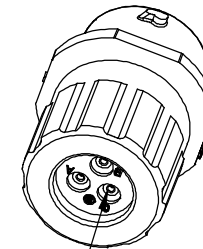
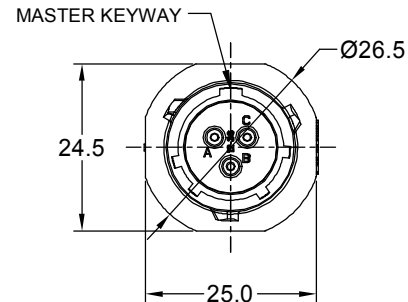
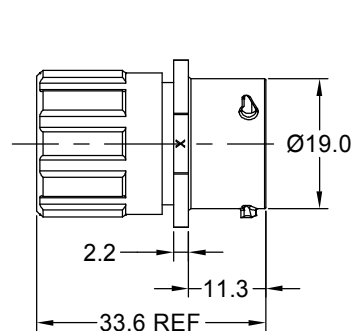


| REVISIONS |     |                  |           |       |       |
|-----------|-----|------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION      | DATE      | BY    | APPR  |
| A1        | -   | RELEASED DRAWING | Feb-24-21 | Blink | Tommy |



SEALING PLUGS CAN BE  
PURCHASED SEPARATELY

NOTES : (UNLESS OTHERWISE SPECIFIED)

- MATERIAL :  
SHELL : THERMOPLASTIC , UL94 V-0.  
INSERT : THERMOPLASTIC , UL94 V-0.  
O-RING : NBR OR SILICONE RUBBER.  
SEAL GASKET : NBR OR SILICONE RUBBER.  
END CAP : THERMOPLASTIC , UL94 V-0.  
PLASTIC RING:THERMOPLASTIC , UL94 V-0.  
WIRE SEAL : 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,  
WIRE SEALS FULLY POPULATED.  
2.7, MATING CYCLES DURABILITY : 500 CYCLES MIN.  
2.8, RoHS COMPLIANT.
- SUITABLE CONTACTS : 16# CONTACT.
- ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| CONTACT<br>SIZE | MIN. INSUL<br>O.D. | MAX. INSUL<br>O.D. | WIRE RANGE |
|-----------------|--------------------|--------------------|------------|
| 16#             | Ø2.0mm             | Ø3.2mm             | 14 - 24AWG |

| KEY | PART NUMBER    |                  |
|-----|----------------|------------------|
|     | -40°C ~ 105°C  | -40°C ~ 125°C    |
| N   | RTS1BS12N3SHEC | RTS1BS12N3SHEC03 |

| QUANTITY                             | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                          | ITEM |
|--------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| MATERIALS LIST                       |             |                                                                                                                                                                                                                                                                      |      |
| UNLESS OTHERWISE SPECIFIED           |             | SIGNATURES                                                                                                                                                                                                                                                           |      |
| 1) All dimensions are in metric(mm). |             | DATE                                                                                                                                                                                                                                                                 |      |
| 2) Tolerances are as follows:        |             | DRAWN: Blink Feb-24-2021                                                                                                                                                                                                                                             |      |
| 1 PL DEC ±0.30                       |             | CHECKED: Ram Feb-25-2021                                                                                                                                                                                                                                             |      |
| 2 PL DEC ±0.15                       |             | ENGINEER:                                                                                                                                                                                                                                                            |      |
| 3 PL DEC ±0.08                       |             | APPROVAL: Tommy Feb-25-2021                                                                                                                                                                                                                                          |      |
| 3) Note reference =                  |             | CUSTOMER:                                                                                                                                                                                                                                                            |      |
| MATERIAL SPECIFICATIONS:             |             | 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. |      |
| PROCESS SPECIFICATIONS:              |             | SCALE NONE                                                                                                                                                                                                                                                           |      |
| NEXT ASSY:                           |             | SHEET 1 OF 1                                                                                                                                                                                                                                                         |      |

**Amphenol**

Sine Systems - [www.amphenol-sine.com](http://www.amphenol-sine.com)  
44724 Morley Drive  
Clinton Township, MI 48036

ECO-MATE AQUARIUS,RECPTACLE,IN-LINE  
BACK SHELL,SIZE 12,3POS,SOCKET

| SIZE | TYPE | DWG NO.        | REVISION |
|------|------|----------------|----------|
| B    | C-   | RTS1BS12*3SHEC | A1       |

TITLE: ECO-MATE AQUARIUS,RECPTACLE,IN-LINE,BACK SHELL,SIZE 12,3POS,SOCKET  
DWG NO.: RTS1BS12\*3SHEC  
REV: A1  
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 |