

Contacts & Tools

2M Specs

2M801

2M803

2M804

2M805

2M Filter & Accessories

HD38999

Micro-D

Terrapin

Nexus

Series	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position
2M801-0XX	-16	NF	6-7	P	A

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut.

SERIES	
2M801-036	Plugs with Integral Backshell
2M801-039	Plugs with Rear Accessory Thread
2M801-037	Receptacle with Integral Backshell
2M801-040	Receptacle with Accessory Thread

SHELL STYLE	
2M801-007 2M801-008	
-16	Plug with Anti-Decoupling Spring
-26	Self-Locking Plug with Ratchet Mechanism
SHELL STYLE	
2M801-009 2M801-010	
-01	In-Line
-02	Square Flange
-07	Jam Nut*

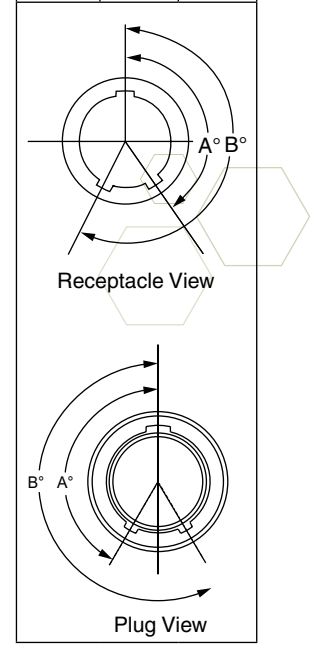
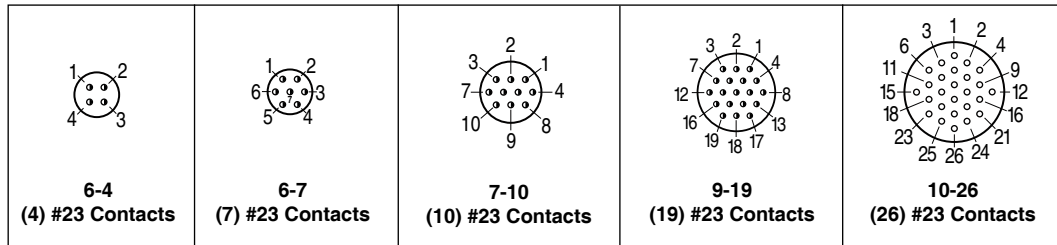
SERVICE CLASS	
Finish	
C	Aluminum/Black Anodize (Non-Conductive)
M	Aluminum/Electroless Nickel
NF	Aluminum/Cadmium with Olive Drab Chromate
MT	Aluminum/Nickel-PTFE (Durmalon)
Z1	Stainless Steel/Passivated
ZM	Stainless Steel/Electroless Nickel
ZN	Aluminum/Zinc-Nickel w/ Olive Drab Chromate
ZNU	Aluminum/Zinc-Nickel with Black Chromate

SHELL SIZE - INSERT ARRANGEMENTS	
See Insert Arrangements Below	
CONTACTS	
P	Pin
S	Socket
A	Pin, less contacts
B	Socket, less contacts



