

2M Series 801 Dual-Start Acme Threads

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Amphenol's 2M Micro38999 Connector Series... The New Aerospace Standard

Averaging less than half the size and weight of their 38999 ancestors, Amphenol's 2M Micro38999 series are an easy and inexpensive way to take weight out of your system. 2M meet or exceed most environmental and performance requirements listed in MIL-DTL-38999, so modernizing your equipment doesn't mean sacrificing ruggedness. With almost 2,000,000 configurations in every termination style and a full complement of accessories available right out of the catalog, customization has never been easier. Smarter, faster and smaller: Amphenol's 2M... the only connector you'll ever need.

2M801 Features

- Heavy Dual-Start ACME Thread
- Most durable of the 2M series
- Up to 2,000 mating cycles
- Two Plug Styles
- Ratcheting Anti-Decoupling Plug
- Free-Spinning Plug



Why 2M801?

2M801 is generally considered a legacy series and is mostly inactive for new designs. Its successor, the 2M805 series, has a number of important improvements, including a triple-start thread (which reduces the number of turns it takes to fully mate the connectors) and an EMI band (which increases shell-to-shell conductivity and greatly improves signal shielding). You should choose 2M801 if you're looking to maintain compatibility or interoperability with existing technology or cables.

2M801

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2M VS 38999		
SPECIFICATION	2M801	MIL-DTL 38999
Signal Count	1 to 130	1 to 187
Insulation Resistance	5,000 megaohms min	5,000 megaohms min
Operating Temperature	-65°C to +150°C	-65°C to +175°C
Shock	300 G ± 15	300 G ± 15
Vibration	"43.9 G Random 60.0 G Sine"	"43.9 G Random 60.0 G Sine"
Shielding Effectiveness	"55 dB min. from 100 MHz to 1000 MHz"	"50 dB min. from 100 MHz to 1000 MHz"
Durability	500 mating cycles	500 mating cycles
Shell to Shell Conductivity	2.5 mV drop max	2.5 mV drop max
Contacts	Per AS39029	Per AS39029
Environmental Resistance	IP67 (When Mated or with a Protection Cap)	IP67 (When Mated or with a Protection Cap)

2M801 MATERIALS AND FINISHES	
Shells	Aluminum Alloy or Stainless Steel
Contacts	Copper Alloy, gold plated
Insulators	Polyphenylene Sulfide (PPS)
Contact Retention	Beryllium Copper Alloy
Grommet, Interfacial Seal, O-Ring	Fluorosilicone Rubber

2M801 Dual-Start ACME Threads

Ordering Guide for 2M801



1.	2.	3.	4.	5.	6.
SERIES	SHELL STYLE	SERVICE CLASS	SHELL SIZE-INSERT AGGMT	CONTACTS	KEYING
2M801-007	-01	C	5-3	P	A

1. SERIES		
Type	Part #	Description
CRIMP	PLUG	
	2M801-007	Plug with Integral Backshell
	2M801-008	Plug with Accessory Threads
	RECEPTACLE	
	2M801-009	Receptacle with Integral Backshell
	2M801-010	Receptacle with Accessory Threads

PCB/SOLDER		
PCB/ SOLDER	2M801-011	Receptacle for Solder Cup or PCB Termination with Epoxy Potting
	2M801-033	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.
	2M801-075	Receptacle with Standoff Flange for Mechanical PCB Strain Relief
	RIGHT ANGLE PCB	
	2M801-023	Receptacle w/ Right Angle PCB

2. SHELL STYLE	
Part #	Description
PLUG	
-16	Anti-Decoupling
-26	Self-Locking Ratchet
RECEPTACLE	
-01	In-Line**
-02	Square Flange
-07	Jam Nut
PCB/SOLDER	
-02	Square Flange
-07	Jam Nut*
-12	Square Flange w/non-locking Clinch Nuts
-22	Square Flange w/ locking Clinch Nuts

