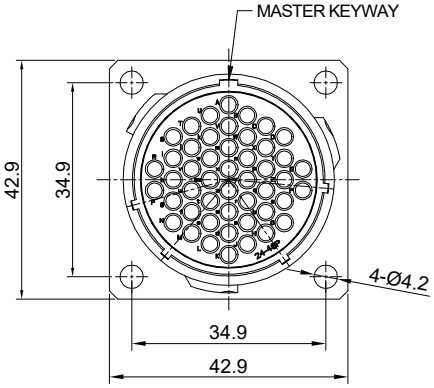
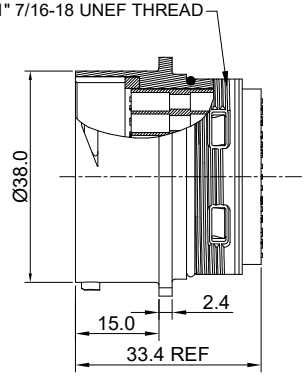
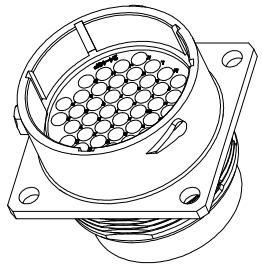
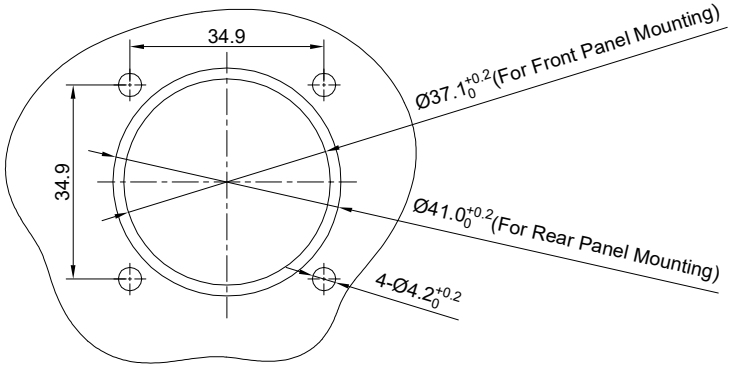
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASED DRAWING	Nov-23-2014	BEN	TOMMY
B2	-	CHANGE DIMENSION	MAR-20-2020	FLAN	TOMMY
B3	-	UPDATE RATED CURRENT	MAY-3-2023	JUN	TOMMY







NOTES: (UNLESS OTHERWISE SPECIFIED)
1. MATERIAL:
   SHELL: ZINC ALLOY, NICKEL PLATED.
   INSERT: THERMOPLASTIC, UL94 V-0.
   O-RING: NBR/SILICONE RUBBER.
   SEAL GASKET: NBR/SILICONE RUBBER.
2. SPECIFICATIONS:
   2.1 RATED CURRENT: 3A (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 CONNECTOR).
   2.7 MATING CYCLES DURABILITY: 500 CYCLES MIN.
   2.8 ROHS COMPLIANT.
3. SUITABLE CONTACTS : 16# CONTACTS.
4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.



PANEL CUT OUT REFERENCE

KEY POS	PART NUMBER	
	-40°C ~ 105°C	-40°C ~ 125°C
N	RT002448PNH	RT002448PNH03
W	RT002448PWH	RT002448PWH03
X	RT002448PXH	RT002448PXH03
Y	RT002448PYH	RT002448PYH03
Z	RT002448PZH	RT002448PZH03

	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 ASS'Y:

SIGNATURES		DATE
DRAWN:	JUN	MAY-3-2023
CHECKED:	JOE	MAY-5-2023
ENGINEER:		
APPROVAL:	TOMMY	MAY-8-2023
CUSTOMER:		

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.

Amphenol

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

ECO-MATE,RECEPTACLE,
SIZE 24,48POS, PIN.

