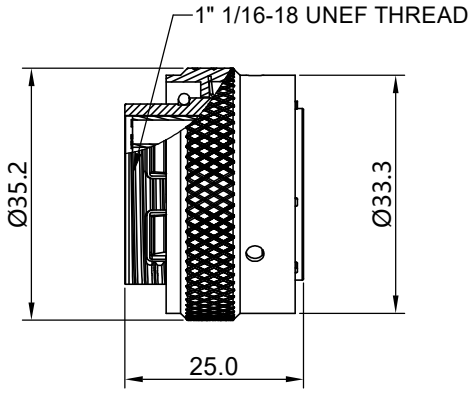
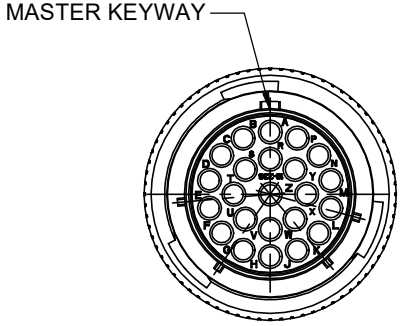
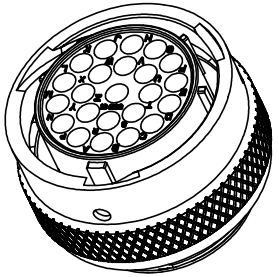
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| B1 | - | RELEASED DRAWING | JUN-20-2014 | BEN | TOMMY |
| B2 | - | UPDATE THE VOLTAGE | JUN-18-2019 | FLAN | TOMMY |



NOTES: (UNLESS OTHERWISE SPECIFIED)
1. MATERIAL:
   SHELL: ZINC ALLOY, NICKEL PLATED.
   INSERT: THERMOPLASTIC, UL94 V-0.
   COUPLING NUT: AL ALLOY, NICKEL PLATED.
   WAVE WASHER: STAINLESS STEEL.
   O-RING: NBR/SILICONE RUBBER.
2. SPECIFICATIONS:
   2.1 RATED CURRENT: 13A (MAX).
   2.2 RATED VOLTAGE: 500V (AC/DC).
   2.3 OPERATING TEMPERATURE: SEE CHART.
   2.4 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE@2000 VOLTS AC.
   2.5 INSULATION RESISTANCE: 5000 MEGOHMS MIN.
   2.6 IP--CLASS: IP67(MATED CONDITION).
   2.7 MATING CYCLES DURABILITY: 500 CYCLES MIN.
   2.8 ROHS COMPLIANT.
3. SUITABLE CONTACTS : 16# CONTACTS.
4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| KEY POS | PART NUMBER | |
|---|---|---|
| | -40°C ~ 105°C | -40°C ~ 125°C |
| N | RT061823SNH | RT061823SNH03 |
| W | RT061823SWH | RT061823SWH03 |
| X | RT061823SXH | RT061823SXH03 |
| Y | RT061823SYH | RT061823SYH03 |
| Z | RT061823SZH | RT061823SZH03 |

| | SEE PART NUMBER CHART | | |
|---|---|---|---|
| QUANTITY | PART NUMBER | DESCRIPTION | ITEM |

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 ASS'Y:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | Flan | Jun-18-19 |
| CHECKED: | Martin | Jun-18-19 |
| ENGINEER: | | |
| APPROVAL: | Tommy | Jun-18-19 |
| CUSTOMER: | | |

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.

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

ECO-MATE,PLUG,
SIZE 18,23POS,SOCKET.

