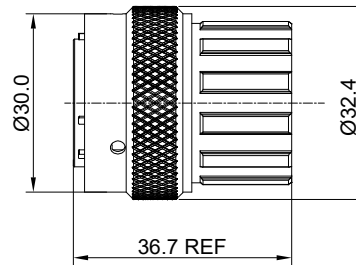
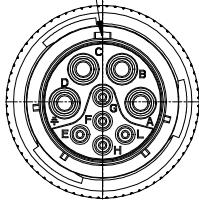


MASTER KEYWAY



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL:

- 1.1 SHELL: ZINC ALLOY, NICKEL PLATED.
- 1.2 INSERT: THERMOPLASTIC, UL94 V-0.
- 1.3 END CAP: THERMOPLASTIC, UL94 V-0.
- 1.4 COUPLING NUT: AL ALLOY, NICKEL PLATED.
- 1.5 WAVE WASHER: STAINLESS STEEL.
- 1.6 O-RING: NBR/SILICONE RUBBER.
- 1.7 WIRE SEAL: SILICONE RUBBER.

2. SPECIFICATIONS:

2.1 RATED CURRENT:

SIGNAL : 16# CONTACT 13A (MAX).
POWER : 2.5MM STAMPED CONTACT 23A MAX.
2.5MM MACHINED CONTACT 35A 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(MATED CONDITION).

2.7 MATING CYCLES DURABILITY: 500 CYCLES(MIN).

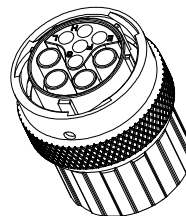
2.8 RoHS COMPLIANT.

3. SUITABLE CONTACTS : 16# & 2.5mm CONTACTS.

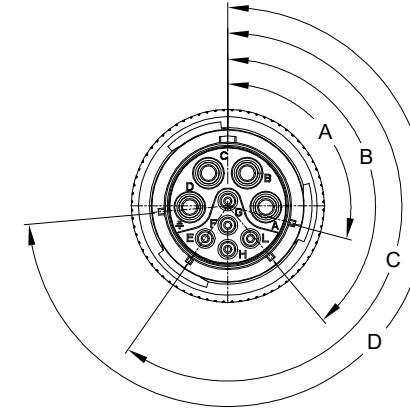
4. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.

5. CONTACT SIZE AND REAR SEAL WIRE RANGE:

CONTACT SIZE	MIN. INSUL O.D.	MAX. INS O.D.	WIRE RANGE
16#	Ø2.0mm	Ø3.2mm	14 - 24AWG
2.5mm	Ø3.3mm	Ø4.3mm	14 - 10AWG



REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
B1	-	RELEASED DRAWING	Nov-23-2014	Ben	Tommy
B2	-	UPDATE NOTES	Mar-21-2018	Nick	Tommy
B3	-	IMPROVEMENT OF STRUCTURE	Jul-11-2018	Blink	Tommy
B4	-	Update rated current and voltage	Mar-3-2021	Flan	Tommy



KEY POS	PART NUMBER		A	B	C	D
	-40°C ~ 105°C	-40°C ~ 125°C				
N	RT061609SNHEC	RT061609SNHEC03	105°	140°	215°	265°
W	RT061609SWHEC	RT061609SWHEC03	30°	140°	215°	265°
X	RT061609SXHEC	RT061609SXHEC03	105°	165°	215°	265°
Y	RT061609SYHEC	RT061609SYHEC03	105°	140°	225°	265°
Z	RT061609SZHEC	RT061609SZHEC03	105°	140°	215°	315°

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 2 PL DEC ±0.15 3 PL DEC ±0.08 3) Note reference =		SIGNATURES DRAWN: Flan Mar-4-2021 CHECKED: Blink Mar-4-2021 ENGINEER: APPROVAL: Tommy Mar-3-2021 CUSTOMER: 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:		Amphenol Sine Systems - www.amphenol-sine.com 44724 Morley Drive Clinton Township, MI 48036		
PROCESS SPECIFICATIONS:		EcoMate RM, PLUG, SIZE 16,9POS, SOCKET, END CAP.		
NEXT ASSY:		SIZE B C- DWG NO: RT061609S*HECxx REVISION B4		
		SCALE NONE SHEET 1 OF 1		

