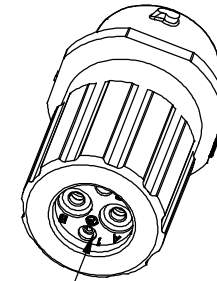
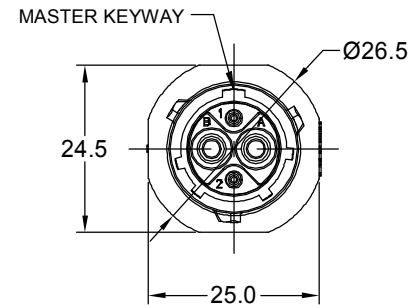
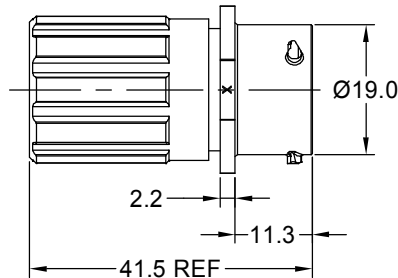


REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
A1	-	RELEASED DRAWING	Sep-03-2019	Ronald	Tommy
A2	-	UPDATE DESCRIPTION	Feb-24-21	Blink	Tommy



SEALING PLUGS CAN BE
PURCHASED SEPARATELY

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.
END CAP : THERMOPLASTIC , UL94 V-0.
PLASTIC RING:THERMOPLASTIC , UL94 V-0.
WIRE SEAL : SILICONE RUBBER.

2. SPECIFICATIONS :

- 2.1, RATED CURRENT : 2.5mm CONTACT: 23A (MAX).
20# CONTACT: 5A (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.

3. SUITABLE CONTACTS : 2.5mm CONTACT.

20# CONTACT.

4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	WIRE RANGE
2.5mm	Ø3.3mm	Ø4.3mm	14 - 12AWG
20#	Ø1.6mm	Ø2.6mm	30 - 20AWG

KEY	PART NUMBER	
	-40°C ~ 105°C	-40°C ~ 125°C
N	RTS1BS12N2PHEC	RTS1BS12N2PHEC03

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08 3) Note reference = SIGNATURES DRAWN: <u>Blink</u> CHECKED: <u>Flan</u> ENGINEER: APPROVAL: <u>Tommy</u> CUSTOMER: DATE <u>Feb-24-2021</u> <u>Feb-25-2021</u> <u>Feb-25-2021</u>			
MATERIALS LIST Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036			
ECO-MATE AQUARIUS,RECPTACLE,IN-LINE BACK SHELL,SIZE 12,2+2POS,PIN			
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.		SIZE TYPE DWG NO: B C- RTS1BS12*2PHEC	REVISION A2
NEXT ASSY:		SCALE NONE	SHEET 1 OF 1

ecomate® RM/RSSM/Aquarius™ - Contact Size 20 Options

Machined, Crimp Contacts				
Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	.34-.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	.34-.50	Gold 5µ"
MP20W23G10	MS20W23G10	22-20	.34-.50	Gold 10µ"
MP20W23G15	MS20W23G15	22-20	.34-.50	Gold 15µ"
MP20W23G30	MS20W23G30	22-20	.34-.50	Gold 30µ"
MP24W23F	MS24W23F	26-24	.13-.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	.13-.25	Gold 5µ"
MP24W23G10	MS24W23G10	26-24	.13-.25	Gold 10µ"
MP24W23G15	MS24W23G15	26-24	.13-.25	Gold 15µ"
MP24W23G30	MS24W23G30	26-24	.13-.25	Gold 30µ"
MP28W23F	MS28W23F	30-28	.05-.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	.05-.08	Gold 5µ"
MP28W23G10	MS28W23G10	30-28	.05-.08	Gold 10µ"
MP28W23G15	MS28W23G15	30-28	.05-.08	Gold 15µ"
MP28W23G30	MS28W23G30	30-28	.05-.08	Gold 30µ"

Stamped & Formed, Crimp Contacts				
Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	.34-.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	.34-.50	Gold 5µ"
SP20W2G10	SS20W2G10	22-20	.34-.50	Gold 10µ"
SP20W2G15	SS20W2G15	22-20	.34-.50	Gold 15µ"
SP20W2G30	SS20W2G30	22-20	.34-.50	Gold 30µ"
SP24W2F	SS24W2F	26-24	.14-.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	.14-.25	Gold 5µ"
SP24W2G10	SS24W2G10	26-24	.14-.25	Gold 10µ"
SP24W2G15	SS24W2G15	26-24	.14-.25	Gold 15µ"
SP24W2G30	SS24W2G30	26-24	.14-.25	Gold 30µ"
SP28W2F	SS28W2F	30-28	.05-.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	.05-.08	Gold 5µ"
SP28W2G10	SS28W2G10	30-28	.05-.08	Gold 10µ"
SP28W2G15	SS28W2G15	30-28	.05-.08	Gold 15µ"
SP28W2G30	SS28W2G30	30-28	.05-.08	Gold 30µ"

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

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

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")

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

Amphenol Sine Systems
 44724 Morley Drive
 Clinton Township, MI 48036 USA
www.amphenol-sine.com
 04/2021

ecomate® RM/RSSM/Aquarius™ - Contact Size 12 Options

Machined, Crimp Contacts				
Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
N/A				

Tooling, Machined	
Part Number	Description
N/A	N/A

Plating Options	
Symbol	Plating
N/A	N/A

Stamped & Formed, Crimp Contacts				
Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP12A1T	SS12A1T	14-12	2.5-3.5	Tin

Tooling, Stamped & Formed	
Part Number	Description
QXRT12S	Contact Extraction Tool, 2.5mm Contact
MFY-3962	Hand Tool, Stamped & Formed Contact, 2.5mm Contact

Standard Quantity Order Options	
Machined	Stamped & Formed
N/A	Reel, 1000 Pieces