3. SERVICE CLASS			
Material	Part #	Description	RoHS
ALUMINUM	C	Anodized (Non-conductive)	
	M	Electroless Nickel	
	NF	Olive Drab Cadmium	
	MT	Durmalon (Ni PTFE)	
	ZN	Olive Drab Zinc Nickel	
	ZNU	Black Zinc Nickel	
	BEN	Black Electroless Nickel	
STAINLESS STEEL	Z1	Passivated	
	ZM	Electroless Nickel	

RIGHT ANGLE PCB	
-07	Jam Nut*

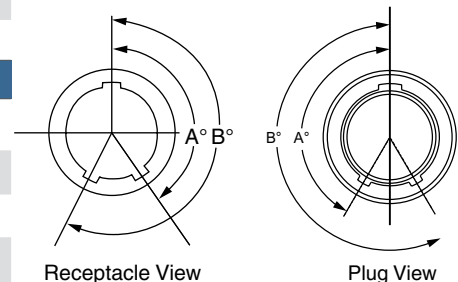
*add "-501" as a suffix to the Jam Nut Part number to include a Hex Nut instead of a Spanner Nut.

6. KEYING		
Part #	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

4. SHELL SIZE-INSERT ARRANGEMENT

See Table on pages 7-20

5. CONTACTS		
Style	Part #	Description
CRIMP	P	Pin
	S	Socket
	A	Pin-Less Contacts
	B	Socket-Less Contacts
PCB/SOLDER		
PCB/SOLDER	P	Pin-PCB
	S	Socket-PCB
	E	Pin-Solder Cup
	F	Socket-Solder Cup



For additional assistance building a part number and for 3D models, please visit www.amphenol-aerospace.com to access our 2M configurator.