KEYING		
	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

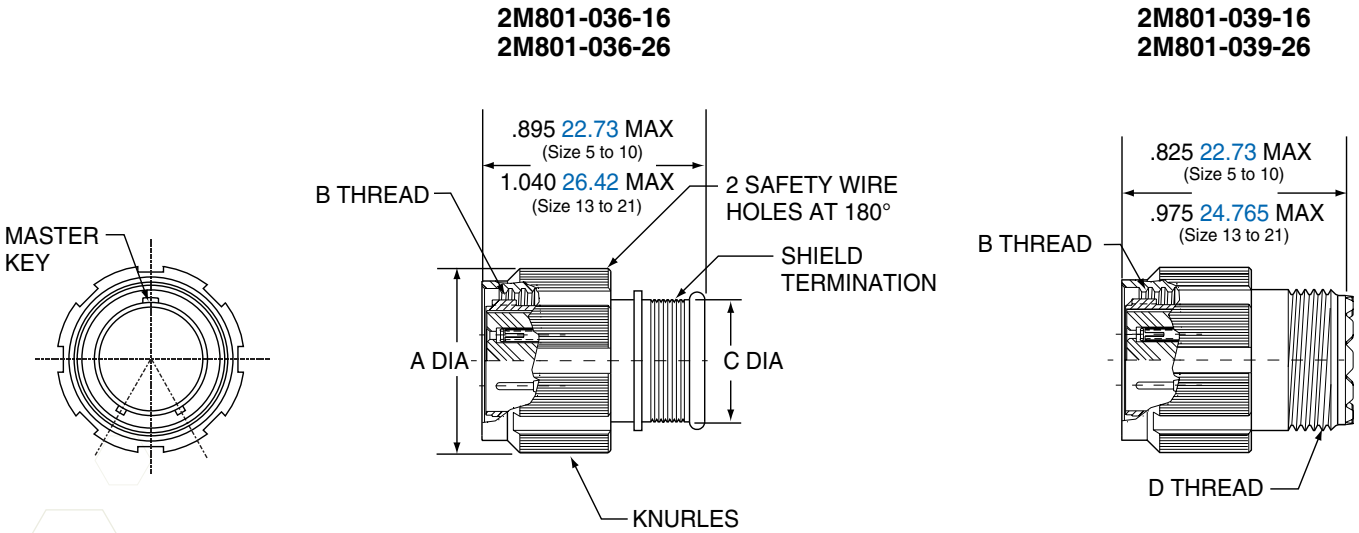
INSERT ARRANGEMENTS



2M801 High Speed Dual-Start ACME Threads Plug

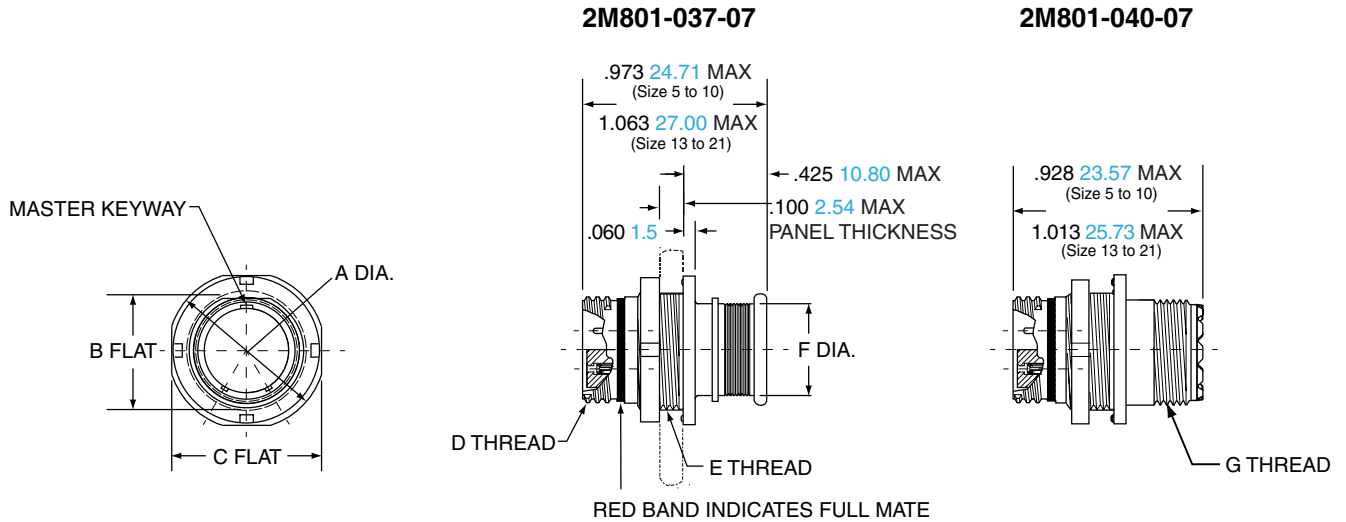


2M801-036 and 2M801-039



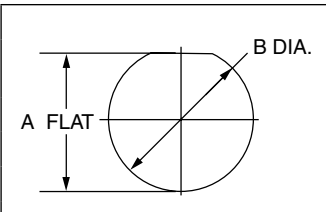
Shell Size	Style 16		Style 26		B Thread	C Dia.		D Thread UNEF-2A
	A Dia.		A Dia.			in.	mm.	
	in.	mm.	in.	mm.				
6	.610	15.49	.710	18.03	.3750-.05P-.1L-2B	.290	7.37	.3125-32
7	.695	17.65	.790	20.07	.4375-.05P-.1L-2B	.390	9.91	.4375-28
9	.810	20.57	.920	23.37	.5625-.05P-.1L-2B	.500	12.70	.5625-24
10	.890	22.61	.985	25.02	.6250-.05P-.1L-2B	.560	14.22	.6250-24

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Shell Size	A Dia.		B Flat		C Flat		D Thread	E Thread	F Dia.		G Thread UNEF-2A
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.290	7.37	.3125-32
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32 UN-2A	.390	9.91	.4375-28
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.6250-28 UN-2A	.500	12.70	.5625-24
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28 UN-2A	.560	14.22	.6250-24

