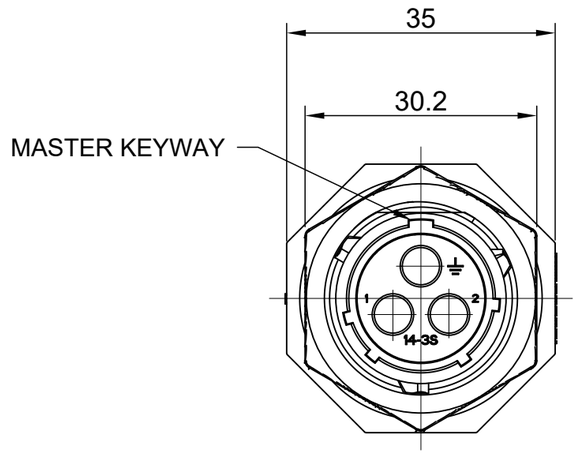
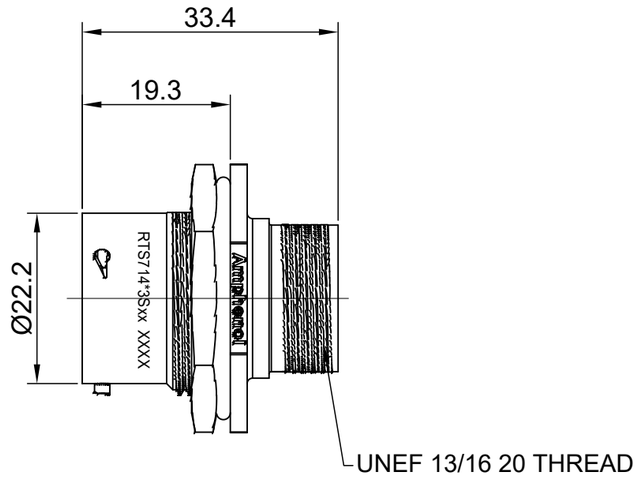
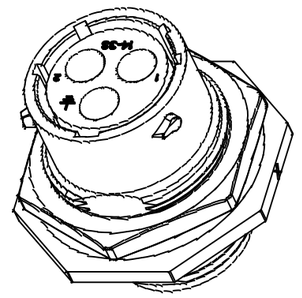
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	--	RELEASED DRAWING	Jun-15-18	White	TOMMY
A2	--	UPDATE NOTES	Oct-18-2018	Blink	Tommy







NOTES: (UNLESS OTHERWISE SPECIFIED)

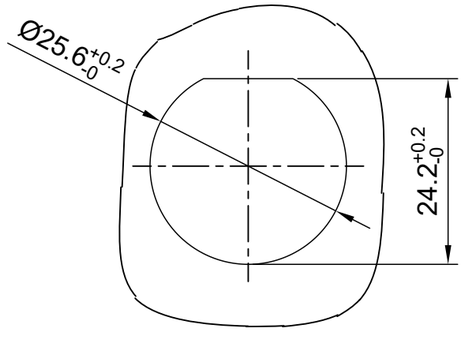
1. MATERIAL:
   SHELL: THERMOPLASTIC, UL94 V-0.
   INSERT: THERMOPLASTIC, UL94 V-0.
   O-RING: NBR OR SILICONE RUBBER.
   SEAL GASKET: NBR OR SILICONE RUBBER.
   JAM NUT: ALUMINIUM ALLOY, BLACK ANODIZING.
2. SPECIFICATIONS:
   2.1 RATED CURRENT: 45A (MAX).
   2.2 RATED VOLTAGE: 600V(AC/DC).
   2.3 OPERATING TEMPERATURE: SEE TABLE.
   2.4 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE@2500 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.
3. SUITABLE CONTACTS : 8# CONTACT.

A2

CONTACT SIZE	CONTACT PN	WIRE RANGE	CORD GRIP
8#	MS10A23x-25	16 - 14AWG	BACK SHELL
	MS10A23x-63	12 - 10AWG	
	MS10A23x-10	8 AWG	
	MS10A23x	12 - 10AWG	END CAP

IN THE CONTACT PN,"x" DENOTE DIFFERENT PLATING.

