



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

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 : 700V AC/DC (POLLUTION DEGREE II). $\triangle B3$

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 : 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.
20#	Ø1.6mm	Ø2.6mm
2.5mm	Ø3.3mm	Ø4.3mm

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		SIGNATURES		DATE
QUANTITY	PART NUMBER	DRAWN: Ronald		Jun-23-2020
		CHECKED: Plan		Jun-24-2020
		ENGINEER:		
		APPROVAL: Tommy		Jun-24-2020
		CUSTOMER:		
		MATERIAL SPECIFICATIONS:		
		PROCESS SPECIFICATIONS:		
		NEXT ASSY:		
MATERIALS LIST				
<p>UNLESS OTHERWISE SPECIFIED</p> <p>1) All dimensions are in metric(mm).</p> <p>2) Tolerances are as follows: 1 PL DEC ±0.30 2 PL DEC ±0.15 3 PL DEC ±0.08</p> <p>3) Note reference = \triangle</p>				
Amphenol				
Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036				
ECO-MATE, PLUG, SIZE 12,2POS,PIN,END CAP.				
SIZE	TYPE	DWG NO:	REVISION	
B	C-	RT06122P*HEC*	B3	
SCALE	NONE		SHEET 1 OF 1	

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

DWG NO:

RT06122P*HEC*

REV: B3

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				

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

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

Tooling, Stamped & Formed	
Part Number	Description
QXRT12S	Contact Extraction Tool, 2.5mm Contact
MF3-3962	Hand Tool, Stamped & Formed Contact, 2.5mm Contact

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

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

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