JAM NUT PANEL CUTOUT

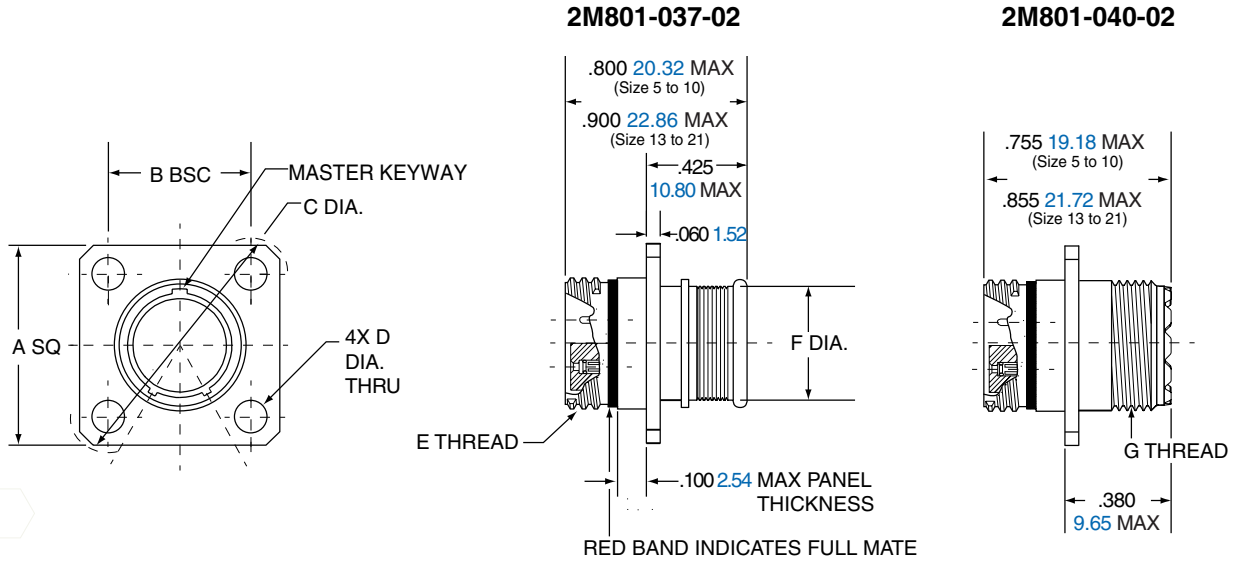


Shell Size	A Flat		B Dia.	
	in. ± .002	mm. ± 0.05	in. ± .002	mm. ± 0.05
6	.416	10.57	.447	11.35
7	.542	13.77	.572	14.53
9	.602	15.29	.635	16.13
10	.666	16.62	.697	17.70

