morley Drive Clinton Township, MI 48036 |             |        |      |       |      |   |
|  | MATERIAI SPECIFICA  | TIONE.   | APPROVAL:  |               |           | Clinton Township, MI 48036                    |             |        |      |       |      |   |
|  | WATERIAL SPECIFICA  | HONS.    | CUSTOMER:  |               | DUI       |   | ΓΕ AHDM PL  | /      |      | ,     | ΓHD, |   |
|  |   |          | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY, DESIGN FEATURES.  |               |           | KIT W/ CABLE CLAMP BACKSHELL                  |             |        |      |       |      |   |
|  | PROCESS SPECIFICATIONS:   |          | SPECIFICATIONS AND PERFORMANCE DATA<br>SHOWN HEREON ARE THE PROPERTY OF<br>THE AMPHENOL CORPORATION. NO RIGHTS<br>OF REPRODUCTION ARE IMPLIED. ALL<br>DIMENSIONS ARE SUBJECT TO NORMAL |               | B         | C-  | AHDM06      | 3-24-1 | 9PR- | -059  | A1   |   |
|  | NEXT ASS'Y:   |          |  |               |           | SCALE: N                                      | ONE         |        |      | SHEET | 1 or | 1 |

DWG NO: AHDM06-24-19PR-059

KIT,PLUG AND BACKSHELL,SZ 24

9 REV: A1 SH: 1

SH:

# **AT Series™** - Contact Size 16 Options

| Machined Contacts, Sockets & Pins |  |      |       |          |  |  |  |
|-----------------------------------|--|------|-------|----------|--|--|--|
| Part Number                       | Description                            | Size | AWG   | Туре     |  |  |  |
| 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<br>(Machined contacts only) |  |  |  |  |
| 5                           | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20<br>(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              |  |  |  |  |  |  |
| 4    | 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 (S&F contacts only)       |  |  |  |  |
|                                     | MFX-3953    | Crimp Die - Size 16, 16-18AWG (S&F contacts only)       |  |  |  |  |
|                                     | MFX-3975    | Crimp Die - Size 16, 14-16AWG (S&F contacts only)       |  |  |  |  |
|                                     | MFX-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) |  |  |  |  |
| 3/5/2                               | ATT-1612-03 | Hand Crimp Tool - Size 16, 20-22AWG (S&F contacts only) |  |  |  |  |

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# **ATP Series™** - Contact Size 12 Options

| Machined Contacts, Sockets & Pins |  |      |       |          |  |  |  |
|-----------------------------------|--|------|-------|----------|--|--|--|
| Part Number                       | Description                            | Size | AWG   | Type     |  |  |  |
| AT60-204-12141-10                 | Male Contact - Pin, Nickel-plated      | 12   | 10-12 | Machined |  |  |  |
| AT62-203-12141-10                 | Female Contact - Socket, Nickel-plated | 12   | 10-12 | Machined |  |  |  |
| AT60-220-1231                     | Male Contact - Pin, Gold-plated        | 12   | 12-14 | Machined |  |  |  |
| AT62-210-1231                     | Female Contact - Socket, Gold-plated   | 12   | 12-14 | Machined |  |  |  |
| AT60-204-12141                    | Male Contact - Pin, Nickel-plated      | 12   | 12-14 | Machined |  |  |  |
| AT62-203-12141                    | Female Contact - Socket, Nickel-plated | 12   | 12-14 | Machined |  |  |  |

| DiagnosticGrade™ Machined Contacts, Sockets & Pins • Smaller AWG for Diagnostic Applications • Gold-plated • Increased Mating Cycles • Cost-effective |   |    |    |          |  |  |  |
|---|---|----|----|----------|--|--|--|
| Part Number   | Part Number Description Size AWG Type                     |    |    |          |  |  |  |
| 65-54749  | Male Contact - DiagnosticGrade™, Pin, Gold-plated         | 12 | 20 | Machined |  |  |  |
| AT62-210-1231-1820  | Female Contact - DiagnosticGrade™, Socket,<br>Gold-plated | 12 | 20 | Machined |  |  |  |

| Tooling - Machined Contacts |             |  |  |  |  |  |
|-----------------------------|-------------|--|--|--|--|--|
| Part                        | Part Number | Description  |  |  |  |  |
|                             | CA-5D12     | Universal Hand Crimp Tool, Size 12/16/20<br>(Machined contacts only) |  |  |  |  |
| 33                          | CA-5E12     | Pneumatic Crimp Tool, Size 12/16/20<br>(Machined contacts only)      |  |  |  |  |

| Contact Removal Tools                                |             |   |  |  |  |  |
|--|-------------|---|--|--|--|--|
| Part   | Part Number | Description   |  |  |  |  |
|  | ATRT-100    | Used for removal of contacts for A Series™ products |  |  |  |  |
| AT11-337-1205 Contact Removal Tool, Plastic, Size 12 |             |   |  |  |  |  |
| 4  | A114017     | Sealing Plug, Size 12, White                        |  |  |  |  |

| Stamped & Formed Contacts, Sockets & Pins |  |      |       |                  |  |  |  |
|---|--|------|-------|------------------|--|--|--|
| Part Number                               | Description                            | Size | AWG   | Туре             |  |  |  |
| AT60-12-0244                              | Male Contact - Pin, Gold-plated        | 12   | 10-12 | Stamped & Formed |  |  |  |
| AT62-12-0244                              | Female Contact - Socket, Gold-plated   | 12   | 10-12 | Stamped & Formed |  |  |  |
| AT60-12-0222                              | Male Contact - Pin, Nickel-plated      | 12   | 10-12 | Stamped & Formed |  |  |  |
| AT62-12-0222                              | Female Contact - Socket, Nickel-plated | 12   | 10-12 | Stamped & Formed |  |  |  |
| AT60-12-0144                              | Male Contact - Pin, Gold-plated        | 12   | 12-14 | Stamped & Formed |  |  |  |
| AT62-12-0144                              | Female Contact - Socket, Gold-plated   | 12   | 12-14 | Stamped & Formed |  |  |  |
| AT60-12-0166                              | Male Contact - Pin, Nickel-plated      | 12   | 12-14 | Stamped & Formed |  |  |  |
| AT62-12-0166                              | Female Contact - Socket, Nickel-plated | 12   | 12-14 | Stamped & Formed |  |  |  |

| Tooling - Stamped & Formed Contacts |             |   |
|-------------------------------------|-------------|---|
| Part                                | Part Number | Description   |
|                                     | MFX-3973    | Crimp Die - Size 12 (S&F contacts only)                       |
|                                     | MFX-3985    | Crimp Die - Size 12 (S&F contacts only) 10-12AWG -02XX Series |
| Ł                                   | ATT-12-00   | Hand Crimp Tool - Size 12, 12AWG (S&F contacts only)          |

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