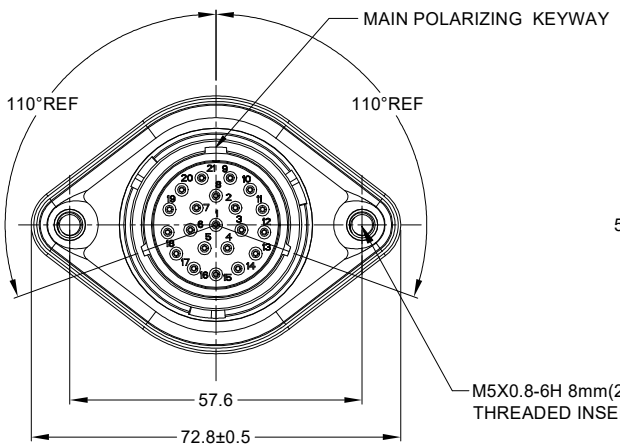
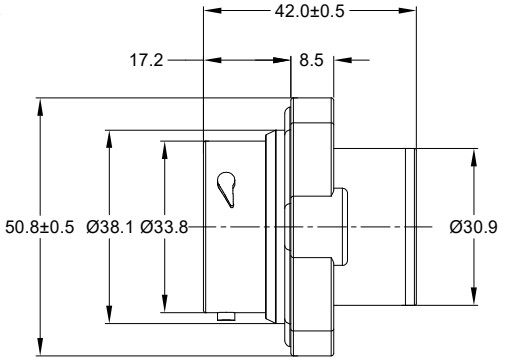
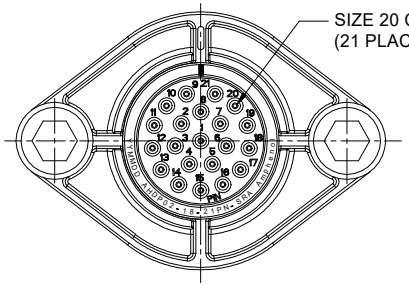
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | – | RELEASE NEW DRAWING | 13/JUL/20 | LOUIE | TOMMY |




RECOMMENDED TORQUE
VALUES: 1.9-2.2 N.m




NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   HOUSING: THERMOPLASTIC; BLACK
   SEAL: SILICONE RUBBER
   THREADED INSERT: STAINLESS STEEL

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

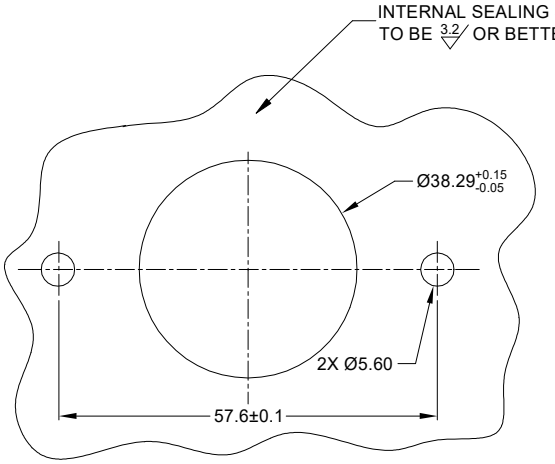
3. SPECIFICATIONS:
   3.1 OPERATING TEMPERATURE: -55℃ TO +125℃.
   3.2 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
   3.3 INSULATION RESISTANCE: 1000 MEGOHM MIN @ 25℃.
   3.4 MOISTURE RESISTANCE: IP67&IP69K ( MATED CONDITION ).
   3.5 MATING CYCLE DURABILITY: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

4. MATING PART: AHDP06-18-21S* ( * = SEAL TYPE )

5. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

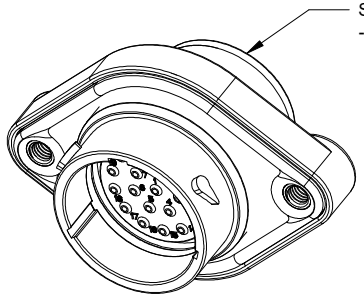
6 CONTACT SIZE AND WIRE RANGE:

| CONTACT SIZE | MIN. INSUL O.D. | MAX. INSUL O.D. | TYPICAL WIRE RANGE | CURRENT RATING |
|---|---|---|---|---|
| 20 | 1.02 mm (.040 in) | 2.41 mm (.095 in) | 16-22 AWG (1.5-0.35mm²) | 7.5 AMPS |




RECOMMENDED PANEL
MOUNTING HOLE

RECOMMENDED PANEL
THICKNESS:1.6 TO 4.7MM




| | AHDP02-18-21PN-SRA | | |
|---|---|---|---|
| | 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

MATERIAL SPECIFICATIONS:

PROCESS SPECIFICATIONS:

NEXT ASSY:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | LOUIE | 13/JUL/20 |
| CHECKED: | ORION | 14/JUL/20 |
| ENGINEER: | | |
| APPROVAL: | TOMMY | 16/JUL/20 |
| CUSTOMER: | | |

