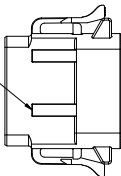
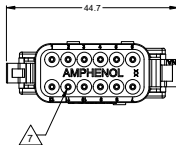
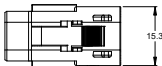
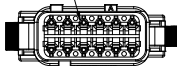


| REVISIONS | | | | | |
|-----------|-----|--------------------------------------|-----------|--------|------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A3 | | RELEASE NEW DWG FORMAT | 06/07/13 | DRP | |
| A4 | | UPDATED VIEWS FOR NA MOLDS | 08MAR2025 | J-HEAD | TZ |
| A5 | - | ADDED IP RATING IP69K & FLAMMABILITY | 10OCT2025 | J-HEAD | DH |

1
KEYED (3) PLACES



REQUIRES CONTACT
RETENTION WEDGE AWM-12S



NOTES: UNLESS OTHERWISE SPECIFIED

1 SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.

2. MATERIAL:
HOUSING: THERMOPLASTIC
SEAL: SILICONE RUBBER

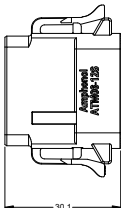
3. MODIFICATIONS: N/A

4. SPECIFICATIONS:

- 4.1 CURRENT RATING: 7.5 AMPS
- 4.2 OPERATING TEMPERATURE: -55°C TO +125°C
- 4.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.
- 4.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.
- 4.5 MOISTURE RESISTANCE:
IP68 (1M OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION)
IP69K (MATED CONDITION)
- 4.6 MATING CYCLE DURABILITY: 100 CYCLES
- 4.7 RoHS COMPLIANT
- 4.8 FLAMMABILITY RATING: UL94-V0

5. MATING PART: ATM04-12PX* RECEPTACLE.
(X = A,B,C,D KEYS; * = MODIFICATIONS AND COLORS)

6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.



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 |

REVISED

TITLE
PLUG, KEYED, 12 SOCKET, ATM SERIES

DATE

ITEM NO
ATM06-12SX-XXX

REV
A5

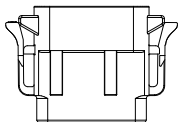
PKT
1

OF
2

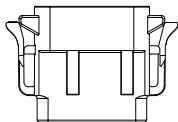
| SEE SHEET 2 | | DESCRIPTION | | ITEM |
|---|-------------|---|--|---------------------------|
| QUANTITY | PART NUMBER | MATERIALS LIST | | |
| | | Amphenol | | |
| UNLESS OTHERWISE SPECIFIED: 1) All dimensions are in millimeters. 2) Tolerances are as follows: 1 PL DEC to .30 Precision ±1.0% Angles ±1° 2 PL DEC to .30 Angles ±1° 3) Note references = | | DATE 18JUN13 | Site Systems - www.amphenol-sine.com 44724 Marley Drive Clinton Township, MI 48036 | |
| MATERIAL SPECIFICATIONS | | PLUG, KEYED, 12 SOCKET, ATM SERIES | | |
| PROCESS SPECIFICATIONS | | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SPECIFIED HEREON ARE THE PROPERTY OF THE APPLICABLE CORPORATION, AND RIGHTS OF PROPRIETORS ARE RESERVED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. | | |
| BEST APPX | | SCALE NONE | REV B C- | ITEM NO ATM06-12SX-XXX |
| | | REV A5 | | PKT 1 OF 2 |

| REVISONS | | | | | |
|----------|-----|-------------|------|----|------|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |

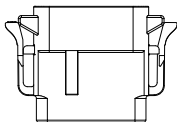
P/N ATM06-12SA
KEY-A CONFIGURATION
STANDARD COLOR: GREY



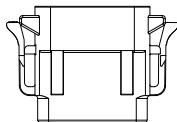
P/N ATM06-12SB
KEY-B CONFIGURATION
STANDARD COLOR: BLACK



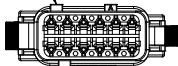
P/N ATM06-12SC
KEY-C CONFIGURATION
STANDARD COLOR: GREEN



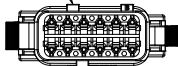
P/N ATM06-12SD
KEY-D CONFIGURATION
STANDARD COLOR: BROWN