2M Series 801 Dual-Start Acme Threads

Connector Weights

SERIES 2M801 MAXIMUM CONNECTOR WEIGHT IN GRAMS

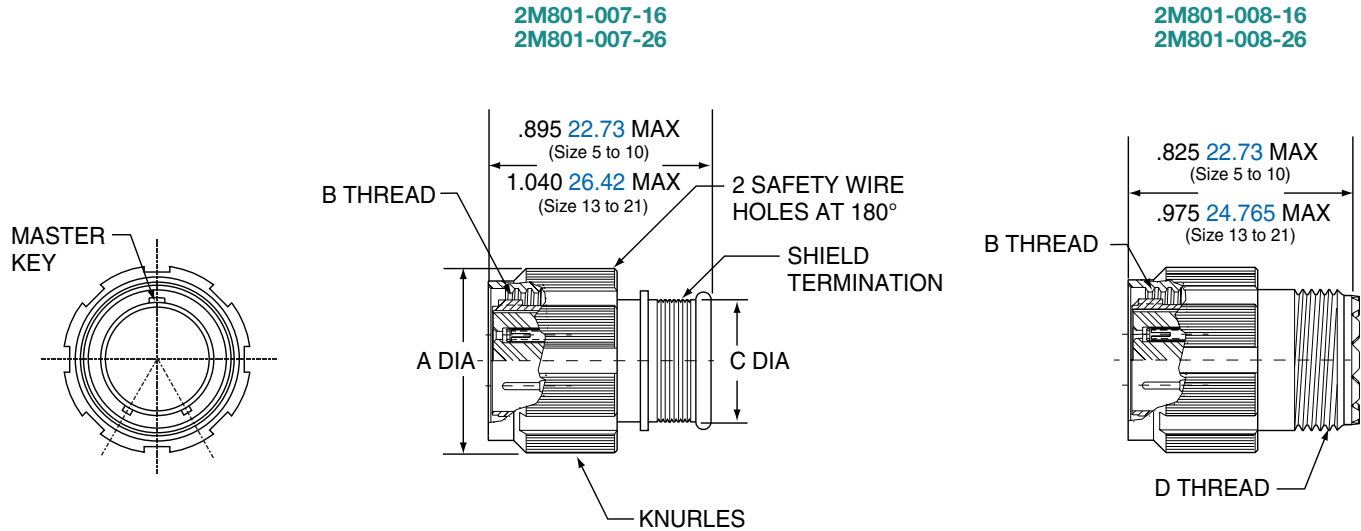
Insert Arrg.	Plug	Jam Nut Recept. Crimp	Jam Nut Recept. PCB	Sq. Flange Recept. Crimp	Sq. Flange Recept. PCB	Insert Arrg.	Plug	Jam Nut Recept. Crimp	Jam Nut Recept. PCB	Sq. Flange Recept. Crimp	Sq. Flange Recept. PCB
5-3P	4.4	3.4	3.6	2.0	2.2	10-201S	16.7	13.5	14.4	15.0	11.7
5-3S	4.5	3.5	3.7	2.0	2.4	10-202P	14.9	11.7	12.6	13.2	9.9
6-1P	5.6	4.3	4.6	2.7	2.9	10-202S	16.3	13.1	14.0	14.6	11.3
6-1S	5.9	4.6	4.9	3.0	3.2	13-2P	18.9	17.2	17.2	17.2	15.1
6-4P	5.6	4.3	4.6	2.7	2.9	13-2S	20.4	18.7	18.7	18.7	16.6
6-4S	5.8	4.5	4.7	2.8	3.0	13-3P	19.8	18.1	18.1	18.1	16.0
6-7P	5.4	4.1	4.6	2.9	3.4	13-3S	21.4	19.7	19.7	19.7	17.6
6-7S	5.6	4.4	4.7	3.2	3.5	13-7P	20.0	18.3	18.3	18.3	16.2
7-1P	7.8	6.5	7.2	4.5	5.2	13-7S	22.4	20.7	20.7	20.7	18.6
7-1S	8.3	7.0	7.7	5.0	5.7	13-37P	18.4	16.7	16.7	16.7	14.6
7-10P	7.6	6.3	7.7	4.3	5.0	13-37S	19.9	17.6	17.6	17.6	15.5
7-10S	8.0	6.7	7.0	4.7	5.2	13-200P	19.0	17.3	17.3	17.3	15.2
8-2P	8.9	7.7	7.2	5.6	6.8	13-200S	21.1	19.4	19.4	19.4	17.3
8-2S	9.6	8.4	8.7	6.3	7.5	13-201P	19.1	17.4	17.4	17.4	15.3
8-13P	8.3	7.1	9.4	5.0	6.2	13-201S	21.3	19.6	19.6	19.6	17.5
8-13S	8.9	7.6	8.1	5.6	6.5	16-5P	28.5	22.6	24.4	25.4	23.0
8-200P	9.2	8.0	8.5	5.9	7.1	16-5S	31.2	25.3	28.1	28.1	25.7
8-200S	9.8	8.6	9.0	6.5	7.7	16-12P	29.2	23.3	26.1	26.1	23.7
9-4P	10.9	8.7	10.7	7.6	8.6	16-12S	32.5	26.6	29.4	29.4	27.0
9-4S	11.8	10.6	11.6	8.5	9.5	16-55P	26.5	20.6	24.3	24.3	21.9
9-19P	10.1	7.9	9.2	5.8	7.1	16-55S	29.2	23.3	26.1	26.1	23.7
9-19S	10.9	8.7	9.7	6.6	7.6	17-7P	29.8	27.0	29.4	29.4	25.2
9-200P	10.4	9.2	10.2	7.1	8.1	17-7S	33.0	30.2	32.6	32.6	28.4
9-200S	11.4	10.2	11.2	8.1	9.1	17-14P	32.6	29.8	32.2	32.2	28.0
9-201P	9.6	8.4	9.4	6.6	7.6	17-14S	32.3	29.5	31.9	31.9	27.7
9-201S	11.5	10.3	11.3	8.2	9.2	17-85P	28.1	23.2	29.0	29.0	25.3
10-5P	15.8	12.6	13.5	14.1	12.8	17-85S	31.0	26.2	30.6	30.6	26.4
10-5S	17.1	13.9	14.8	15.4	14.1	21-12P	35.0	31.4	34.4	26.4	31.4
10-26P	14.2	11.0	11.9	12.5	8.7	21-12S	39.6	36.0	39.0	31.0	36.0
10-26S	15.3	12.1	12.5	16.7	9.2	21-22P	37.3	33.7	36.7	28.7	33.7
10-200P	15.0	11.8	12.7	13.3	10.0	21-22S	43.6	40.0	43.0	35.0	40.0
10-200S	16.3	13.1	14.0	14.6	11.3	21-130P	32.9	29.3	32.3	24.3	29.3
10-201P	15.3	12.1	13.3	13.6	10.3	21-130S	39.4	35.8	38.8	30.8	35.8

