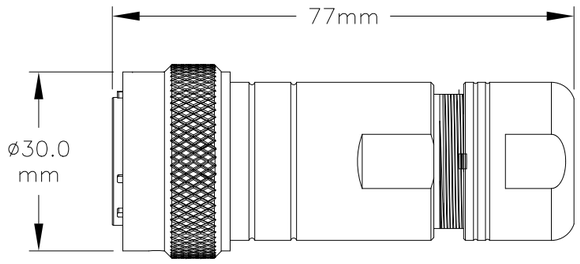
REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	APPR
01	-	RELEASE NEW DWG FORMAT	-	-	-
02	-	UPDATED TO NEW STYLE BACKSHELL	9/8/21	RO	RO
03	-	REPLACED WAGON WHEEL WITH SHIELDING CLIP	9/19/2022	RO	RO
04	-	UPDATED VOLTAGE	2/6/2023	RO	RO



ASSEMBLED VIEW

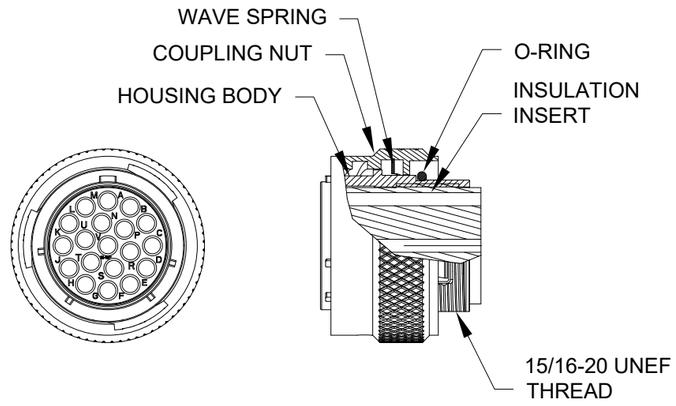
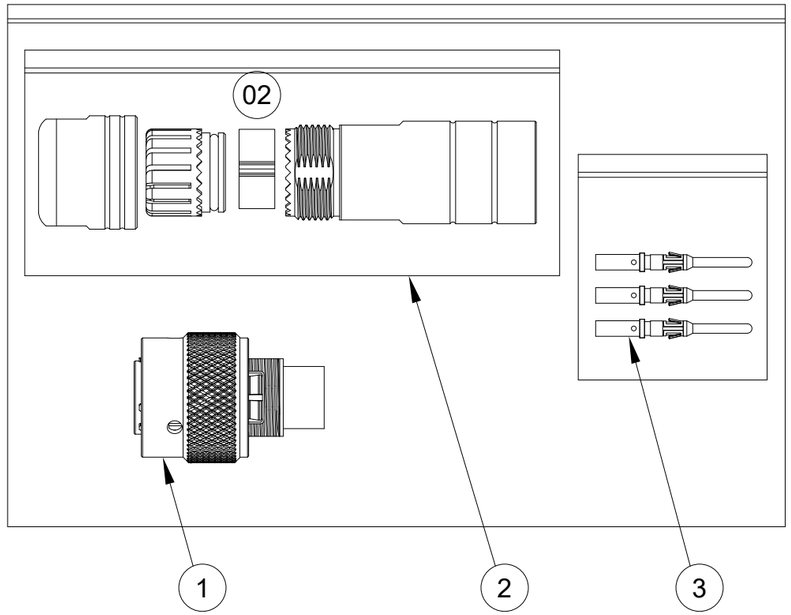


ILLUSTRATION: COMPLETE KIT



NOTES:

1) CORD GRIP RANGE: 3mm TO 6.5mm

2) CONTACT BARREL RANGE: 16AWG TO 18AWG

3) RECOMMENDED CRIMP TOOLS:
   HAND CRIMPER: MFX-3959
   PNEUMATIC CRIMPER: MFX-3960

4) EXTRACTION TOOL: QXRT16

5) MATERIALS:
   HOUSING BODY: ZINC DIE CAST, NICKEL PLATED
   COUPLING NUT: ALUMINUM ALLOY, NICKEL PLATED
   WAVE SPRING: STAINLESS STEEL
   INSULATION INSERT: PA66, UL94/V-0
   CONTACT: BRASS, GOLD FLASH PLATED
   SEAL AND O-RING: NBR (NITRILE BUTADIENE RUBBER)

