



REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASED DRAWING	JULY-07-2014	BEN	TOMMY
B2	-	UPDATE DRAWING	Jun-22-2020	Ronald	Tommy
B3	-	UPDATE DRAWING	Jun-23-2020	Ronald	Tommy
B4	-	Add IP68 class	Dec-13-2021	Flan	Tommy

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL:

- SHELL: ZINC ALLOY, NICKEL PLATED.
- INSERT: THERMOPLASTIC, UL94 V-0.
- END CAP: THERMOPLASTIC, UL94 V-0.
- COUPLING NUT: AL ALLOY, NICKEL PLATED.
- WAVE WASHER: STAINLESS STEEL.
- O-RING: NBR/SILICONE RUBBER.
- WIRE SEAL: SILICONE RUBBER.
- PLASTIC BUSHING: THERMOPLASTIC, UL94 V-0.

2. SPECIFICATIONS:

2.1 RATED CURRENT:

- 2.1.1 20# 5A (MAX).
- 2.1.2 2.5mm 23A (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.

B4 2.6 IP--CLASS: IP68 (1M OF WATER FOR A PERIOD OF 24 HOURS, MATED CONDITION).

2.7 MATING CYCLES DURABILITY: 500 CYCLES(MIN).

2.8 RoHS COMPLIANT.

3. SUITABLE CONTACTS : 20# & 2.5mm CONTACTS.

4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

5. CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT SIZE	MIN. INSUL O.D.	MAX. INSUL O.D.	WIRE RANGE
20#	Ø1.6mm	Ø2.6mm	20 - 30AWG
2.5mm	Ø3.3mm	Ø4.3mm	10 - 14AWG

KEY POS	PART NUMBER		A	B	C	D
	-40°C ~ 105°C	-40°C ~ 125°C				
N	RT06122PNHEC	RT06122PNHEC03	105°	140°	215°	265°
W	RT06122PWHEC	RT06122PWHEC03	60°	140°	215°	265°
X	RT06122PXHEC	RT06122PXHEC03	105°	155°	215°	265°
Y	RT06122PYHEC	RT06122PYHEC03	105°	140°	225°	265°
Z	RT06122PZHEC	RT06122PZHEC03	105°	140°	215°	295°

SEE PART NUMBER CHART		DESCRIPTION		ITEM
QUANTITY	PART NUMBER			
MATERIALS LIST				
UNLESS OTHERWISE SPECIFIED		SIGNATURES		DATE
1) All dimensions are in metric(mm).		DRAWN: Flan		Dec-13-2021
2) Tolerances are as follows:		CHECKED: Orion		Dec-14-2021
1 PL DEC ±0.30		ENGINEER:		
2 PL DEC ±0.15		APPROVAL: Tommy		Dec-14-2021
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:		<p style="text-align: center;">Amphenol</p> <p>Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036</p> <p style="text-align: center;">EcoMate RM, PLUG, SIZE 12,2+2POS, PIN, END CAP.</p>		
PROCESS SPECIFICATIONS:		SIZE	TYPE	DWG NO.
NEXT ASSY:		B	C-	RT06122P*HEC*
		SCALE	NONE	REVISION B4
				SHEET 1 OF 1

TITLE: ECO-MATE PLUG, SIZE 12,2+2POS, PIN, END CAP.

DWG NO:

RT06122P*HEC*

REV: B4

SH: 1

OF: 1

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

Crimp Contacts, Machined				
Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
MP20W23F	MS20W23F	22-20	0.34-0.50	Gold Flash
MP20W23G5	MS20W23G5	22-20	0.34-0.50	Gold 5μ"
MP20W23G10	MS20W23G10	22-20	0.34-0.50	Gold 10μ"
MP20W23G15	MS20W23G15	22-20	0.34-0.50	Gold 15μ"
MP20W23G30	MS20W23G30	22-20	0.34-0.50	Gold 30μ"
MP24W23F	MS24W23F	26-24	0.13-0.25	Gold Flash
MP24W23G5	MS24W23G5	26-24	0.13-0.25	Gold 5μ"
MP24W23G10	MS24W23G10	26-24	0.13-0.25	Gold 10μ"
MP24W23G15	MS24W23G15	26-24	0.13-0.25	Gold 15μ"
MP24W23G30	MS24W23G30	26-24	0.13-0.25	Gold 30μ"
MP28W23F	MS28W23F	30-28	0.05-0.08	Gold Flash
MP28W23G5	MS28W23G5	30-28	0.05-0.08	Gold 5μ"
MP28W23G10	MS28W23G10	30-28	0.05-0.08	Gold 10μ"
MP28W23G15	MS28W23G15	30-28	0.05-0.08	Gold 15μ"
MP28W23G30	MS28W23G30	30-28	0.05-0.08	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

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")

Crimp Contacts, Stamped & Formed				
Part Number		AWG	Wire Range (mm ²)	Plating
Male	Female			
SP20W2F	SS20W2F	22-20	0.34-0.50	Gold Flash
SP20W2G5	SS20W2G5	22-20	0.34-0.50	Gold 5μ"
SP20W2G10	SS20W2G10	22-20	0.34-0.50	Gold 10μ"
SP20W2G15	SS20W2G15	22-20	0.34-0.50	Gold 15μ"
SP20W2G30	SS20W2G30	22-20	0.34-0.50	Gold 30μ"
SP24W2F	SS24W2F	26-24	0.14-0.25	Gold Flash
SP24W2G5	SS24W2G5	26-24	0.14-0.25	Gold 5μ"
SP24W2G10	SS24W2G10	26-24	0.14-0.25	Gold 10μ"
SP24W2G15	SS24W2G15	26-24	0.14-0.25	Gold 15μ"
SP24W2G30	SS24W2G30	26-24	0.14-0.25	Gold 30μ"
SP28W2F	SS28W2F	30-28	0.05-0.08	Gold Flash
SP28W2G5	SS28W2G5	30-28	0.05-0.08	Gold 5μ"
SP28W2G10	SS28W2G10	30-28	0.05-0.08	Gold 10μ"
SP28W2G15	SS28W2G15	30-28	0.05-0.08	Gold 15μ"
SP28W2G30	SS28W2G30	30-28	0.05-0.08	Gold 30μ"

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

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

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

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

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

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

Plating Options, All	
Symbol	Plating
N/A	N/A

Crimp Contacts, Stamped & Formed				
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
MFx-3962	Hand Tool, Stamped & Formed Contact, 2.5mm Contact

Misc Tooling, All	
Part Number	Description
CA-4012-59	Sealing Plug, Size 12

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