SIZE	TYPE	DWG NO:	REVISION
B	C-	RT002448P*H*	B3

SCALE: NONE | SHEET 1 OF 1

TITLE: ECO-MATE,RECEPTACLE, SIZE 24,48POS, PIN.
DWG NO: RT002448P*H*
REV: B3
SH: 1
OF: 1

ecomate® RM, RSSM and Aquarius™ Series

Size 16 Contact & Tooling Options

Machined, Crimp Contacts				
Part Number		Contact Size (AWG)	Wire Range (mm²)	Plating
Male	Female			
MP14M23F	MS14M23F	14AWG	2.0-2.5mm²	Gold Flash
MP14M23G5	MS14M23G5	14AWG	2.0-2.5mm²	Gold 5µ"
MP14M23G10	MS14M23G10	14AWG	2.0-2.5mm²	Gold 10µ"
MP14M23G15	MS14M23G15	14AWG	2.0-2.5mm²	Gold 15µ"
MP14M23G30	MS14M23G30	14AWG	2.0-2.5mm²	Gold 30µ"
MP16M23F	MS16M23F	16-18AWG	0.75-1.5mm²	Gold Flash
MP16M23G5	MS16M23G5	16-18AWG	0.75-1.5mm²	Gold 5µ"
MP16M23G10	MS16M23G10	16-18AWG	0.75-1.5mm²	Gold 10µ"
MP16M23G15	MS16M23G15	16-18AWG	0.75-1.5mm²	Gold 15µ"
MP16M23G30	MS16M23G30	16-18AWG	0.75-1.5mm²	Gold 30µ"
MP20M23F	MS20M23F	20-22AWG	0.34-0.50mm²	Gold Flash
MP20M23G5	MS20M23G5	20-22AWG	0.34-0.50mm²	Gold 5µ"
MP20M23G10	MS20M23G10	20-22AWG	0.34-0.50mm²	Gold 10µ"
MP20M23G15	MS20M23G15	20-22AWG	0.34-0.50mm²	Gold 15µ"
MP20M23G30	MS20M23G30	20-22AWG	0.34-0.50mm²	Gold 30µ"
MP24M23F	MS24M23F	24-26AWG	0.14-0.25mm²	Gold Flash
MP24M23G5	MS24M23G5	24-26AWG	0.14-0.25mm²	Gold 5µ"
MP24M23G10	MS24M23G10	24-26AWG	0.14-0.25mm²	Gold 10µ"
MP24M23G15	MS24M23G15	24-26AWG	0.14-0.25mm²	Gold 15µ"
MP24M23G30	MS24M23G30	24-26AWG	0.14-.025mm²	Gold 30µ"

Stamped & Formed , Crimp Contacts				
Part Number		Contact Size (AWG)	Wire Range (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14AWG	2.0-2.5mm²	Gold Flash
SP14M2G5	SS14M2G5	14AWG	2.0-2.5mm²	Gold 5µ"
SP14M2G10	SS14M2G10	14AWG	2.0-2.5mm²	Gold 10µ"
SP14M2G15	SS14M2G15	14AWG	2.0-2.5mm²	Gold 15µ"
SP14M2G30	SS14M2G30	14AWG	2.0-2.5mm²	Gold 30µ"
SP16M2F	SS16M2F	16-18AWG	0.75-1.5mm²	Gold Flash
SP16M2G5	SS16M2G5	16-18AWG	0.75-1.5mm²	Gold 5µ"
SP16M2G10	SS16M2G10	16-18AWG	0.75-1.5mm²	Gold 10µ"
SP16M2G15	SS16M2G15	16-18AWG	0.75-1.5mm²	Gold 15µ"
SP16M2G30	SS16M2G30	16-18AWG	0.75-1.5mm²	Gold 30µ"
SP20M2F	SS20M2F	20-22AWG	0.34-0.50mm²	Gold Flash
SP20M2G5	SS20M2G5	20-22AWG	0.34-0.50mm²	Gold 5µ"
SP20M2G10	SS20M2G10	20-22AWG	0.34-0.50mm²	Gold 10µ"
SP20M2G15	SS20M2G15	20-22AWG	0.34-0.50mm²	Gold 15µ"
SP20M2G30	SS20M2G30	20-22AWG	0.34-0.50mm²	Gold 30µ"
SP24M2F	SS24M2F	24-26AWG	0.14-0.25mm²	Gold Flash
SP24M2G5	SS24M2G5	24-26AWG	0.14-0.25mm²	Gold 5µ"
SP24M2G10	SS24M2G10	24-26AWG	0.14-0.25mm²	Gold 10µ"
SP24M2G15	SS24M2G15	24-26AWG	0.14-0.25mm²	Gold 15µ"
SP24M2G30	SS24M2G30	24-26AWG	0.14-.025mm²	Gold 30µ"

