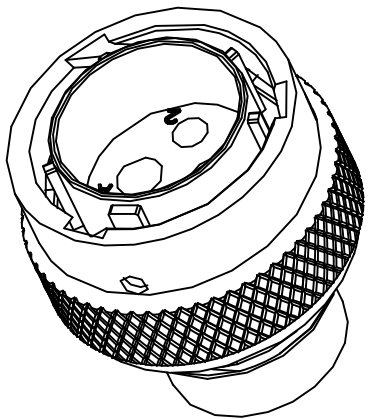
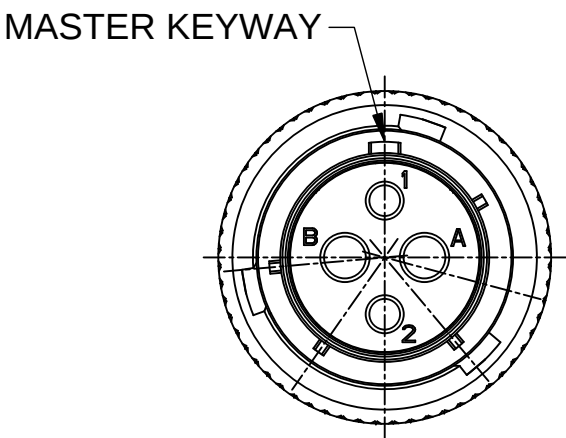
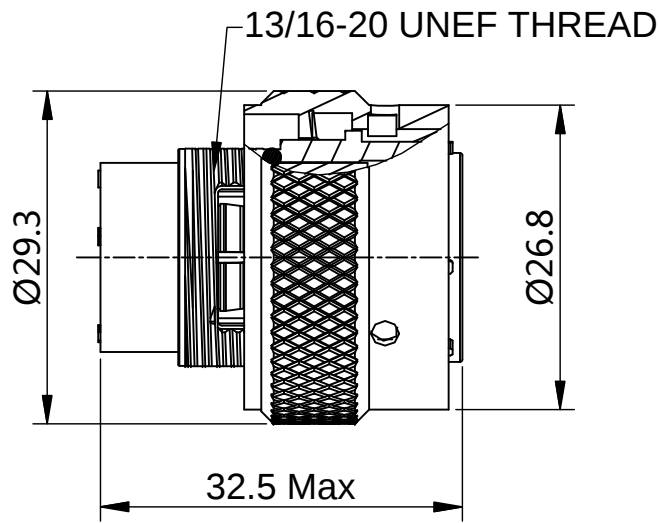


| REVISIONS |     |                  |             |     |       |
|-----------|-----|------------------|-------------|-----|-------|
| REV       | ECO | DESCRIPTION      | DATE        | BY  | APPR  |
| B1        | -   | RELEASED DRAWING | JUN-23-2014 | BEN | TOMMY |



NOTES : (UNLESS OTHERWISE SPECIFIED)

- MATERIAL :  
SHELL : ZINC ALLOY , NICKEL PLATED.  
INSERT : THERMOPLASTIC , UL94 V-0.  
COULPING NUT : AL ALLOY, NICKEL PLATED.  
O-RING : NBR.  
WAVE WASHER : STAINLESS STEEL.
- SPECIFICATIONS :
  - RATED CURRENT :
    - 16# CONTACT 13A (MAX).
    - 2.5mm CONATCT 23A(MAX).
  - RATED VOLTAGE : 350V ( AC/DC ) .
  - OPERATING TEMPERATURE : -40°C ~ +105°C.
  - DIELECTRIC WITHSTANDING VOLTAGE : LESS THAN 2 MILLIAMPS CURRENT LEAKAGE@2000 VOLTS AC.
  - INSULATION RESISTANCE : 5000 MEGOHMS MIN.
  - IP--CLASS : IP67.
  - MATING CYCLES DURABILITY : 500 CYCLES MIN.
  - ROHS COMPLIANT.
- SUITABLE CONTACTS : 16# & 2.5mm CONTACTS.
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| KEY POS | PART NUMBER |
|---------|-------------|
| N       | RT06142PNH  |
| W       | RT06142PWH  |
| X       | RT06142PXH  |
| Y       | RT06142PYH  |
| Z       | RT06142PZH  |

|                                                                                                                                                                                                                                                                        |             |                                                                                                                                                                                                                                                                                           |  |                                      |  |                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEE PART NUMBER                                                                                                                                                                                                                                                        |             | CHART                                                                                                                                                                                                                                                                                     |  | DESCRIPTION                          |  | ITEM                                                                                                                                                                              |
| QUANTITY                                                                                                                                                                                                                                                               | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                               |  |                                      |  | ITEM                                                                                                                                                                              |
| MATERIALS LIST                                                                                                                                                                                                                                                         |             |                                                                                                                                                                                                                                                                                           |  |                                      |  |                                                                                                                                                                                   |
| UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>3) Note reference =  |             | SIGNATURES<br>DRAWN: BEN<br>CHECKED:<br>ENGINEER:<br>APPROVAL:                                                                                                                                                                                                                            |  | DATE<br>JUN-23-2014                  |  | <br>Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036 |
| MATERIAL SPECIFICATIONS:                                                                                                                                                                                                                                               |             | CUSTOMER:                                                                                                                                                                                                                                                                                 |  | ECO-MATE,PLUG,<br>SIZE 14,2POS,PIN.  |  |                                                                                                                                                                                   |
| PROCESS SPECIFICATIONS:                                                                                                                                                                                                                                                |             | THIS DRAWING IS SUPPLIED FOR<br>INFORMATION ONLY. DESIGN FEATURES,<br>SPECIFICATIONS AND PERFORMANCE DATA<br>SHOWN HEREON ARE THE PROPERTY OF<br>THE AMPHENOL CORPORATION. NO RIGHTS<br>OF REPRODUCTION ARE IMPLIED. ALL<br>DIMENSIONS ARE SUBJECT TO NORMAL<br>MANUFACTURING VARIATIONS. |  | SIZE<br>B C-                         |  |                                                                                                                                                                                   |
| NEXT ASSY:                                                                                                                                                                                                                                                             |             | SCALE: NONE                                                                                                                                                                                                                                                                               |  | DWG NO: RT06142P*H<br>REVISION<br>B1 |  |                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                        |             |                                                                                                                                                                                                                                                                                           |  | SHEET 1 OF 1                         |  |                                                                                                                                                                                   |

TITLE: ECO-MATE,PLUG, SIZE 14,2POS,PIN.  
DWG NO: RT06142P\*H  
REV: B1  
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"  |

| 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    |

| Plating Options, All |                                            |
|----------------------|--------------------------------------------|
| Symbol               | Plating                                    |
| T                    | Tin Plated (for Stamped & Formed Contacts) |
| S                    | Silver Plated 50µm (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")               |

| 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, 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                    |
|                           |                                                        |

| 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 |

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

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

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

| Plating Options, All |         |
|----------------------|---------|
| Symbol               | Plating |
| N/A                  | 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, Stamped & Formed |                                                    |
|---------------------------|----------------------------------------------------|
| Part Number               | Description                                        |
| QXRT12S                   | Contact Extraction Tool, 2.5mm Contact             |
| MFx-3962                  | Hand Tool, Stamped & Formed Contact, 2.5mm Contact |

| 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 |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[RT06142PNH](#)