TITLE: EcoMate RM, PLUG, SIZE 16,9POS, SOCKET, END CAP. DWG NO: RT061609S*HECxx REV: B4 SH: 1 OF: 1

ecomate® RM/RSSM/Aquarius™ - Contact Size 16 Options

Crimp Contacts, Machined				
Part Number		AWG	Wire Range (mm²)	Plating
Male	Female			
MP14M23F	MS14M23F	14	2.0-2.5	Gold Flash
MP14M23G5	MS14M23G5	14	2.0-2.5	Gold 5µ"
MP14M23G10	MS14M23G10	14	2.0-2.5	Gold 10µ"
MP14M23G15	MS14M23G15	14	2.0-2.5	Gold 15µ"
MP14M23G30	MS14M23G30	14	2.0-2.5	Gold 30µ"
MP16M23F	MS16M23F	18-16	0.75-1.5	Gold Flash
MP16M23G5	MS16M23G5	18-16	0.75-1.5	Gold 5µ"
MP16M23G10	MS16M23G10	18-16	0.75-1.5	Gold 10µ"
MP16M23G15	MS16M23G15	18-16	0.75-1.5	Gold 15µ"
MP16M23G30	MS16M23G30	18-16	0.75-1.5	Gold 30µ"
MP20M23F	MS20M23F	22-20	0.34-0.50	Gold Flash
MP20M23G5	MS20M23G5	22-20	0.34-0.50	Gold 5µ"
MP20M23G10	MS20M23G10	22-20	0.34-0.50	Gold 10µ"
MP20M23G15	MS20M23G15	22-20	0.34-0.50	Gold 15µ"
MP20M23G30	MS20M23G30	22-20	0.34-0.50	Gold 30µ"
MP24M23F	MS24M23F	26-24	0.14-0.25	Gold Flash
MP24M23G5	MS24M23G5	26-24	0.14-0.25	Gold 5µ"
MP24M23G10	MS24M23G10	26-24	0.14-0.25	Gold 10µ"
MP24M23G15	MS24M23G15	26-24	0.14-0.25	Gold 15µ"
MP24M23G30	MS24M23G30	26-24	0.14-.025	Gold 30µ"

Tooling, Machined	
Part Number	Description
QXRT16	Contact Extraction Tool, #16 (Ø 1.6) 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 50µm (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 (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14	2.0-2.5	Gold Flash
SP14M2G5	SS14M2G5	14	2.0-2.5	Gold 5µ"
SP14M2G10	SS14M2G10	14	2.0-2.5	Gold 10µ"
SP14M2G15	SS14M2G15	14	2.0-2.5	Gold 15µ"
SP14M2G30	SS14M2G30	14	2.0-2.5	Gold 30µ"
SP16M2F	SS16M2F	18-16	0.75-1.5	Gold Flash
SP16M2G5	SS16M2G5	18-16	0.75-1.5	Gold 5µ"
SP16M2G10	SS16M2G10	18-16	0.75-1.5	Gold 10µ"
SP16M2G15	SS16M2G15	18-16	0.75-1.5	Gold 15µ"
SP16M2G30	SS16M2G30	18-16	0.75-1.5	Gold 30µ"
SP20M2F	SS20M2F	22-20	0.34-0.50	Gold Flash
SP20M2G5	SS20M2G5	22-20	0.34-0.50	Gold 5µ"
SP20M2G10	SS20M2G10	22-20	0.34-0.50	Gold 10µ"
SP20M2G15	SS20M2G15	22-20	0.34-0.50	Gold 15µ"
SP20M2G30	SS20M2G30	22-20	0.34-0.50	Gold 30µ"
SP24M2F	SS24M2F	26-24	0.14-0.25	Gold Flash
SP24M2G5	SS24M2G5	26-24	0.14-0.25	Gold 5µ"
SP24M2G10	SS24M2G10	26-24	0.14-0.25	Gold 10µ"
SP24M2G15	SS24M2G15	26-24	0.14-0.25	Gold 15µ"
SP24M2G30	SS24M2G30	26-24	0.14-0.25	Gold 30µ"

Tooling, Stamped & Formed	
Part Number	Description
QXRT16	Contact Extraction Tool, #16 (Ø 1.6) Contact
MFY-3954	Hand Tool, Stamped & Formed Contact, Size 16, 20-14AWG
MFY-3957	Crimp Die, 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 (mm²)	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 (mm²)	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