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2M801 Dual-Start ACME Threads Plug

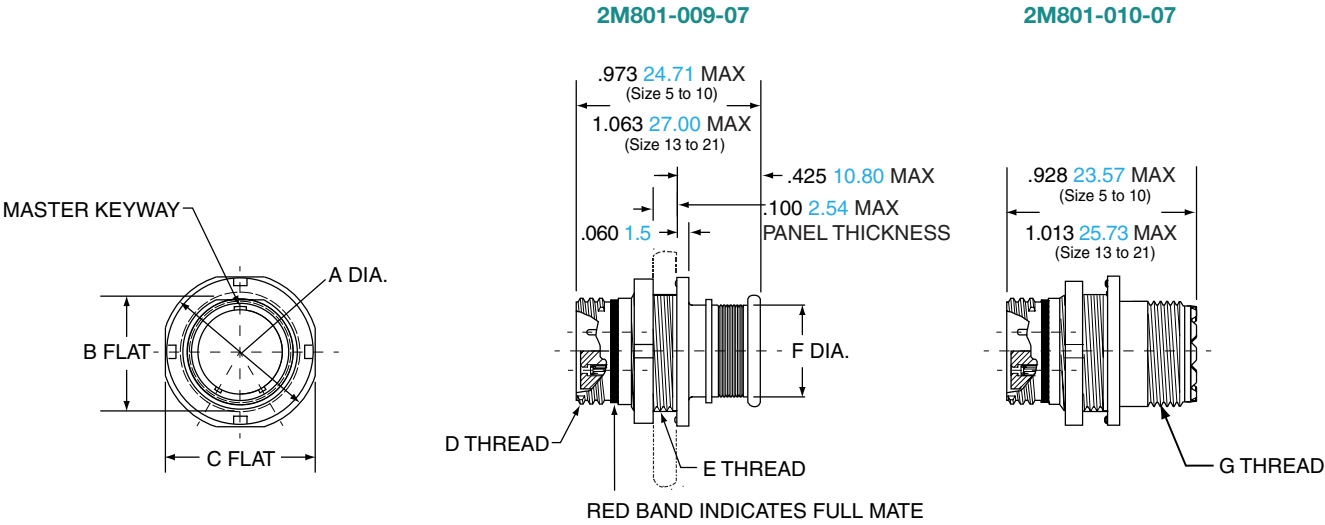
2M801-007 and 2M801-008



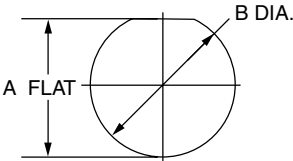
Shell Size	Style 16		Style 26		B Thread	C Dia.		D Thread UNEF-2A
	A Dia.		A Dia.			in.	mm.	
	in.	mm.	in.	mm.				
5	.545	13.84	.660	16.76	.3125-.05P-.1L-2B	.245	6.22	.2500-32
6	.610	15.49	.710	18.03	.3750-.05P-.1L-2B	.290	7.37	.3125-32
7	.695	17.65	.790	20.07	.4375-.05P-.1L-2B	.390	9.91	.4375-28
8	.750	19.05	.860	21.84	.5000-.05P-.1L-2B	.445	11.30	.5000-28
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
13	1.060	26.92	1.150	29.21	.8125-.1P-.2L-2B	.650	16.51	.6875-24
16	1.250	31.75	1.345	34.16	1.0000-.1P-.2L-2B	.805	20.45	.9375-20
17	1.310	33.27	1.400	35.56	1.0625-.1P-.2L-2B	.850	21.59	.9375-20
21	1.560	39.62	1.660	42.16	1.3125-.1P-.2L-2B	1.135	28.83	1.1875-18

