

REVISIONS REV ECO DESCRIPTION DATE BY APPR RELEASE NEW DRAWING 11MAY20 IAN TOMMY A1 MODIFY PRODUCT NAME 11AUG20 IAN TOMMY

TITLE: RECEPT, SIZE 24, 18-SOCKET, NORMAL SEAL, SRA, DURAMATE AHDP SERIES | DWG NO: AHDP04-24-18SN-SRA | REV: A2

SH

6 SIZE 12 CONTACTS SIZE 8 CONTACTS 6 (3 PLACES) (1 PLACES) 47.6 Ø50.8 SIZE 16 CONTACTS 6 (14 PLACES)

1. MATERIAL:

HOUSING: THERMOPLASTIC; BLACK

SEAL: SILICONE RUBBER

2. MODIFICATIONS: SMOOTH RING ADAPTER (SRA); STANDARD DIA. WIRE SEAL.

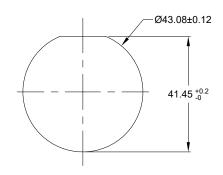
3. SPECIFICATIONS:

- 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. MATING PART: AHDP06-24-18P* (* = SEAL TYPE)
- 5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

6 CONTACT SIZE AND WIRE RANGE:

| CONTACT | MIN. INSUL | MAX. INSUL | TYPICAL | CURRENT |
|---------|----------------------|----------------------|---------------------------|---------|
| SIZE | O.D. | O.D. | WIRE RANGE | RATING |
| 8 | 4.83 mm (.190 in) | 6.10 mm (.240 in) | 8-10 AWG (10.0-5.0mm²) | 60 AMPS |
| 12 | 3.40 mm (.134 in) | 4.32 mm (.170 in) | 10-14 AWG (6.0-2.0mm²) | 25 AMPS |
| 16 | 2.50 mm (.100 in) | 3.40 mm (.134 in) | 14-20 AWG (2.0-0.5mm²) | 13 AMPS |

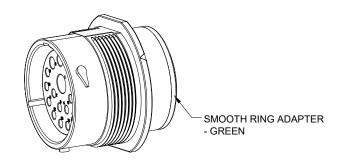
7. RECEPTACLE IS SUPPLIED WITH DUST CAP.



Ø37.7

RECOMMENDED PANEL MOUNTING HOLE

RECOMMENDED PANEL THICKNESS:1.6 TO 4.7MM



ΔHDP0/1-2/1-18SNLSRΔ

| | AUDE04-2 | 4-10011- | -SKA | REF:HDP24-24-18SN | | | | |
|---|------------|--|-------------------------------|--|--|--------|------------------------------------|------|
| | PART N | NUMBER | | | DESCRIPTION | | | ITEM |
| QUANTITY MATER | | | | [ERI | ٩LS | 3 LI | ST | |
| UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 Fractions ±1/64 | | SIGN | SIGNATURES DATE | | Λ 100 to lo 0 to 0 lo | | | |
| | | DRAWN: | IAN.XIAO | 11AUG20 | Ampheno | | | |
| 2 PL DEC ±0.15 3 PL DEC ±0.08 | Angles ±1° | CHECKED: | ORION.LI | 12AUG20 | | Sin | ne Systems - www.amphenol-sine.com | |
| 3) Note reference = X | | ENGINEER: | | | 44724 Morley Drive Clinton Township, MI 48036 | | | |
| MATERIAL SPECIFICA | TIONS: | APPROVAL: | TOMMY.XIE | 13AUG20 | Clinton Township, Mi 48036 | | | |
| MATERIAL OF EOI 107 | noro. | CUSTOMER: | | | RECEPT., SIZE 24, 18-SOCKET, | | | |
| | | | NG IS SUPPLIED | | NO | RMAL S | SEAL, SRA, DURAMATE AHDP SE | RIES |
| PROCESS SPECIFICATIONS: S S T | | SPECIFICATION SHOWN HERE THE AMPHEN OF REPRODU | ONS AND PERF EON ARE THE I | FORMANCE DATA PROPERTY OF TION. NO RIGHTS IPLIED. ALL | HTS B C - AHDP04-24-18SN-SR | | AHDP04-24-18SN-SRA | A2 |
| NEXT ASSY: | | | RING VARIATIO | ONS. | SCALE: N | ONE | DURAMATE SHEET 1 0 | € 1 |

AT Series™ - Contact Size 16 Options

| Machined Contacts, Sockets & Pins | | | | | | | |
|-----------------------------------|--|----|-------|----------|--|--|--|
| Part Number | Part Number Description | | | 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 (Machined contacts only) | | |
| 33 | 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 | | | |
| 4 | A114017 | Sealing Plug, Size 16, White | | | |

| Stamped & Formed Contacts, Sockets & Pins | | | | | | |
|---|--|------|-------|------------------|--|--|
| Part Number | Description | Size | AWG | Туре | | |
| 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) | | |
| | 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 09/2021

MagnaMate™ ATHP - DuraMate™ AHDP - DuraMate™ AHDM Series - Contact Size 12 Options

| Machined Contacts, Sockets & Pins | | | | | | |
|-----------------------------------|--|------|-------|----------|--|--|
| Part Number | Description | Size | AWG | Туре | | |
| 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 | rt Number Description Size AWG Type | | | | | |
| 65-54749 | Male Contact - DiagnosticGrade™, Pin, Gold-plated | 12 | 20 | Machined | | |
| AT62-210-1231-1820 | Female Contact - DiagnosticGrade™, Socket, Gold-plated | 12 | 20 | Machined | | |

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

| Contact Removal Tools | | | | |
|-----------------------|---------------|--|--|--|
| Part | Part Number | Description | | |
| | AT11-337-1205 | Contact Removal Tool, Plastic, Size 12 | | |
| | 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 | | | |
| | ATT-12-00 | Hand Crimp Tool - Size 12, 12AWG (S&F contacts only) | | | |
| | ATT-12-01 | Hand Crimp Tool - Size 12, 10AWG (S&F contacts only) | | | |

Amphenol Sine Systems 44724 Morley Drive Clinton Township, MI 48036 USA www.amphenol-sine.com 01/2022

DuraMate™ ATHD Series™ - Contact Size 8 Options

| Machined Contacts, Pins and Sockets | | | | | |
|-------------------------------------|--|------|------|----------|------|
| Part Number | Description | Size | AWG | Туре | Amps |
| AT60-204-08141 | Male Contact - Pin, Copper Alloy, Nickel-Plated | 8 | 8-10 | Machined | 60A |
| AT62-203-08141 | Female Contact - Socket, Copper Alloy, Nickel-Plated | | 8-10 | Machined | 60A |

| Tooling - Machined Contacts | | | | | |
|-----------------------------|-------------|---|--|--|--|
| Part | Part Number | Description | | | |
| | WA23 | Heavy Duty Pneumatic Crimp Tool -Uses Universal Positioner Part No. WA23-101DA and Crimp Locator MFX-3961 | | | |
| | WA23-2 | Die Assembly -for CA-5E12 Heavy Duty Pneumatic Crimp Tool, Size 8 | | | |
| mat | WA23-10 | Contact Locator, Size 8 | | | |
| THE AND | 96-978-22 | Crimper and Dies -for Size 10mm²-185mm² Wires | | | |

| Contact Removal Tools | | | | |
|-----------------------|-------------|--|--|--|
| Part | Part Number | Description | | |
| | AT114008 | Contact Removal Tool, Plastic, Size 8, 8-10AWG | | |