Machined, Tooling	
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

Stamped & Formed, Tooling	
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

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	Bulk Package, 500 Pieces
Stamped & Formed	Reel, 3000 Pieces

ecomate® RM and RSSM Series
Size 16 PC Tail Contact & Tooling Options

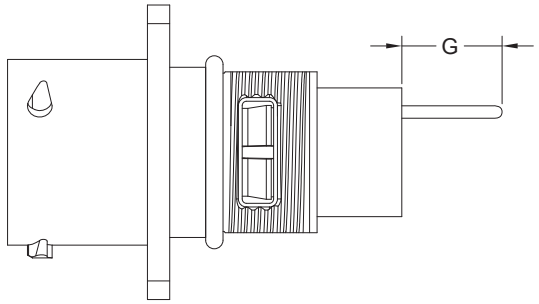
Machined, PC Tail Contacts				
Part Number		Contact Size (AWG)	Description	Plating
Male	Female			
MP16M12E06F	MS16M12E06F	16AWG	Short Version	Gold Flash
MP16M12E06G5	MS16M12E06G5	16AWG	Short Version	Gold 5µ"
MP16M12E06G10	MS16M12E06G10	16AWG	Short Version	Gold 10µ"
MP16M12E06G15	MS16M12E06G15	16AWG	Short Version	Gold 15µ"
MP16M12E06G30	MS16M12E06G30	16AWG	Short Version	Gold 30µ"
MP16M12E09F	MS16M12E09F	16AWG	Long Version	Gold Flash
MP16M12E09G5	MS16M12E09G5	16AWG	Long Version	Gold 5µ"
MP16M12E09G10	MS16M12E09G10	16AWG	Long Version	Gold 10µ"
MP16M12E09G15	MS16M12E09G15	16AWG	Long Version	Gold 15µ"
MP16M12E09G30	MS16M12E09G30	16AWG	Long Version	Gold 30µ"

Stamped & Formed , PC Tail Contacts				
Part Number		Contact Size (AWG)	Description	Plating
Male	Female			
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

PCB Contact Dimensions - Nominal Length G
(Size 20 PC Tail dimensions for ecomate® RM and ecomate® RSSM connectors only.)

Pin Contact						
Shell Size	MP20W12E06xx	MP20W12E09xx	MP16M12E04xx	MP16M12E06xx	MP10B12E05xx	MP10B12E08xx
10	4.0mm	9.5mm	4.0mm	8.0mm	-	-
12	4.0mm	9.5mm	4.0mm	8.0mm	5.0mm	-
14	4.0mm	9.5mm	4.0mm	8.0mm	5.2mm	-
16	4.0mm	9.5mm	4.0mm	8.0mm	-	-
18	-	9.5mm	4.0mm	8.0mm	-	-
20	-	9.5mm	4.0mm	8.0mm	-	-
24	-	-	-	3.9mm	-	-

Socket Contact						
Shell Size	MP20W12E06xx	MP20W12E09xx	MP16M12E04xx	MP16M12E06xx	MP10B12E05xx	MP10B12E08xx
10	3.3mm	8.5mm	2.4mm	3.0mm	-	-
12	3.3mm	8.5mm	2.4mm	3.0mm	-	-
14	3.3mm	8.5mm	2.4mm	3.0mm	-	-
16	3.3mm	8.5mm	2.4mm	3.0mm	-	-
18	--	8.5mm	2.4mm	-	-	-
20	--	8.5mm	2.4mm	-	-	-
24	-	-	-	-	-	-



Standard Quantity Order Options	
Machined	Bulk, 500 Pieces
Stamped & Formed	-

NOTE: For ecomate® Aquarius™ PC Tail options, see our **ecomate® Aquarius™ PCB Mount Jam Nut Receptacles Flyer** online at www.amphenol-sine.com.