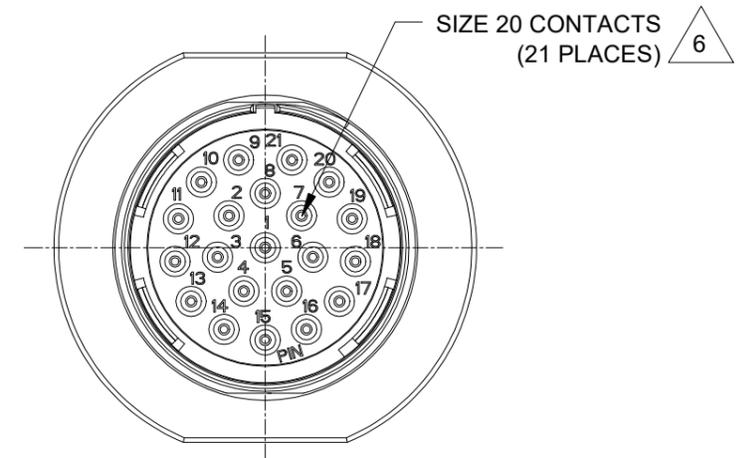


| REVISIONS | | | | | |
|-----------|-----|--|-----------|--------|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE NEW DRAWING | 17/OCT/18 | BROOK | TOMMY |
| A2 | - | ADD MORE MATERIAL NOTES | 24/OCT/18 | ROOKIE | TOMMY |
| A3 | - | UPDATE MAX. INSUL O.D. FOR 20# CONTACT | 18/APR/22 | IAN | TOMMY |

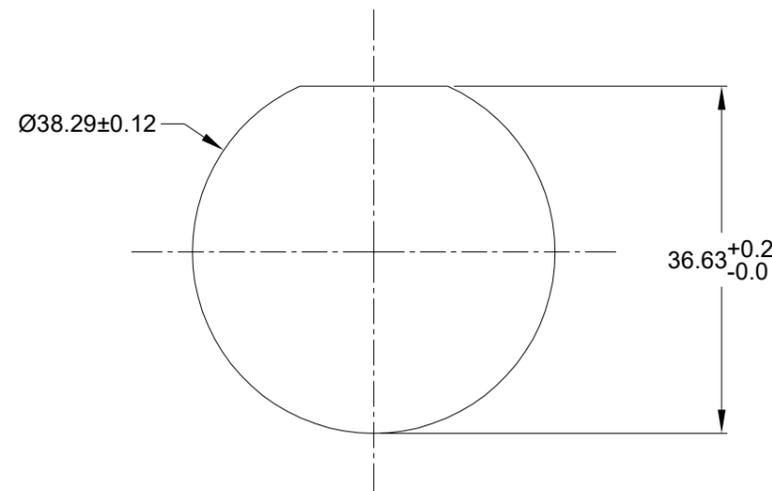


NOTES: UNLESS OTHERWISE SPECIFIED

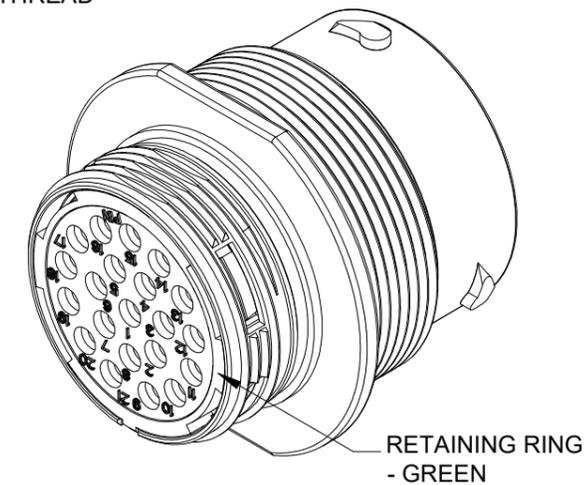
- MATERIAL:
SHELL: ZINC ALLOY, NICKEL PLATED
INSERT AND RETAINING RING: THERMOPLASTIC
SEAL: SILICONE RUBBER
- MODIFICATIONS: THREADED HOUSING; NORMAL DIA. SEAL
- SPECIFICATIONS:
 - OPERATING TEMPERATURE: -55°C TO +125°C.
 - DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
 - INSULATION RESISTANCE: 1000 MEGOHM MIN @ 25°C.
 - MOISTURE RESISTANCE:
IP68(IM OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION);
IP69K(MATED CONDITION)
 - MATING CYCLE DURABILITY: 100 CYCLES
 - RoHS COMPLIANT
- MATING PART: AHDM06-18-21S* (* = SEAL TYPE)
- 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 | 7.5 AMPS |