2M801 High Speed Dual-Start ACME Threads Square Flange



Receptacle 2M801-037-02 & 2M801-040-02

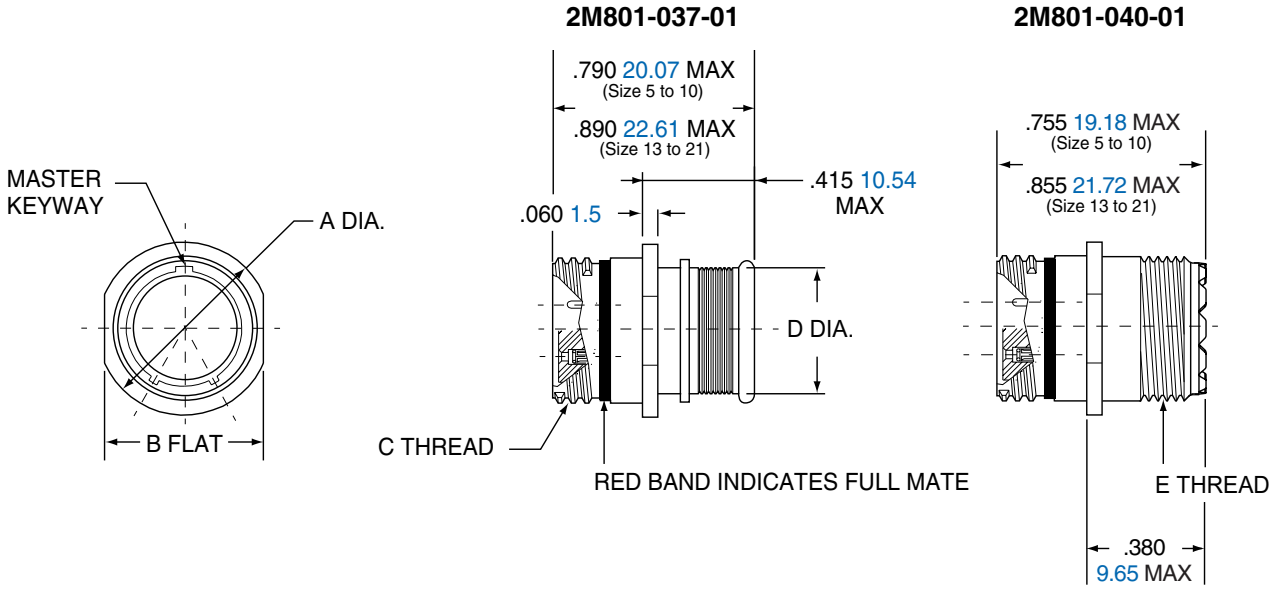


Shell Size	A		B BSC		C Dia.		D Dia.		E Thread	F Dia.		G Thread UNEF-2A
	in.	mm.	in.	mm.	in.	mm.	in. ± .003	mm. ± .08		in.	mm.	
6	.590	14.99	.423	10.74	.750	19.05	.093	2.36	.3750-.05P-.1L-2A	.290	7.37	.3125-32
7	.650	16.51	.483	12.27	.850	21.59	.093	2.36	.4375-.05P-.1L-2A	.390	9.91	.4375-28
9	.850	21.59	.607	15.42	1.125	28.58	.128	3.25	.5625-.05P-.1L-2A	.500	12.70	.5625-24
10	.890	22.61	.670	17.02	1.190	30.23	.128	3.25	.6250-.05P-.1L-2A	.560	14.22	.6250-24

PANEL CUTOUT

Shell Size	A Dia.		B Dia.		C Dia.	
	in.	mm.	in.	mm.	in.	mm.
6	.390	9.91	.423	10.74	.093	2.36
7	.450	11.43	.483	12.27	.093	2.36
9	.575	14.61	.607	15.42	.128	3.25
10	.640	16.26	.670	17.02	.128	3.25

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Shell Size	A Dia.		B Flat		C Thread	D Dia.		E Thread UNEF-2A
	in.	mm.	in.	mm.		in.	mm.	
6	.415	10.54	.385	9.78	.3750-.05P-.1L-2A	.290	7.37	.3125-32
7	.480	12.19	.445	11.30	.4375-.05P-.1L-2A	.390	9.91	.4375-28
9	.605	15.37	.575	14.61	.5625-.05P-.1L-2A	.500	12.70	.5625-24
10	.665	16.89	.635	16.13	.6250-.05P-.1L-2A	.560	14.22	.6250-24

2M801 High Speed Dual-Start ACME Threads



Ordering Guide for High Speed PCB Receptacles 2M801-038 and 2M801-041

2M801 High Speed Series of PC Board Receptacles:

2M801 High Speed Series of PC Board Receptacles are intended for use of terminating the connector directly to a Circuit Board or Flex assembly. These connectors can also be supplied with Solder cup termination for direct wire attachment.

2M801 HIGH SPEED SERIES FEATURES INCLUDE:

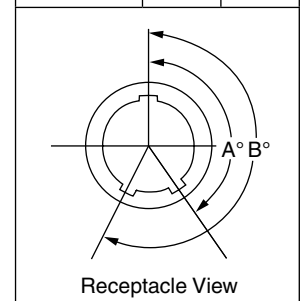
- Low Profile Shells for minimum box protrusion
- Shell Standoffs for PC Board washout
- Non-removable PC and/or Solder cup contacts
- Teflon Inserts
- Environmental Sealing



Series	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position
2M801-0XX	-02	NF	6-7	P	A

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut.

KEYING		
	A°	B°
(Normal) A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°



SERIES	
2M801-038	Receptacle for Solder Cup or PCB Termination with Epoxy Potting
2M801-041	Receptacle with Solder Cup or PCB Termination with Special Sealing for Open Face (unmated) Water Immersion Requirements. 100% Leak Tested. To maintain a helium leak rate of 1-10 ⁻⁴ cc/sec. pressure differential from -55°C to 150° C.