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Amphenol

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

21 POS, RECEPTACLE, PIN, PANELMATE
AHDP SIZE 18, NORMAL SEAL, SRA

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | AHDP02-18-21PN-SRA | A1 |

SCALE: NONE | DURAMATE | SHEET 1 OF 1

TITLE: 21 POS, RECEPTACLE, PIN, PANELMATE AHDP SIZE 18, NORMAL SEAL, SRA
DWG NO: AHDP02-18-21PN-SRA
REV: A1
SH: 1
OF: 1

# ATM, DuraMate™ and PanelMate™ Series

## Size 20 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| AT60-010-20141 | Pin | Machined | Size 20 | 7.5A | 16-18AWG | - | - | Nickel-Plated | - | - |
| AT60-010-2031 | Pin | Machined | Size 20 | 7.5A | 16-18AWG | - | - | Gold-Plated | - | - |
| AT60-202-20NKIT | Pin | Machined | Size 20 | 7.5A | 18-22AWG | - | - | Nickel-Plated | - | - |
| AT60-202-20141 | Pin | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Nickel-Plated | - | - |
| AT60-202-2031 | Pin | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Gold-Plated | - | - |
| AT60-202-2031-22 | Pin | Machined | Size 20 | 5A | 22-26AWG | - | - | Gold-Plated | - | - |
| AT60-202-20141-22 | Pin | Machined | Size 20 | 5A | 22-26AWG | - | - | Nickel-Plated | - | - |
| AT62-005-20141 | Socket | Machined | Size 20 | 7.5A | 16-18AWG | - | - | Nickel-Plated | - | - |
| AT62-005-2031 | Socket | Machined | Size 20 | 7.5A | 16-18AWG | - | - | Gold-Plated | - | - |
| AT62-201-20NKIT | Socket | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Nickel-Plated | - | - |
| AT62-201-20141 | Socket | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Nickel-Plated | - | - |
| AT62-201-2031 | Socket | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Gold-Plated | - | - |
| AT62-20-0422 | Socket | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Nickel-Plated | - | - |
| AT62-20-0444 | Socket | Machined | Size 20 | 7.5A | 20-22AWG | - | - | Gold-Plated | - | - |
| AT62-201-2031-22 | Socket | Machined | Size 20 | 5A | 22-26AWG | - | - | Gold-Plated | - | - |
| AT62-201-20141-22 | Socket | Machined | Size 20 | 5A | 22-26AWG | - | - | Nickel-Plated | - | - |
| | | | | | | | | | | |

Contacts - Stamped & Formed

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| AT60-20-0122 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Nickel-Plated | - | - |
| AT60-20-0122-LP | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Nickel-Plated | - | Loose Piece |
| AT60-20-0144 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Gold-Plated | - | - |
| AT60-20-0144-LP | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Gold-Plated | - | Loose Piece |
| AT60-20-0222 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Nickel-Plated | - | - |
| AT60-20-0244 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Gold-Plated | - | - |
| AT60-20-0277 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Tin-Plated | - | - |
| AT60-20-0422 | Pin | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35$mm^2$ | 1.25 - 1.8mm | Nickel-Plated | - | - |
| AT60-20-0444 | Pin | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35$mm^2$ | 1.25 - 1.8mm | Gold-Plated | - | - |
| AT62-20-0122 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Nickel-Plated | - | - |
| AT62-20-0122-LP | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Nickel-Plated | - | Loose Piece |
| AT62-20-0144 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Gold-Plated | - | - |
| AT62-20-0144-LP | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.91 - 3.15mm | Gold-Plated | - | Loose Piece |
| AT62-20-0222 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Nickel-Plated | - | - |
| AT62-20-0244 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Gold-Plated | - | - |
| AT62-20-0277 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35$mm^2$ | 1.30 - 2.16mm | Tin-Plated | - | - |
| AT62-20-0422 | Socket | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35$mm^2$ | 1.25 - 1.8mm | Nickel-Plated | - | - |
| AT62-20-0444 | Socket | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35$mm^2$ | 1.25 - 1.8mm | Gold-Plated | - | - |

# ATM, DuraMate™ and PanelMate™ Series

## Size 20 Contact & Tooling Options, cont.

Tooling

| Part Number | Tool Name | Style | Contact Size | Wire Range (AWG) | Material | Color |
|---|---|---|---|---|---|---|
| AUTK-20 | Hand Crimp Tool | Machined | Size 20 | 12-26AWG | - | - |
| 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 | - | - |
| MFX-3974-G or K | Crimp Die Press Applicator | S&F | Size 20 | 20AWG | - | - |
| MFX-3976-G or K | Crimp Die Press Applicator | S&F | Size 20 | 20-22AWG | - | - |
| MFX-3978-G or K | Crimp Die Press Applicator | S&F | Size 20 | 20-22AWG | - | - |
| ATT-20-00 | Hand Crimp Tool | S&F | Size 20 | 16-20AWG | - | - |
| ATRT-100 | Contact and Wedgelock Extraction Tool | Universal | Universal | - | Steel | Silver |
| AT11-240-2005 | Contact Extraction Tool | Universal | Size 20 | - | Plastic | Red |
| AT13-204-2005 | Seal Plug | Universal | Size 20 | - | Thermoplastic | White |
| AT13-204-2005-SR | Seal Plug | Universal | Size 20 | n/a | Thermoplastic | Black |
| ATM13-217-2005 | Locking Seal Plug | Universal | Size 20 | - | Thermoplastic | Grey |
| ATM13-217-2005-SR | Locking Seal Plug | Universal | Size 20 | - | Thermoplastic | Blue |
| | | | | | | |