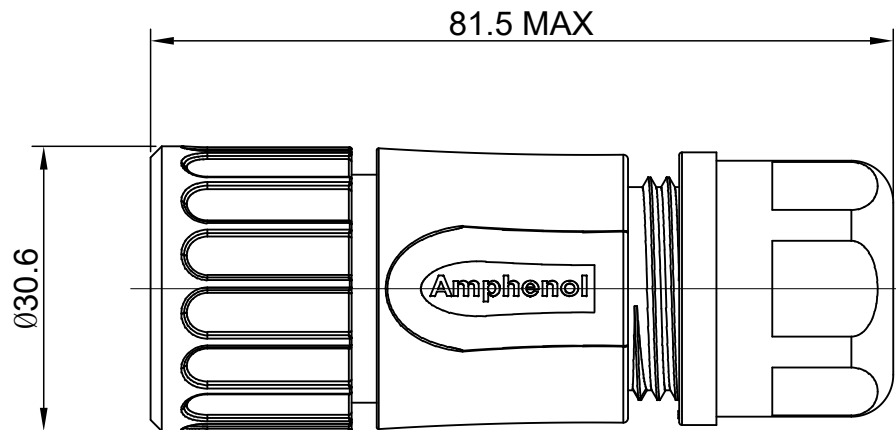
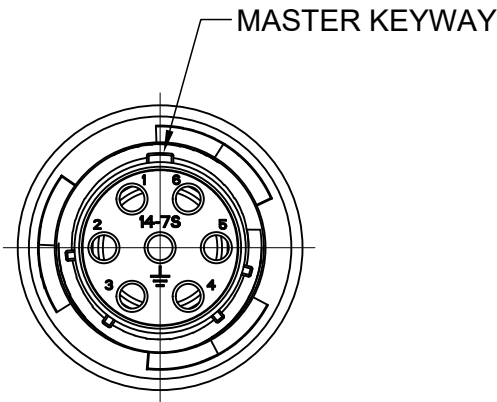
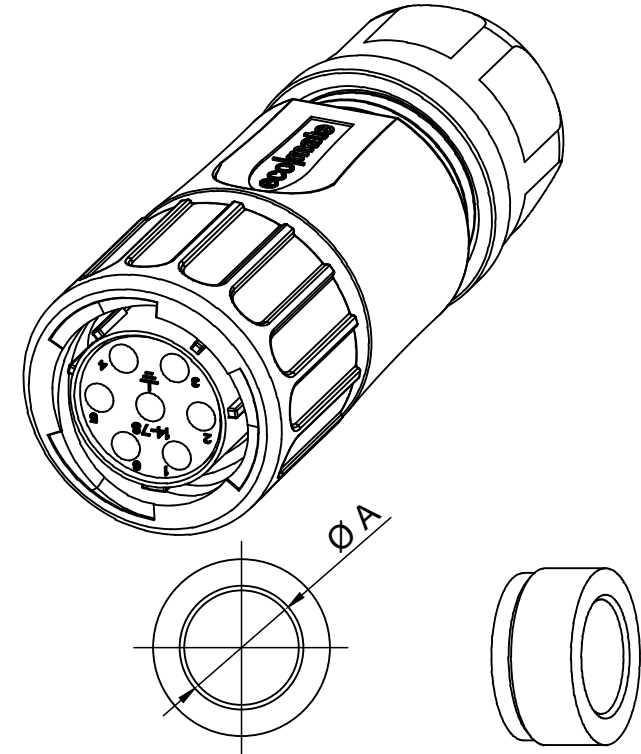


| REVISIONS |     |                       |             |       |       |
|-----------|-----|-----------------------|-------------|-------|-------|
| REV       | ECO | DESCRIPTION           | DATE        | BY    | APPR  |
| A1        | --  | RELEASED DRAWING      | Aug-09-16   | JARRY | TOMMY |
| A2        | --  | UPDATE NOTES          | Jun-22-2017 | Nick  | TOMMY |
| A3        | --  | UPDATE CABLE OD RANGE | Aug-24-2017 | Nick  | TOMMY |
| A4        | --  | UPDATE CABLE OD RANGE | Feb-07-2017 | Nick  | TOMMY |
| A5        | --  | UPDATE DRAWING        | Mar-20-2018 | White | Tommy |



- NOTES : (UNLESS OTHERWISE SPECIFIED)
- MATERIAL :  
SHELL : THERMOPLASTIC , UL94 V-0.  
INSERT : THERMOPLASTIC , UL94 V-0.  
COUPLING NUT : THERMOPLASTIC , UL94 V-0.  
O-RING : NBR OR SILICONE RUBBER.  
WASHER : SILICONE RUBBER.  
BACK SHELL : THERMOPLASTIC , UL94 V-0.  
CLAMP NUT : THERMOPLASTIC , UL94 V-0.  
CLAMP RING : THERMOPLASTIC , UL94 V-0.  
CABLE SEAL : NBR OR SILICONE RUBBER.
  - SPECIFICATIONS :  
2.1 RATED CURRENT : 13A (MAX).  
2.2 RATED VOLTAGE : 500V(AC/DC).  
2.3 OPERATING TEMPERATURE : SEE TABLE .  
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 AND IP69K IN THE MATED CONDITION.  
2.7 MATING CYCLES DURABILITY : 500 CYCLES MIN.  
2.8 RoHS COMPLIANT.
  - SUITABLE CONTACTS : 16# CONTACT.
  - ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| DIMENSION ØA | CABLE OD RANGE |
|--------------|----------------|
| 12.3MM       | 6.0-12.0MM     |
| 14.3MM       | 9.0-14.0MM     |