SHELL STYLE	
-02	Square Flange
-07	Jam Nut*

SHELL SIZE - INSERT ARRANGEMENTS

See Insert Arrangements Below

SERVICE CLASS		
		Finish
C		Aluminum/Black Anodize (Non-Conductive)
M		Aluminum/Electroless Nickel
NF		Aluminum/Cadmium with Olive Drab Chromate
MT		Aluminum/Nickel-PTFE (Durmalon)
Z1		Stainless Steel/Passivated
ZM		Stainless Steel/Electroless Nickel
ZN		Aluminum/Zinc-Nickel w/Olive Drab Chromate
ZNU		Aluminum/Zinc-Nickel with Black Chromate

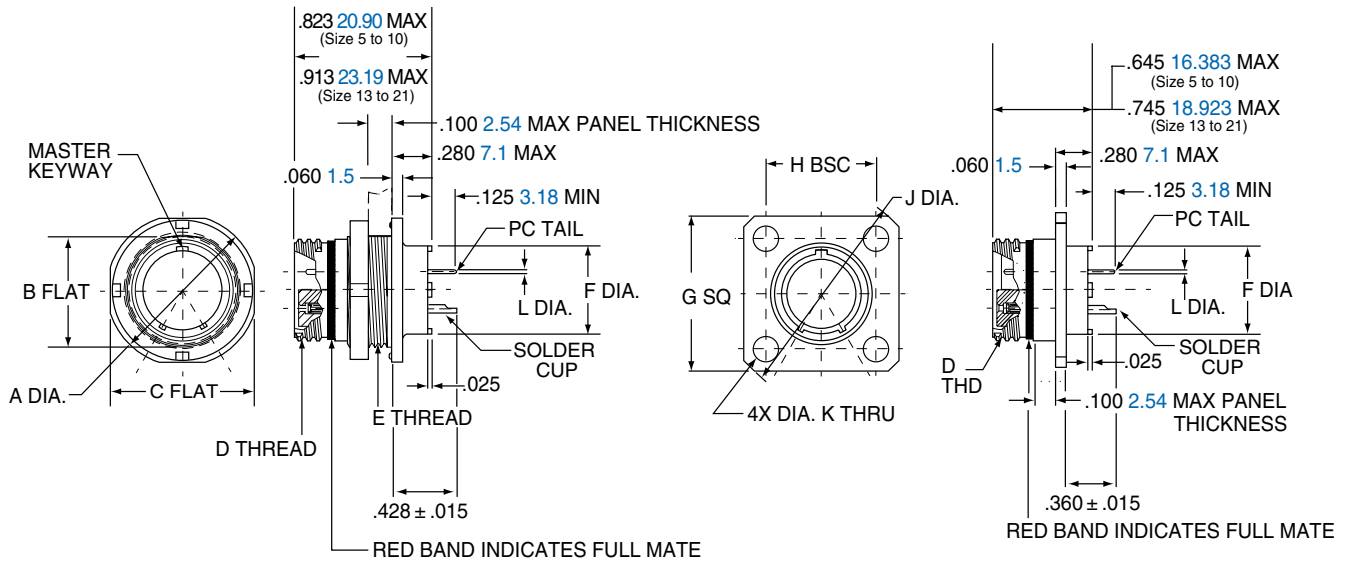
CONTACTS	
P	Pin - PCB
S	Socket - PCB
E	Pin - Solder Cup
F	Socket - Solder Cup

INSERT ARRANGEMENTS

6-4 (4) #23 Contacts	6-7 (7) #23 Contacts	7-10 (10) #23 Contacts	9-19 (19) #23 Contacts	10-26 (26) #23 Contacts

2M801-038-07
2M801-041-07

2M801-038-02
2M801-041-02



Shell Size	A Dia.		B Flat		C Flat		D Thread	E Thread	F Dia.		G Sq.		H BSC		J Dia.		K Dia.		L Dia. Tail Dia.
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28	.330	8.38	.590	14.99	.423	10.74	.750	19.05	.093	2.36	#23
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32	.432	10.97	.650	16.51	.483	12.27	.850	21.59	.093	2.36	.018/.022
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.6250-28	.551	14.00	.850	21.56	.607	15.42	1.125	28.58	.128	3.25	0.46/0.56
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28	.620	15.75	.890	22.61	.670	17.02	1.188	30.23	.128	3.25	

Square Flange 02

Jam Nut 07

PANEL CUTOUT

Shell Size	A Dia.		B Dia.		C Dia.		D Flat		E Dia.	
	in.	mm.	in.	mm.	in.	mm.	in. ±.002	mm. ± 0.05	in. ±.002	mm. ± 0.05
6	.390	9.91	.423	10.74	.093	2.36	.416	10.57	.447	11.35
7	.450	11.43	.483	12.27	.093	2.36	.542	13.77	.572	14.53
9	.575	14.61	.607	15.42	.128	3.25	.602	15.29	.635	16.13
10	.640	16.26	.670	17.02	.128	3.25	.666	16.92	.697	17.70