4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.



PANEL CUTOUT REFERENCE
THICKNESS:3.2MM (MAX)

KEY	PART NUMBER	
	-40°C ~ 105°C	-40°C ~ 125°C
N	RTS714N3S	RTS714N3S03

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:	Blink	Oct-18-2018
CHECKED:	Tod	Oct-18-2018
ENGINEER:		
APPROVAL:	Tommy	Oct-18-2018
CUSTOMER:		

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

ECO-MATE,RECEPTACLE, JAM NUT, SIZE 14,3POS,SOCKET

SIZE	TYPE	DWG NO:	REVISION
B	C-	RTS714*3Sxx	A2

SCALE: NONE SHEET 1 OF 1

TITLE: ECO-MATE,RECEPTACLE,JAM NUT,SIZE 14,3POS,SOCKET
DWG NO: RTS714*3Sxx
REV: A2
SH: 1
OF: 1

ecomate® RM, RSSM and Aquarius™ Series

Size 3.6mm Contact & Tooling Options (1403 Insert Arrangement)

Machined, Crimp Contacts						
Part Number		Contact Size (AWG)	Wire Range (mm²)	Male Contact For Use w End Cap	Female Contact For Use w End Cap	Plating
Male	Female					
MP10A23T-10	MS10A23T-10	8AWG	10.0 mm²	No	No	Tin
MP10A23S-10	MS10A23S-10	8AWG	10.0 mm²	No	No	Silver
MP10A23F-10	MS10A23F-10	8AWG	10.0 mm²	No	No	Gold Flash
MP10A23G5-10	MS10A23G5-10	8AWG	10.0 mm²	No	No	Gold 5µ"
MP10A23G10-10	MS10A23G10-10	8AWG	10.0 mm²	No	No	Gold 10µ"
MP10A23G15-10	MS10A23G15-10	8AWG	10.0 mm²	No	No	Gold 15µ"
MP10A23G30-10	MS10A23G30-10	8AWG	10.0 mm²	No	No	Gold 30µ"
MP10A23S-63	MS10A23S-63	10-12AWG	4.0-6.0 mm²	No	No	Silver
MP10A23F-63	MS10A23F-63	10-12AWG	4.0-6.0 mm²	No	No	Gold Flash
MP10A23S-63	MS10A23S-63W	10-12AWG	4.0-6.0 mm²	No	Yes	Silver
MP10A23F-63	MS10A23F-63W	10-12AWG	4.0-6.0 mm²	No	Yes	Gold Flash
MP10A23TL	MS10A23T	10-12AWG	3.0-6.0 mm²	Yes	Yes	Tin
MP10A23SL	MS10A23S	10-12AWG	3.0-6.0 mm²	Yes	Yes	Silver
MP10A23FL	MS10A23F	10-12AWG	3.0-6.0 mm²	Yes	Yes	Gold Flash
MP10A23G5L	MS10A23G5	10-12AWG	3.0-6.0 mm²	Yes	Yes	Gold 5µ"
MP10A23G10L	MS10A23G10	10-12AWG	3.0-6.0 mm²	Yes	Yes	Gold 10µ"
MP10A23G15L	MS10A23G15	10-12AWG	3.0-6.0 mm²	Yes	Yes	Gold 15µ"
MP10A23G30L	MS10A23G30	10-12AWG	3.0-6.0 mm²	Yes	Yes	Gold 30µ"
MP10A23S-25	MS10A23S-25	14-16AWG	1.5-2.5 mm²	No	No	Silver
MP10A23F-25	MS10A23F-25	14-16AWG	1.5-2.5 mm²	No	No	Gold Flash
MP10A23S-25	MS10A23S-25W	14-16AWG	1.5-2.5 mm²	No	Yes	Silver
MP10A23F-25	MS10A23F-25W	14-16AWG	1.5-2.5 mm²	No	Yes	Gold Flash

Machined, Tooling	
Part Number	Description
QXRT08	Contact Extraction Tool, # 8 (Ø 3.6mm) Contact
M300BT	Hand Crimper
WA27-300BT-EP	Pneumatic Crimper
TP968	Locator M3200BT and WA27-300BT-EP

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")