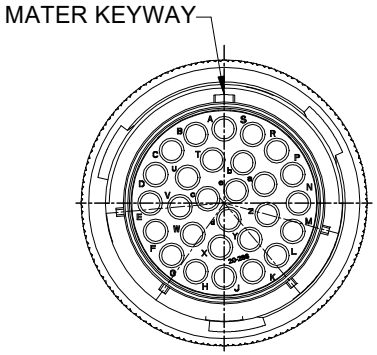
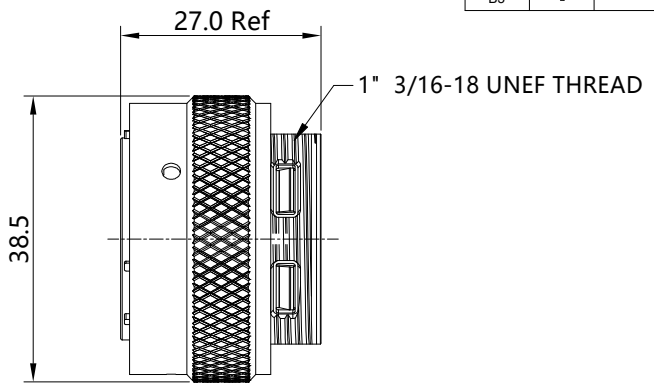
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASED DRAWING	NOV-29-2014	BEN	TOMMY
B2	-	UPDATE RATED VOLTAGE	DEC-21-2022	JUN	TOMMY
B3	-	UPDATE RATED CURRENT	MAY-3-2023	JUN	TOMMY







NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL:
   SHELL: ZINC ALLOY, NICKEL PLATED.
   INSERT: THERMOPLASTIC, UL94 V-0.
   COULPING NUT: AL ALLOY, NICKEL PLATED.
   O-RING: NBR/SILICONE RUBBER.
   WAVE WASHER: STAINLESS STEEL.
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.
   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.

KEY POS	PART NUMBER	
	-40°C ~ 105°C	-40°C ~ 125°C
N	RT062028SNH	RT062028SNH03
W	RT062028SWH	RT062028SWH03
X	RT062028SXH	RT062028SXH03
Y	RT062028SYH	RT062028SYH03
Z	RT062028SZH	RT062028SZH03

	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:		

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

ECO-MATE,PLUG,SIZE 20,
28POS, SOCKET.

SIZE	TYPE	DWG NO:	REVISION
B	C-	RT062028S*Hx	B3

SCALE: NONE SHEET 1 OF 1

TITLE: ECO-MATE,PLUG,SIZE 20,28POS, SOCKET
DWG NO: RT062028S*H2
REV: B3
SH: 1
OF: 1

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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

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