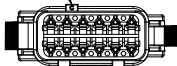
KEYED (3) PLACES



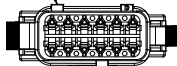
KEYED (3) PLACES



KEYED (3) PLACES



KEYED (3) PLACES



KEY-A CONFIGURATION

| COLOR | PART NUMBER |
|--------|----------------|
| * GREY | ATM06-12SA |
| BLACK | ATM06-12SA-BLK |
| GREEN | ATM06-12SA-GRN |
| BROWN | ATM06-12SA-BRN |

KEY-B CONFIGURATION

| COLOR | PART NUMBER |
|---------|----------------|
| GREY | ATM06-12SB-GRY |
| * BLACK | ATM06-12SB |
| GREEN | ATM06-12SB-GRN |
| BROWN | ATM06-12SB-BRN |

KEY-C CONFIGURATION

| COLOR | PART NUMBER |
|---------|----------------|
| GREY | ATM06-12SC-GRY |
| BLACK | ATM06-12SC-BLK |
| * GREEN | ATM06-12SC |
| BROWN | ATM06-12SC-BRN |

KEY-D CONFIGURATION

| COLOR | PART NUMBER |
|---------|----------------|
| GREY | ATM06-12SD-GRY |
| BLACK | ATM06-12SD-BLK |
| GREEN | ATM06-12SD-GRN |
| * BROWN | ATM06-12SD |

NOTE:

AN ASTERISKS (*) PLACED BEFORE THE COLOR DENOTES THE STANDARD MOLDED COLOR OF THE CONNECTORS SHOWN ABOVE.

OTHER COLORS SHOWN ARE AVAILABLE VIA SPECIAL ORDER.

| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |
|--|-------------|--|---|
| MATERIALS LIST | | | |
| UNLESS OTHERWISE SPECIFIED: 1) All dimensions are in inches/mm 2) Tolerances are as follows: 3 P.L. DEC 40 18 3 P.L. DEC 40 18 3 P.L. DEC 40 18 3) Note reference to | | SIGNATURES: DESIGN: DW/MS DATE: 18/JUN/13 CHECKED: DRAWN: APPROVAL: CUSTOMER: | Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036 |
| MATERIAL SPECIFICATIONS: THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. GEOMETRIC 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. | | PLUG, KEYED, 12 SOCKET, ATM SERIES | |
| PROCESS SPECIFICATIONS: NEXT ASSY: | | SCALE: NONE SHEET 2 OF 2 | REV: B ECO: C- QTY: ATM06-12SX-XXX REV: A5 SHEET 2 OF 2 |

TITLE: PLUG, KEYED, 12 SOCKET, ATM SERIES
 DWG NO: ATM06-12SX-XXX
 REV: A5
 SHEET 2 OF 2

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 | 1.5-0.35mm ² | 1.91 - 3.15mm | Nickel-Plated | - | - |
| AT60-20-0122-LP | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Nickel-Plated | - | Loose Piece |
| AT60-20-0144 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Gold-Plated | - | - |
| AT60-20-0144-LP | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Gold-Plated | - | Loose Piece |
| AT60-20-0222 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Nickel-Plated | - | - |
| AT60-20-0244 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Gold-Plated | - | - |
| AT60-20-0277 | Pin | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Tin-Plated | - | - |
| AT60-20-0422 | Pin | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Nickel-Plated | - | - |
| AT60-20-0444 | Pin | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Gold-Plated | - | - |
| AT60-20-0477 | Pin | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Tin-Plated | - | - |
| AT62-20-0122 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Nickel-Plated | - | - |
| AT62-20-0122-LP | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Nickel-Plated | - | Loose Piece |
| AT62-20-0144 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Gold-Plated | - | - |
| AT62-20-0144-LP | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.91 - 3.15mm | Gold-Plated | - | Loose Piece |
| AT62-20-0222 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Nickel-Plated | - | - |
| AT62-20-0244 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Gold-Plated | - | - |
| AT62-20-0277 | Socket | S&F | Size 20 | 7.5A | 16-22AWG | 1.5-0.35mm ² | 1.30 - 2.16mm | Tin-Plated | - | - |
| AT62-20-0422 | Socket | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Nickel-Plated | - | - |
| AT62-20-0444 | Socket | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Gold-Plated | - | - |
| AT62-20-0477 | Socket | S&F | Size 20 | 7.5A | 20-22AWG | 0.5-0.35mm ² | 1.25 - 1.8mm | Tin-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 |
| | | | | | | |