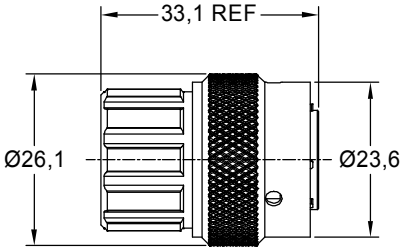
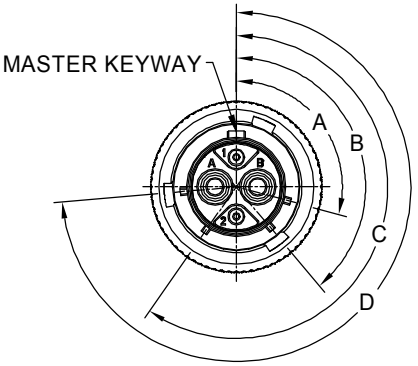
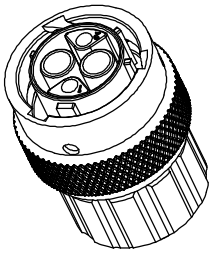
| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECO | DESCRIPTION | DATE | BY | APPR |
| B1 | - | RELEASED DRAWING | JUN-28-2014 | BEN | TOMMY |
| B2 | - | Update specifications | Jun-14-18 | Flan | Tommy |
| B3 | - | Update wire range | Oct-21-20 | Blink | Tommy |
| B4 | - | VOLTAGE UPDATE AND ADD KEY ICON | Nov-28-20 | Ronald | Tommy |



NOTES : (UNLESS OTHERWISE SPECIFIED)
1. MATERIAL :
   SHELL : ZINC ALLOY , NICKEL PLATED.
   INSERT : THERMOPLASTIC , UL94 V-0.
   END CAP : THERMOPLASTIC , UL94 V-0.
   COUPLING NUT : AL ALLOY , NICKEL PLATED.
   WAVE WASHER : STAINLESS STEEL.
   O-RING : NBR/SILICONE RUBBER.
   WIRE SEAL : SILICONE RUBBER.
   PLASTIC BUSHING : THERMOPLASTIC , UL94 V-0.
2. SPECIFICATIONS :
   2.1 RATED CURRENT :
      2.1.1 2.5mm CONTACT 23A (MAX).
      2.1.2 20# CONTACT 5A (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 : 2.5mm & 20# CONTACTS.
4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.
5. CONTACT SIZE AND REAR SEAL WIRE RANGE :

| CONTACT SIZE | MIN. INSUL O.D. | MAX. INSUL O.D. | WIRE RANGE |
|---|---|---|---|
| 2.5mm | Ø2.7mm | Ø4.3mm | 14 - 12AWG |
| B3 20# | Ø1.2mm | Ø2.6mm | 30 - 20AWG |

| KEY POS | PART NUMBER | | A | B | C | D |
|---|---|---|---|---|---|---|
| | -40°C ~ 105°C | -40°C ~ 125°C | | | | |
| N | RT06122SNHEC | RT06122SNHEC03 | 105° | 140° | 215° | 265° |
| W | RT06122SWHEC | RT06122SWHEC03 | 60° | 140° | 215° | 265° |
| X | RT06122SXHEC | RT06122SXHEC03 | 105° | 155° | 215° | 265° |
| Y | RT06122SYHEC | RT06122SYHEC03 | 105° | 140° | 225° | 265° |
| Z | RT06122SZHEC | RT06122SZHEC03 | 105° | 140° | 215° | 295° |

| | 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 ASSY:

| SIGNATURES | | DATE |
|---|---|---|
| DRAWN: | Ronald | Nov-28-20 |
| CHECKED: | Flan | Nov-29-20 |
| ENGINEER: | | |
| APPROVAL: | Tommy | Nov-30-20 |
| CUSTOMER: | | |

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Amphenol

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

ECOMATE RM,PLUG,
SIZE 12,2POS,SOCKET,END CAP.

| SIZE | TYPE | DWG NO: | REVISION |
|---|---|---|---|
| B | C- | RT06122S*HECx | B4 |

SCALE: NONE SHEET 1 OF 1

TITLE: ECOMATE RM,PLUG, SIZE 12,2POS,SOCKET,END CAP.
DWG NO: RT06122S*HECx
REV: B4
SH: 1
OF: 1

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# **ecomate® RM/RSSM/Aquarius™** - Contact Size 20 Options