6) ELECTRICAL DATA:
   a) CURRENT (MAX): 13A
   b) VOLTAGE (MAX): 500V AC/DC
   c) INSULATION RESISTANCE (MIN): 5000M OHMS
   d) TEST VOLTAGE (BETWEEN CONTACTS): 3050V

7) TECHNICAL DATA:
   a) TEMPERATURE RANGE: -40°C TO 105°C
   b) PROTECTION: IP67 (MATED CONDITION)
   c) MATING CYCLES: >500
   d) VIBRATION RESISTANCE PER MIL-STD-202 METHOD 204
   e) THERMAL SHOCK PER MIL-STD-202 METHOD 207
   f) 48 HOUR SALT SPRAY PER MIL-STD-202 METHOD 101

8) RoHS COMPLIANT

QUANTITY	PART NUMBER	DESCRIPTION	ITEM
19	MP16M23F	CONTACT, PIN, SIZE 16	3
1	RT0L-16CG-NS1	CORD GRIP,SHELL 16,10-14MM	2
1	RT061619PNH	CONNECTOR	1

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:	MRF	10SEP13
CHECKED:		
ENGINEER:		
APPROVAL:		
CUSTOMER:		

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Amphenol

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

KIT, ECO-MATE

SIZE	TYPE	DWG NO:	REVISION
B	C-	RT061619PNH-K	04

SCALE: NONE SHEET 1 OF 1

TITLE: KIT, ECO-MATE
DWG NO:
REV: 04
SH: 1
OF: 1

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

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

Stamped & Formed , Crimp Contacts				
Part Number		Contact Size (AWG)	Wire Range (mm²)	Plating
Male	Female			
SP14M2F	SS14M2F	14AWG	2.0-2.5mm²	Gold Flash
SP14M2G5	SS14M2G5	14AWG	2.0-2.5mm²	Gold 5µ"
SP14M2G10	SS14M2G10	14AWG	2.0-2.5mm²	Gold 10µ"
SP14M2G15	SS14M2G15	14AWG	2.0-2.5mm²	Gold 15µ"
SP14M2G30	SS14M2G30	14AWG	2.0-2.5mm²	Gold 30µ"
SP16M2F	SS16M2F	18-16AWG	0.75-1.5mm²	Gold Flash
SP16M2G5	SS16M2G5	18-16AWG	0.75-1.5mm²	Gold 5µ"
SP16M2G10	SS16M2G10	18-16AWG	0.75-1.5mm²	Gold 10µ"
SP16M2G15	SS16M2G15	18-16AWG	0.75-1.5mm²	Gold 15µ"
SP16M2G30	SS16M2G30	18-16AWG	0.75-1.5mm²	Gold 30µ"
SP20M2F	SS20M2F	22-20AWG	0.34-0.50mm²	Gold Flash
SP20M2G5	SS20M2G5	22-20AWG	0.34-0.50mm²	Gold 5µ"
SP20M2G10	SS20M2G10	22-20AWG	0.34-0.50mm²	Gold 10µ"
SP20M2G15	SS20M2G15	22-20AWG	0.34-0.50mm²	Gold 15µ"
SP20M2G30	SS20M2G30	22-20AWG	0.34-0.50mm²	Gold 30µ"
SP24M2F	SS24M2F	26-24AWG	0.14-0.25mm²	Gold Flash
SP24M2G5	SS24M2G5	26-24AWG	0.14-0.25mm²	Gold 5µ"
SP24M2G10	SS24M2G10	26-24AWG	0.14-0.25mm²	Gold 10µ"
SP24M2G15	SS24M2G15	26-24AWG	0.14-0.25mm²	Gold 15µ"
SP24M2G30	SS24M2G30	26-24AWG	0.14-.025mm²	Gold 30µ"

Machined, Tooling	
Part Number	**Description**
QXRT16	Contact Extraction Tool, #16 (Ø 1.6) Contact
MFX-3959	Hand Crimp Tool for Machined Contacts
MFX-3960	Pneumatic Crimp Tool for Machined Contact

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

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

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

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