| KEY | PART NUMBER    |                |
|-----|----------------|----------------|
|     | -40°C ~ +105°C | -40°C ~ +125°C |
| N   | RTS6BS14N7S    | RTS6BS14N7S03  |

| 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: White<br>CHECKED: Tod<br>ENGINEER:<br>APPROVAL: Tommy<br>MATERIAL SPECIFICATIONS:<br>PROCESS SPECIFICATIONS:<br>NEXT ASSY: | DATE<br>Mar-20-2018<br>Mar-20-2018<br>Mar-20-2018<br>Mar-20-2018 |
|                                                                                                                                                                                  |             | Amphenol<br>Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036                                            |                                                                  |
|                                                                                                                                                                                  |             | ECO-MATE,PLUG,BACK SHELL,<br>SIZE 14,7POS,SOCKET                                                                                                |                                                                  |
|                                                                                                                                                                                  |             | SIZE<br>B C-                                                                                                                                    | REVISION<br>A5                                                   |
|                                                                                                                                                                                  |             | DWG NO:<br>RTS6BS14*7Sxx                                                                                                                        |                                                                  |
|                                                                                                                                                                                  |             | SCALE:<br>NONE                                                                                                                                  | SHEET 1 OF 1                                                     |

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

| Machined, Crimp Contacts |            |       |                  |            |
|--------------------------|------------|-------|------------------|------------|
| 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 | .75-1.5          | Gold Flash |
| MP16M23G5                | MS16M23G5  | 18-16 | .75-1.5          | Gold 5µ"   |
| MP16M23G10               | MS16M23G10 | 18-16 | .75-1.5          | Gold 10µ"  |
| MP16M23G15               | MS16M23G15 | 18-16 | .75-1.5          | Gold 15µ"  |
| MP16M23G30               | MS16M23G30 | 18-16 | .75-1.5          | Gold 30µ"  |
| MP20M23F                 | MS20M23F   | 22-20 | .34-.50          | Gold Flash |
| MP20M23G5                | MS20M23G5  | 22-20 | .34-.50          | Gold 5µ"   |
| MP20M23G10               | MS20M23G10 | 22-20 | .34-.50          | Gold 10µ"  |
| MP20M23G15               | MS20M23G15 | 22-20 | .34-.50          | Gold 15µ"  |
| MP20M23G30               | MS20M23G30 | 22-20 | .34-.50          | Gold 30µ"  |
| MP24M23F                 | MS24M23F   | 26-24 | .14-.25          | Gold Flash |
| MP24M23G5                | MS24M23G5  | 26-24 | .14-.25          | Gold 5µ"   |
| MP24M23G10               | MS24M23G10 | 26-24 | .14-.25          | Gold 10µ"  |
| MP24M23G15               | MS24M23G15 | 26-24 | .14-.25          | Gold 15µ"  |
| MP24M23G30               | MS24M23G30 | 26-24 | .14-.25          | Gold 30µ"  |

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

| Plating Options |                                            |
|-----------------|--------------------------------------------|
| 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")               |

| Stamped & Formed, Crimp Contacts |           |       |                  |            |
|----------------------------------|-----------|-------|------------------|------------|
| 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 | .75-1.5          | Gold Flash |
| SP16M2G5                         | SS16M2G5  | 18-16 | .75-1.5          | Gold 5µ"   |
| SP16M2G10                        | SS16M2G10 | 18-16 | .75-1.5          | Gold 10µ"  |
| SP16M2G15                        | SS16M2G15 | 18-16 | .75-1.5          | Gold 15µ"  |
| SP16M2G30                        | SS16M2G30 | 18-16 | .75-1.5          | Gold 30µ"  |
| SP20M2F                          | SS20M2F   | 22-20 | .34-.50          | Gold Flash |
| SP20M2G5                         | SS20M2G5  | 22-20 | .34-.50          | Gold 5µ"   |
| SP20M2G10                        | SS20M2G10 | 22-20 | .34-.50          | Gold 10µ"  |
| SP20M2G15                        | SS20M2G15 | 22-20 | .34-.50          | Gold 15µ"  |
| SP20M2G30                        | SS20M2G30 | 22-20 | .34-.50          | Gold 30µ"  |
| SP24M2F                          | SS24M2F   | 22-20 | .14-.25          | Gold Flash |
| SP24M2G5                         | SS24M2G5  | 26-24 | .14-.25          | Gold 5µ"   |
| SP24M2G10                        | SS24M2G10 | 26-24 | .14-.25          | Gold 10µ"  |
| SP24M2G15                        | SS24M2G15 | 26-24 | .14-.25          | Gold 15µ"  |
| SP24M2G30                        | SS24M2G30 | 26-24 | .14-.25          | Gold 30µ"  |

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

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

**Amphenol Sine Systems**  
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[www.amphenol-sine.com](http://www.amphenol-sine.com)  
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