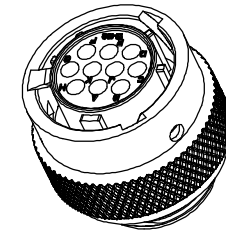
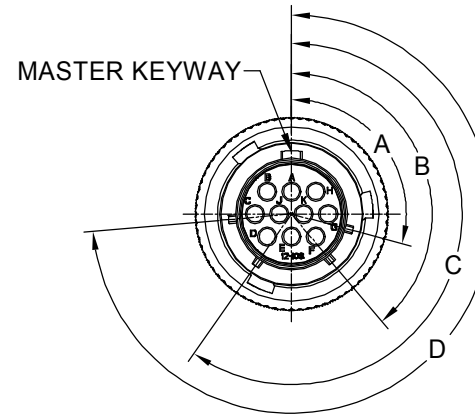
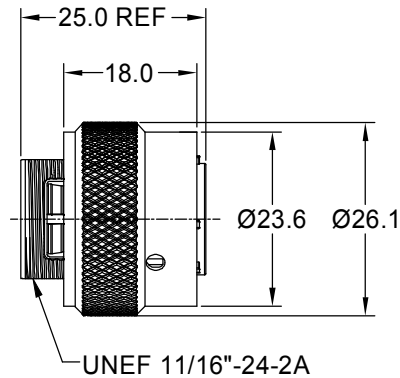


| REVISIONS |     |                                 |              |        |       |
|-----------|-----|---------------------------------|--------------|--------|-------|
| REV       | ECO | DESCRIPTION                     | DATE         | BY     | APPR  |
| B1        | -   | RELEASED DRAWING                | JULY-04-2014 | BEN    | TOMMY |
| B2        | -   | VOLTAGE UPDATE AND ADD KEY ICON | Dec-03-2020  | Ronald | 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 :

2.1.1 STAMPED CONTACT 5A (MAX).  
 2.1.2 MACHINED CONTACT 7.5A(MAX).

2.2 RATED VOLTAGE : 250V ( AC/DC ) .

2.3 OPERATING TEMPERATURE : SEE CHART.

2.4 DIELECTRIC WITHSTANDING VOLTAGE : LESS THAN  
 2 MILLIAMPS CURRENT LEAKAGE@1500 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 : 20# CONTACTS.

4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

| KEY POS | PART NUMBER   |                | A    | B    | C    | D    |
|---------|---------------|----------------|------|------|------|------|
|         | -40°C ~ 105°C | -40°C ~ 125°C  |      |      |      |      |
| N       | RT0W61210SNH  | RT0W61210SNH03 | 105° | 140° | 215° | 265° |
| W       | RT0W61210SWH  | RT0W61210SWH03 | 60°  | 140° | 215° | 265° |
| X       | RT0W61210SXH  | RT0W61210SXH03 | 105° | 155° | 215° | 265° |
| Y       | RT0W61210SYH  | RT0W61210SYH03 | 105° | 140° | 225° | 265° |
| Z       | RT0W61210SZH  | RT0W61210SZH03 | 105° | 140° | 215° | 295° |

|                                      |             |                                                                                                                                                                                                                                                                      |              |
|--------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| SEE PART NUMBER CHART                |             |                                                                                                                                                                                                                                                                      |              |
| QUANTITY                             | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                          | ITEM         |
| MATERIALS LIST                       |             |                                                                                                                                                                                                                                                                      |              |
| UNLESS OTHERWISE SPECIFIED           |             | SIGNATURES                                                                                                                                                                                                                                                           |              |
| 1) All dimensions are in metric(mm). |             | DRAWN: Ronald                                                                                                                                                                                                                                                        | Dec-03-2020  |
| 2) Tolerances are as follows:        |             | CHECKED: Ron                                                                                                                                                                                                                                                         | Dec-04-2020  |
| 1 PL DEC ±0.30                       |             | ENGINEER:                                                                                                                                                                                                                                                            |              |
| 2 PL DEC ±0.15                       |             | APPROVAL: Tommy                                                                                                                                                                                                                                                      | Dec-05-2020  |
| 3 PL DEC ±0.08                       |             | CUSTOMER:                                                                                                                                                                                                                                                            |              |
| 3) Note reference =                  |             | 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. |              |
| MATERIAL SPECIFICATIONS:             |             | ECOMATE RM, PLUG, SIZE 12, 10POS, SOCKET.                                                                                                                                                                                                                            |              |
| PROCESS SPECIFICATIONS:              |             | SIZE B                                                                                                                                                                                                                                                               | TYPE C-      |
| NEXT ASSY:                           |             | DWG NO: RT0W61210S*Hx                                                                                                                                                                                                                                                | REVISION B2  |
|                                      |             | SCALE NONE                                                                                                                                                                                                                                                           | SHEET 1 OF 1 |

