



| REVISIONS | | | | | |
|-----------|-----|---------------------------------|-----------|-----|-------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE DRAWING | 30/AUG/21 | IAN | TOMMY |
| A2 | - | MODIFICATION TYPICAL WIRE RANGE | 15/SEP/21 | IAN | TOMMY |

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:
HOUSING: THERMOPLASTIC, BLACK
INTERFACE SEAL: SILICONE RUBBER, RED
GROMMET: SILICONE RUBBER, RED
SEAL RETAINER: THERMOPLASTIC, BLACK
TERMINAL POSITION ASSURANCE LOCK: THERMOPLASTIC, SEE KEYS ARRANGEMENTS FOR COLOR
- MODIFICATIONS: N/A
- SPECIFICATIONS:
3.1 CURRENT RATING: 7.5 AMPS
3.2 OPERATING TEMPERATURE: -55°C TO +150°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:
IP68(IM OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION);
IP69K(MATED CONDITION)
3.6 MATING CYCLE DURABILITY: 100 CYCLES
3.7 RoHS COMPLIANT

4. MATING PART: ATMH06-2SX (X = A,B,C,D KEYS)

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 |
|--------------|-------------------|-------------------|---|
| 20 | 1.35 mm (.053 in) | 3.05 mm (.120 in) | 16 - 22 AWG (1.5 - 0.35 mm ²) |

7 TERMINAL POSITION ASSURANCE (TPA) LOCK PRE-MOUNTED: AWMH-2PX (X = A,B,C,D KEYS)

KEYS ARRANGEMENTS

KEY-A CONFIGURATION
ATMH04-2PA
TPA COLOR: GRAY

KEY-B CONFIGURATION
ATMH04-2PB
TPA COLOR: BLACK

KEY-C CONFIGURATION
ATMH04-2PC
TPA COLOR: GREEN

KEY-D CONFIGURATION
ATMH04-2PD
TPA COLOR: BROWN

TITLE: 2 POS, RECEPTACLE, PIN, ATMH SERIES, KEYED, BLACK COLOR
DWG NO.: ATMH04-2PX
REV: A2
SH: 1
OF: 1

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|----------|-----------------------------------|--|------|
| | ATMH04-2PX(SEE KEYS ARRANGEMENTS) | REF:DTMH04-2PA, DTMH04-2PB, DTMH04-2PC, DTMH04-2PD | |

MATERIALS LIST

| | | | | |
|--|---|---|---|---|
| <p>UNLESS OTHERWISE SPECIFIED</p> <p>1) All dimensions are in metric(mm).</p> <p>2) Tolerances are as follows:</p> <p>1 PL DEC ±0.30</p> <p>2 PL DEC ±0.15</p> <p>3 PL DEC ±0.08</p> <p>3) Note reference = \triangle</p> | <p>SIGNATURES</p> <p>DRAWN: IAN</p> <p>CHECKED: SULLEN</p> <p>ENGINEER:</p> <p>APPROVAL: TOMMY</p> | <p>DATE</p> <p>15/SEP/21</p> <p>15/SEP/21</p> <p>16/SEP/21</p> | <p style="text-align: center;">Amphenol</p> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p style="text-align: center;">2 POS, RECEPTACLE, PIN, ATMH SERIES, KEYED, BLACK COLOR</p> | |
| | <p>MATERIAL SPECIFICATIONS:</p> | | | <p>CUSTOMER:</p> |
| | <p>PROCESS SPECIFICATIONS:</p> | | | <p>THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS.</p> |
| | <p>NEXT ASSY:</p> | <p>SIZE: B C-</p> <p>SCALE: NONE</p> | | <p>DWG NO.: ATMH04-2PX</p> <p>REVISION: A2</p> |

SHEET 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 |
|  | ATRT-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) |