RECOMMENDED PANEL MOUNTING HOLE
RECOMMENDED PANEL THICKNESS: 1.6 TO 4.7MM



| QUANTITY | AHDM04-18-21PN | DESCRIPTION | ITEM |
|----------|----------------|-------------|------|
| | | | |

| MATERIALS LIST | | |
|-----------------|-----------|--|
| SIGNATURES | DATE | |
| DRAWN: IAN | 18/APR/22 | |
| CHECKED: SULLEN | 18/APR/22 | |
| ENGINEER: | | |
| APPROVAL: TOMMY | 19/APR/22 | |
| CUSTOMER: | | |

| | | | |
|--------------------------------------|-----------------|--|----------------|
| UNLESS OTHERWISE SPECIFIED | | Sine Systems - www.amphenol-sine.com | |
| 1) All dimensions are in metric(mm). | | 44724 Morley Drive | |
| 2) Tolerances are as follows: | | Clinton Township, MI 48036 | |
| 1 PL DEC ±0.30 | Fractions ±1/64 | 21P, RECEPTACLE, PIN, NORMAL SEAL, DURAMATE AHDM, 18SZ | |
| 2 PL DEC ±0.15 | Angles ±1° | | |
| 3 PL DEC ±0.08 | | | |
| 3) Note reference = X | | SIZE | REVISION |
| MATERIAL SPECIFICATIONS: | | B C- | A3 |
| WEIGHT: 98.1g | | DWG NO: | AHDM04-18-21PN |
| PROCESS SPECIFICATIONS: | | SCALE: | NONE |
| NEXT ASSY: | | DURAMATE | SHEET 1 OF 1 |

TITLE: 21P RECEPTACLE, PIN, NORMAL SEAL, DURAMATE AHDM, 18SZ
DWG NO: AHDM04-18-21PN
REV: A3
SH: 1
OF: 1

ATM Series™ - Contact Size 20 Options

| Machined Contacts, Sockets & Pins | | | | |
|-----------------------------------|--|------|-------|----------|
| Part Number | Description | Size | AWG | Type |
| AT60-010-2031 | Male Contact - Pin, Gold-plated | 20 | 16-18 | Machined |
| AT62-005-20141 | Female Contact - Socket, Gold-plated | 20 | 16-18 | Machined |
| AT60-010-20141 | Male Contact - Pin, Nickel-plated | 20 | 16-18 | Machined |
| AT62-005-2031 | Female Contact - Socket, Nickel-plated | 20 | 16-18 | Machined |
| AT60-202-2031 | Male Contact - Pin, Gold-plated | 20 | 20-22 | Machined |
| AT62-201-2031 | Female Contact - Socket, Gold-plated | 20 | 20-22 | Machined |
| AT60-202-20141 | Male Contact - Pin, Nickel-plated | 20 | 20-22 | Machined |
| AT62-201-20141 | Female Contact - Socket, Nickel-plated | 20 | 20-22 | Machined |

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

| Contact Removal Tools | | |
|--|---------------|---|
| Part | Part Number | Description |
|  | ART1-100 | Used for removal of contacts for A Series™ products |
|  | AT11-240-2005 | Contact Removal Tool, Plastic, Size 20 |

| Sealing Plugs | | |
|---|-------------------|--|
| Part | Part Number | Description |
|  | AT13-204-2005 | Sealing Plug, Size 20, White |
|  | AT13-204-2005-SR | Sealing Plug, Size 20, SR01 Series, Black |
|  | ATM13-217-2005 | Locking Sealing Plug, Size 20, Grey |
|  | ATM13-217-2005-SR | Locking Sealing Plug, Size 20, SR01 Series, Blue |

| Stamped & Formed Contacts, Sockets & Pins | | | | |
|---|--|------|-------|------------------|
| Part Number | Description | Size | AWG | Type |
| AT60-20-0144 | Male Contact - Pin, Gold-plated | 20 | 16-22 | Stamped & Formed |
| AT62-20-0144 | Female Contact - Socket, Gold-plated | 20 | 16-22 | Stamped & Formed |
| AT60-20-0244 | Male Contact - Socket, Gold-plated | 20 | 16-22 | Stamped & Formed |
| AT62-20-0244 | Female Contact - Socket, Gold-plated | 20 | 16-22 | Stamped & Formed |
| AT60-20-0122 | Male Contact - Pin, Nickel-plated | 20 | 16-22 | Stamped & Formed |
| AT62-20-0122 | Female Contact - Socket, Nickel-plated | 20 | 16-22 | Stamped & Formed |
| AT60-20-0222 | Male Contact - Socket, Nickel-plated | 20 | 16-22 | Stamped & Formed |
| AT62-20-0222 | Female Contact - Socket, Nickel-plated | 20 | 16-22 | Stamped & Formed |
| AT60-20-0277 | Male Contact - Socket, Tin-plated | 20 | 16-22 | Stamped & Formed |
| AT62-20-0277 | Female Contact - Socket, Tin-plated | 20 | 16-22 | Stamped & Formed |
| AT60-20-0422 | Male Contact - Socket, Nickel-plated | 20 | 20-22 | Stamped & Formed |
| AT62-20-0444 | Female Contact - Socket, Gold-plated | 20 | 20-22 | Stamped & Formed |

| Tooling - Stamped & Formed Contacts | | |
|---|-------------|---|
| Part | Part Number | Description |
|  | MFX-3974 | Crimp Die - Size 20 (S&F contacts only) |
| | MFX-3976 | Crimp Die - Size 20 (S&F contacts only) 20-22AWG -04XX Series |
| | MFX-3978 | Crimp Die - Size 20 (S&F contacts only) 20-22AWG -02XX Series |
|  | ATT-20-00 | Hand Crimp Tool - Size 20, 20AWG (S&F contacts only) |

Amphenol Sine Systems
 44724 Morley Drive
 Clinton Township, MI 48036 USA
www.amphenol-sine.com
 03/2022