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | RT061823S*H* | B2 |

SCALE: NONE SHEET 1 OF 1

TITLE: ECO-MATE,PLUG, SIZE 18,23POS,SOCKET.
DWG NO: RT061823S*H*
REV: B2
SH: 1
OF: 1

# **ecomate® RM/RSSM/Aquarius™** - Contact Size 16 Options

| Crimp Contacts, Machined | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| MP14M23F | MS14M23F | 14 | 2.0-2.5 | Gold Flash |
| MP14M23G5 | MS14M23G5 | 14 | 2.0-2.5 | Gold 5µ" |
| MP14M23G10 | MS14M23G10 | 14 | 2.0-2.5 | Gold 10µ" |
| MP14M23G15 | MS14M23G15 | 14 | 2.0-2.5 | Gold 15µ" |
| MP14M23G30 | MS14M23G30 | 14 | 2.0-2.5 | Gold 30µ" |
| MP16M23F | MS16M23F | 18-16 | 0.75-1.5 | Gold Flash |
| MP16M23G5 | MS16M23G5 | 18-16 | 0.75-1.5 | Gold 5µ" |
| MP16M23G10 | MS16M23G10 | 18-16 | 0.75-1.5 | Gold 10µ" |
| MP16M23G15 | MS16M23G15 | 18-16 | 0.75-1.5 | Gold 15µ" |
| MP16M23G30 | MS16M23G30 | 18-16 | 0.75-1.5 | Gold 30µ" |
| MP20M23F | MS20M23F | 22-20 | 0.34-0.50 | Gold Flash |
| MP20M23G5 | MS20M23G5 | 22-20 | 0.34-0.50 | Gold 5µ" |
| MP20M23G10 | MS20M23G10 | 22-20 | 0.34-0.50 | Gold 10µ" |
| MP20M23G15 | MS20M23G15 | 22-20 | 0.34-0.50 | Gold 15µ" |
| MP20M23G30 | MS20M23G30 | 22-20 | 0.34-0.50 | Gold 30µ" |
| MP24M23F | MS24M23F | 26-24 | 0.14-0.25 | Gold Flash |
| MP24M23G5 | MS24M23G5 | 26-24 | 0.14-0.25 | Gold 5µ" |
| MP24M23G10 | MS24M23G10 | 26-24 | 0.14-0.25 | Gold 10µ" |
| MP24M23G15 | MS24M23G15 | 26-24 | 0.14-0.25 | Gold 15µ" |
| MP24M23G30 | MS24M23G30 | 26-24 | 0.14-.025 | Gold 30µ" |

| Crimp Contacts, Stamped & Formed | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| SP14M2F | SS14M2F | 14 | 2.0-2.5 | Gold Flash |
| SP14M2G5 | SS14M2G5 | 14 | 2.0-2.5 | Gold 5µ" |
| SP14M2G10 | SS14M2G10 | 14 | 2.0-2.5 | Gold 10µ" |
| SP14M2G15 | SS14M2G15 | 14 | 2.0-2.5 | Gold 15µ" |
| SP14M2G30 | SS14M2G30 | 14 | 2.0-2.5 | Gold 30µ" |
| SP16M2F | SS16M2F | 18-16 | 0.75-1.5 | Gold Flash |
| SP16M2G5 | SS16M2G5 | 18-16 | 0.75-1.5 | Gold 5µ" |
| SP16M2G10 | SS16M2G10 | 18-16 | 0.75-1.5 | Gold 10µ" |
| SP16M2G15 | SS16M2G15 | 18-16 | 0.75-1.5 | Gold 15µ" |
| SP16M2G30 | SS16M2G30 | 18-16 | 0.75-1.5 | Gold 30µ" |
| SP20M2F | SS20M2F | 22-20 | 0.34-0.50 | Gold Flash |
| SP20M2G5 | SS20M2G5 | 22-20 | 0.34-0.50 | Gold 5µ" |
| SP20M2G10 | SS20M2G10 | 22-20 | 0.34-0.50 | Gold 10µ" |
| SP20M2G15 | SS20M2G15 | 22-20 | 0.34-0.50 | Gold 15µ" |
| SP20M2G30 | SS20M2G30 | 22-20 | 0.34-0.50 | Gold 30µ" |
| SP24M2F | SS24M2F | 26-24 | 0.14-0.25 | Gold Flash |
| SP24M2G5 | SS24M2G5 | 26-24 | 0.14-0.25 | Gold 5µ" |
| SP24M2G10 | SS24M2G10 | 26-24 | 0.14-0.25 | Gold 10µ" |
| SP24M2G15 | SS24M2G15 | 26-24 | 0.14-0.25 | Gold 15µ" |
| SP24M2G30 | SS24M2G30 | 26-24 | 0.14-0.25 | Gold 30µ" |

| Tooling, Machined | |
|---|---|
| Part Number | Description |
| QXRT16 | Contact Extraction Tool, #16 (Ø 1.6) Contact |
| MFX-3959 | Hand Crimp Tool for Machined Contacts |
| MFX-3960 | Pneumatic Crimp Tool for Machined Contact |

| 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, Stamped & Formed Contact |
| | |

| Plating Options, All | |
|---|---|
| Symbol | Plating |
| T | Tin Plated (for Stamped & Formed Contacts) |
| S | Silver Plated 5Um (for Machined Contacts) |
| F | Gold Plated |
| G5 | Gold Plated (Thickness 5µ") |
| G10 | Gold Plated (Thickness 10µ") |
| G15 | Gold Plated (Thickness 15µ") |
| G30 | Gold Plated (Thickness 30µ") |

| Misc Tooling, All | |
|---|---|
| Part Number | Description |
| CA-4020-59 | Sealing Plug, Size 16 & 20 |
| | |

| Standard Quantity Order Options | |
|---|---|
| Machined | Stamped & Formed |
| Bulk Package, 500 Pieces | Reel, 3000 Pieces |