| Crimp Contacts, Machined | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| MP20W23F | MS20W23F | 22-20 | 0.34-0.50 | Gold Flash |
| MP20W23G5 | MS20W23G5 | 22-20 | 0.34-0.50 | Gold 5µ" |
| MP20W23G10 | MS20W23G10 | 22-20 | 0.34-0.50 | Gold 10µ" |
| MP20W23G15 | MS20W23G15 | 22-20 | 0.34-0.50 | Gold 15µ" |
| MP20W23G30 | MS20W23G30 | 22-20 | 0.34-0.50 | Gold 30µ" |
| MP24W23F | MS24W23F | 26-24 | 0.13-0.25 | Gold Flash |
| MP24W23G5 | MS24W23G5 | 26-24 | 0.13-0.25 | Gold 5µ" |
| MP24W23G10 | MS24W23G10 | 26-24 | 0.13-0.25 | Gold 10µ" |
| MP24W23G15 | MS24W23G15 | 26-24 | 0.13-0.25 | Gold 15µ" |
| MP24W23G30 | MS24W23G30 | 26-24 | 0.13-0.25 | Gold 30µ" |
| MP28W23F | MS28W23F | 30-28 | 0.05-0.08 | Gold Flash |
| MP28W23G5 | MS28W23G5 | 30-28 | 0.05-0.08 | Gold 5µ" |
| MP28W23G10 | MS28W23G10 | 30-28 | 0.05-0.08 | Gold 10µ" |
| MP28W23G15 | MS28W23G15 | 30-28 | 0.05-0.08 | Gold 15µ" |
| MP28W23G30 | MS28W23G30 | 30-28 | 0.05-0.08 | Gold 30µ" |

| Crimp Contacts, Stamped & Formed | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| SP20W2F | SS20W2F | 22-20 | 0.34-0.50 | Gold Flash |
| SP20W2G5 | SS20W2G5 | 22-20 | 0.34-0.50 | Gold 5µ" |
| SP20W2G10 | SS20W2G10 | 22-20 | 0.34-0.50 | Gold 10µ" |
| SP20W2G15 | SS20W2G15 | 22-20 | 0.34-0.50 | Gold 15µ" |
| SP20W2G30 | SS20W2G30 | 22-20 | 0.34-0.50 | Gold 30µ" |
| SP24W2F | SS24W2F | 26-24 | 0.14-0.25 | Gold Flash |
| SP24W2G5 | SS24W2G5 | 26-24 | 0.14-0.25 | Gold 5µ" |
| SP24W2G10 | SS24W2G10 | 26-24 | 0.14-0.25 | Gold 10µ" |
| SP24W2G15 | SS24W2G15 | 26-24 | 0.14-0.25 | Gold 15µ" |
| SP24W2G30 | SS24W2G30 | 26-24 | 0.14-0.25 | Gold 30µ" |
| SP28W2F | SS28W2F | 30-28 | 0.05-0.08 | Gold Flash |
| SP28W2G5 | SS28W2G5 | 30-28 | 0.05-0.08 | Gold 5µ" |
| SP28W2G10 | SS28W2G10 | 30-28 | 0.05-0.08 | Gold 10µ" |
| SP28W2G15 | SS28W2G15 | 30-28 | 0.05-0.08 | Gold 15µ" |
| SP28W2G30 | SS28W2G30 | 30-28 | 0.05-0.08 | Gold 30µ" |

| Tooling, Machined | |
|---|---|
| Part Number | Description |
| QXRT20 | Contact Extraction Tool, #20 (Ø 1.0) Contact |
| MFX-3959 | Hand Crimp Tool for Machined Contacts |
| MFX-3960 | Pneumatic Crimp Tool for Machined Contact |

| Tooling, Stamped & Formed | |
|---|---|
| Part Number | Description |
| QXRT20 | Contact Extraction Tool, #20 (Ø 1.0) Contact |
| MFX-3958 | Hand Tool, Stamped & Formed Contact, Size 20, 20-28AWG |
| MFX-3957 | Crimp Die for 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 |



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# **ecomate® RM/RSSM/Aquarius™** - Contact Size 12 Options

| Crimp Contacts, Machined | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| N/A | | | | |

| Crimp Contacts, Stamped & Formed | | | | |
|---|---|---|---|---|
| Part Number | | AWG | Wire Range (mm²) | Plating |
| Male | Female | | | |
| SP12A1T | SS12A1T | 14-12 | 2.5-3.5 | Tin |

| Tooling, Machined | |
|---|---|
| Part Number | Description |
| N/A | N/A |
| N/A | N/A |

| Tooling, Stamped & Formed | |
|---|---|
| Part Number | Description |
| QXRT12S | Contact Extraction Tool, 2.5mm Contact |
| MFX-3962 | Hand Tool, Stamped & Formed Contact, 2.5mm Contact |

| Plating Options, All | |
|---|---|
| Symbol | Plating |
| N/A | N/A |

| Misc Tooling, All | |
|---|---|
| Part Number | Description |
| CA-4012-59 | Sealing Plug, Size 12 |

| Standard Quantity Order Options | |
|---|---|
| Machined | Stamped & Formed |
| N/A | Reel, 1000 Pieces |



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