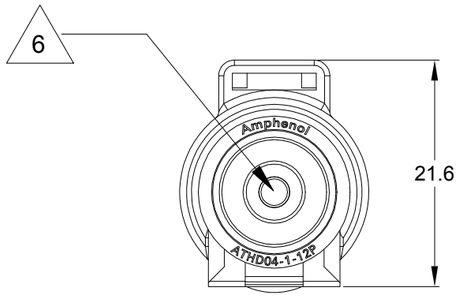
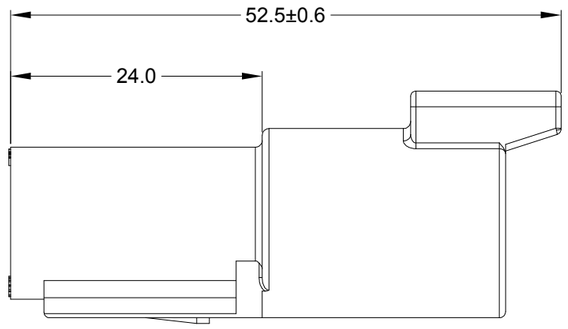
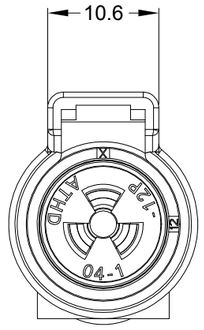
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE NUMBER | 27MAY20 | VITO | TOMMY |
| A2 | - | CHANGE IP RATE FROM IP67 TO IP67&IP69K | 27OCT20 | VITO | TOMMY |




NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   HOUSING: THERMOPLASTIC; COLOR:BLACK
   SEAL: SILICONE RUBBER

2. MODIFICAIONS: IN LINE

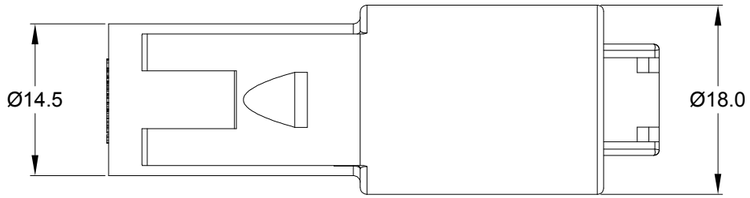
3. SPECIFICATIONS:
   3.1 CURRENT RATING: 25AMPS
   3.2 OPERATING TEMPERATURE: -55°C TO +125°C
   3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
   3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
   3.5 MOISTURE RESISTANCE: IP67&IP69K ( MATED CONDITION )
   3.6 MATING CYCLE DURABILITY: 100 CYCLES
   3.7 RoHS COMPLIANT

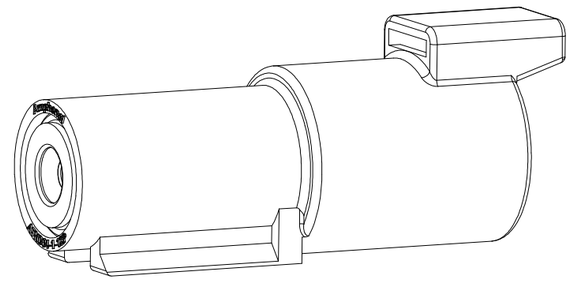
4. MATING PART:ATHD06-1-12S* PLUG
   ( * = MODIFICATIONS )

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) | 4.32 mm (.170 in) | 10 - 14 AWG (5.0-2.0 mm²) |



| | ATHD04-1-12P | | |
|---|---|---|---|
| | PART NUMBER | DESCRIPTION | ITEM |
| QUANTITY | MATERIALS LIST | | |

UNLESS OTHERWISE SPECIFIED
1) All dimensions are in metric(mm).
2) Tolerances are as follows:
1 PL DEC ±0.30 | Fractions ±1/64
2 PL DEC ±0.15 | Angles ±1°
3 PL DEC ±0.08
3) Note reference = X

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | VITO | 27/OCT/20 |
| CHECKED: | ORION | 28/OCT/20 |
| ENGINEER: | | |
| APPROVAL: | TOMMY | 29/OCT/20 |
| CUSTOMER: | | |

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASS'Y:

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Amphenol

Sine Systems - www.amphenol-sine.com
44724 Morley Drive
Clinton Township, MI 48036

1 POS, RECEPTACLE, PIN,
ATHD SERIES, SIZE 12, BLACK

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | ATHD04-1-12P | A2 |

SCALE: NONE SHEET 1 OF 1

TITLE: 1 POS, RECEPTACLE, PIN, ATHD SERIES, SIZE 12, BLACK
DWG NO: ATHD04-1-12P
REV: A2
SH: 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 ($mm^2$) | 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 | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Nickel-Plated | - | - |
| AT60-12-0222-LP | Pin | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Nickel-Plated | - | Loose Piece |
| AT60-12-0244 | Pin | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Gold-Plated | - | - |
| AT60-12-0244-LP | Pin | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Gold-Plated | - | Loose Piece |
| AT60-12-0144 | Pin | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Gold-Plated | - | - |
| AT60-12-0144-LP | Pin | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Gold-Plated | - | Loose Piece |
| AT60-12-0166 | Pin | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Nickel-Plated | - | - |
| AT60-12-0166-LP | Pin | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Nickel-Plated | - | Loose Piece |
| AT62-12-0222 | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Nickel-Plated | - | - |
| AT62-12-0222-LP | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Nickel-Plated | - | Loose Piece |
| AT62-12-0244 | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Gold-Plated | - | - |
| AT62-12-0244-LP | Socket | S&F | Size 12 | 25A | 10-12AWG | 6.0-4.0$mm^2$ | 3.56 - 5.18mm | Gold-Plated | - | Loose Piece |
| AT62-12-0144 | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Gold-Plated | - | - |
| AT62-12-0144-LP | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Gold-Plated | - | Loose Piece |
| AT62-12-0166 | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 2.87 - 4.47mm | Nickel-Plated | - | - |
| AT62-12-0166-LP | Socket | S&F | Size 12 | 25A | 12-14AWG | 4.0-2.0$mm^2$ | 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 |
|---|---|---|---|---|---|---|
| MFX-3973-G or K | Crimp Die Press Applicator | S&F | Size 12 | 12AWG | - | - |
| MFX-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 |
| | | | | | | |