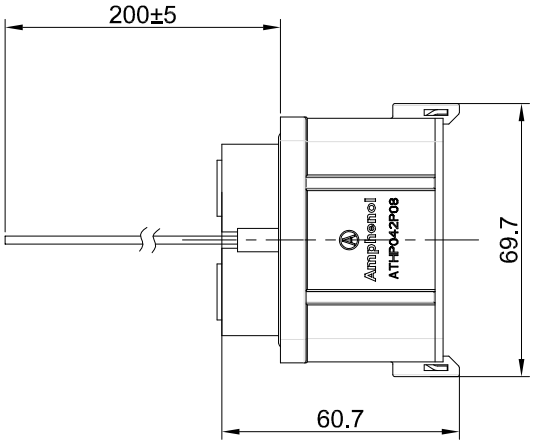
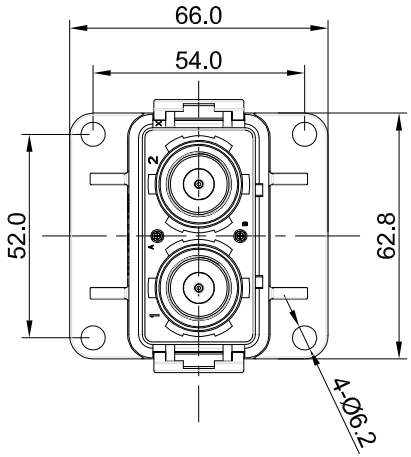
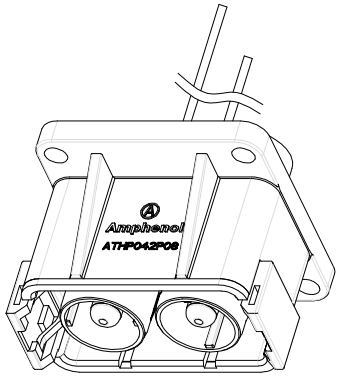
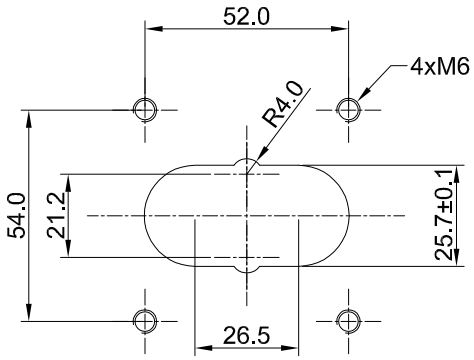
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| A1 | - | RELEASE NEW DRAWING | Aug.31,2016 | Tod | Tommy |
| A2 | - | UPDATE DRAWING | Dec.15,2016 | Regan | Tommy |




RECOMMEND PANEL CUT

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL:
   1.1 HOUSING: THERMOPLASTIC UL 94V0
   1.2 SEAL: SILICONE RUBBER
   1.3 POWER CONTACT: COPPER ALLOY, SILVER PLATED

2. SPECIFICATIONS:
   2.1 CURRENT RATING: 50mm$^2$@180 AMPS
   2.2 VOLTAGE RATING: 1000 V AC/DC
   2.3 OPERATING TEMPERATURE: -40°C TO +130°C
   2.4 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 3000 VOLTS AC.
   2.5 INSULATION RESISTANCE: 500 MEGOHMS MIN@25°C.
   2.6 DEGREE OF PROTECTION: IP67 (MATED CONDITION)
   2.7 MATING CYCLE DURABILITY: 100 CYCLES
   2.8 RoHS COMPLIANT

3. SIGNAL CONTACT: RT SERIES 16# PIN CONTACT
   POWER CONTACT: SC000384-8

4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

Wiring Diagram

| | |
|---|---|
| A) | UL 3266 18AWG RED |
| B) | UL 3266 18AWG BLACK |

| 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: | Regan | Dec.15,2016 |
| CHECKED: | | |
| ENGINEER: | | |
| APPROVAL: | | |
| CUSTOMER: | | |

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Amphenol
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44724 Morley Drive
Clinton Township, MI 48036


ATHP, RECEPTACLE,2 PIN,8MM FLANG MOUNTING WITHOUT EMC SHIELDING

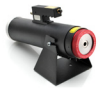
| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | ATHP042P08NL16-50 | A2 |

SCALE: NONE SHEET 1 OF 1

TITLE: ATHP,REC,2 PIN,8MM, FLANG MOUNTING WITHOUT EMC SHIELDING
DWG NO: ATHP042P08NL16-50
REV: A2
SH: 1
OF: 1

# **MagnaMate™ ATHP Standard** - Contact Options

| **Power Contacts** - Machined Contacts, Sockets & Pins | | | | | |
|---|---|---|---|---|---|
| Part Number | Description | Size | AWG | Type | Amps |
| SC000383-8 | Female Contact - Socket, Gold-plated | 8mm | 50mm2 | Machined | 180A |
| SC000384-8 | Male Contact - Pin, Nickel-plated | 8mm | 50mm2 | Machined | 180A |
| SC000445-8 | Female Contact - Socket, Nickel-plated | 8mm | 50mm2 | Machined | 180A |
| SC000384-8-M1 | Male Contact - Pin, Gold-plated | 8mm | 50mm2 | Machined | 180A |

| **Tooling - Machined Contacts** | | |
|---|---|---|
| **Part** | **Part Number** | **Description** |
|  | WA23 | Heavy Duty Pneumatic Crimp Tool<br>-Uses Universal Positioner Part No. WA23-101DA and Crimp Locator MFX-3961 |
|  | WA23-8 | Die Assembly<br>-for WA23 Heavy Duty Pneumatic Crimp Tool |
|  | WA23-10 | Contact Locator, Size 50mm |
|  | 96-978-22 | Crimper and Dies<br>-for Size 10mm²-185mm² Wires |
|  | QXATHP-50 | Contact Extraction Tool 50mm2 |

| **Control Contacts** - Crimp Contacts, Stamped & Formed | | | | |
|---|---|---|---|---|
| **Part Number** | | **AWG** | **Wire Range (mm²)** | **Plating** |
| **Male** | **Female** | | | |
| | SS14M2F | 14 | 2.0-2.5 | Gold Flash |
| | SS14M2G5 | 14 | 2.0-2.5 | Gold 5µ" |
| | SS14M2G10 | 14 | 2.0-2.5 | Gold 10µ" |
| | SS14M2G15 | 14 | 2.0-2.5 | Gold 15µ" |
| | SS14M2G30 | 14 | 2.0-2.5 | Gold 30µ" |
| SP16M2F | | 18-16 | 0.75-1.50 | Gold Flash |
| SP16M2G5 | | 18-16 | 0.75-1.50 | Gold 5µ" |
| SP16M2G10 | | 18-16 | 0.75-1.50 | Gold 10µ" |
| SP16M2G15 | | 18-16 | 0.75-1.50 | Gold 15µ" |
| SP16M2G30 | | 18-16 | 0.75-1.50 | Gold 30µ" |

| **Tooling, Stamped & Formed** | |
|---|---|
| **Part Number** | **Description** |
| QXRT16 | Contact Extraction Tool, #16 (Ø 1.6) Contact |
| MFX-3954 | Hand Tool, Stamped & Formed Contact, Size 16, 20-14AWG |
| MFX-3957 | Crimp Die for Stamped & Formed Contact |

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04/2022