TITLE: ECOMATE RM, PLUG, SIZE 12, 10POS, SOCKET. DWG NO: RT0W61210S\*Hx REV: B2 SH: 1 OF: 1

# ecomate® RM, RSSM and Aquarius™ Series

## Size 20 Contact & Tooling Options

| Machined, Crimp Contacts |            |                    |                  |            |
|--------------------------|------------|--------------------|------------------|------------|
| Part Number              |            | Contact Size (AWG) | Wire Range (mm²) | Plating    |
| Male                     | Female     |                    |                  |            |
| MP20W23F                 | MS20W23F   | 20-22AWG           | 0.34-0.50 mm²    | Gold Flash |
| MP20W23G5                | MS20W23G5  | 20-22AWG           | 0.34-0.50 mm²    | Gold 5µ"   |
| MP20W23G10               | MS20W23G10 | 20-22AWG           | 0.34-0.50 mm²    | Gold 10µ"  |
| MP20W23G15               | MS20W23G15 | 20-22AWG           | 0.34-0.50 mm²    | Gold 15µ"  |
| MP20W23G30               | MS20W23G30 | 20-22AWG           | 0.34-0.50 mm²    | Gold 30µ"  |
| MP24W23F                 | MS24W23F   | 24-26AWG           | 0.14-0.25 mm²    | Gold Flash |
| MP24W23G5                | MS24W23G5  | 24-26AWG           | 0.14-0.25 mm²    | Gold 5µ"   |
| MP24W23G10               | MS24W23G10 | 24-26AWG           | 0.14-0.25 mm²    | Gold 10µ"  |
| MP24W23G15               | MS24W23G15 | 24-26AWG           | 0.14-0.25 mm²    | Gold 15µ"  |
| MP24W23G30               | MS24W23G30 | 24-26AWG           | 0.14-0.25 mm²    | Gold 30µ"  |
| MP28W23F                 | MS28W23F   | 28-30AWG           | 0.05-0.08 mm²    | Gold Flash |
| MP28W23G5                | MS28W23G5  | 28-30AWG           | 0.05-0.08 mm²    | Gold 5µ"   |
| MP28W23G10               | MS28W23G10 | 28-30AWG           | 0.05-0.08 mm²    | Gold 10µ"  |
| MP28W23G15               | MS28W23G15 | 28-30AWG           | 0.05-0.08 mm²    | Gold 15µ"  |
| MP28W23G30               | MS28W23G30 | 28-30AWG           | 0.05-0.08 mm²    | Gold 30µ"  |

| Machined, Tooling |                                              |
|-------------------|----------------------------------------------|
| Part Number       | Description                                  |
| QXRT20            | Contact Extraction Tool, #20 (Ø 1.0) Contact |
| MF3-3959          | Hand Crimp Tool for Machined Contacts        |
| MF3-3960          | Pneumatic Crimp Tool for Machined 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")               |

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

| Stamped & Formed, Tooling |                                                        |
|---------------------------|--------------------------------------------------------|
| Part Number               | Description                                            |
| QXRT20                    | Contact Extraction Tool, #20 (Ø 1.0) Contact           |
| MF3-3958                  | Hand Tool, Stamped & Formed Contact, Size 20, 20-28AWG |
| MF3-3957                  | Crimp Die for Stamped & Formed Contact                 |

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

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