2M801

2M801 Dual-Start ACME Threads Jam Nut
2M801-009-07 and 2M801-010-07



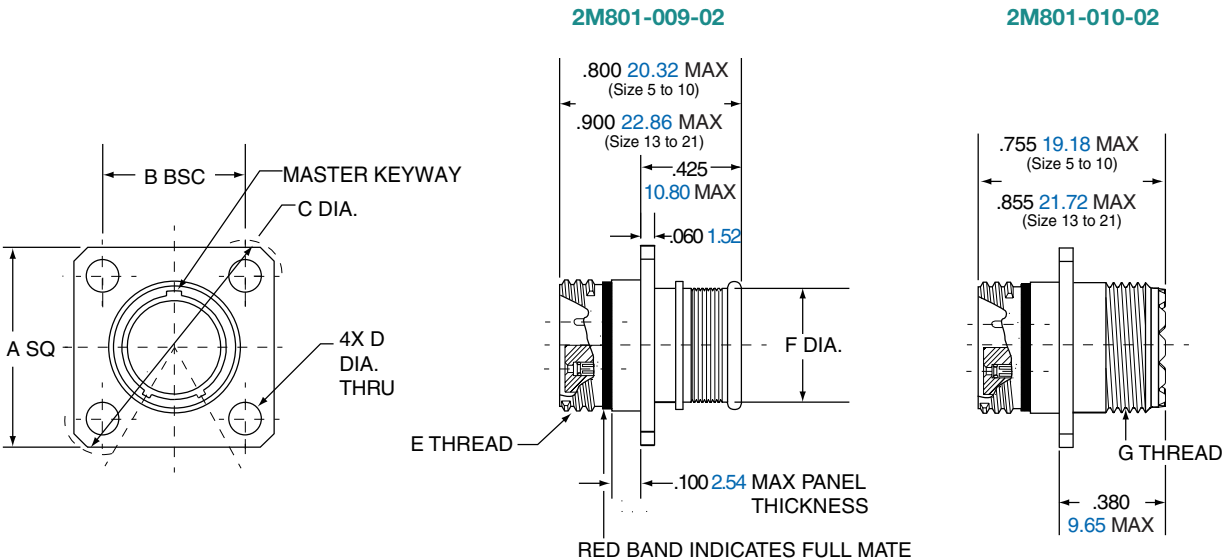
Shell Size	A Dia.		B Flat		C Flat		D Thread	E Thread	F Dia.		G Thread UNEF-2A
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.3750-28 UN-2A	.245	6.22	.2500-32
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.290	7.37	.3125-32
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32 UN-2A	.390	9.91	.4375-28
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32 UN-2A	.445	11.30	.5000-28
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
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28 UN-2A	.650	16.51	.6875-24
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20 UN-2A	.805	20.45	.9375-20
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.125-28 UN-2A	.850	21.59	.9375-20
21	1.625	41.28	1.347	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.375-28 UN-2A	1.135	28.83	1.1875-18



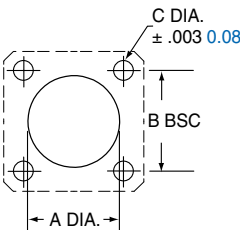
JAM NUT PANEL CUTOUT				
Shell Size	A Flat		B Dia.	
	in. ± .002	mm. ± 0.05	in. ± .002	mm. ± 0.05
5	.356	9.04	.385	9.78
6	.416	10.57	.447	11.35
7	.542	13.77	.572	14.53
8	.542	13.77	.572	14.53
9	.602	15.29	.635	16.13
10	.666	16.62	.697	17.70
13	.851	21.62	.885	22.48
16	1.028	26.11	1.075	27.31
17	1.102	27.99	1.135	28.83
21	1.354	34.39	1.385	35.18

2M801 Dual-Start ACME Threads Square Flange

Receptacle 2M801-009-02 and 2M801-010-02



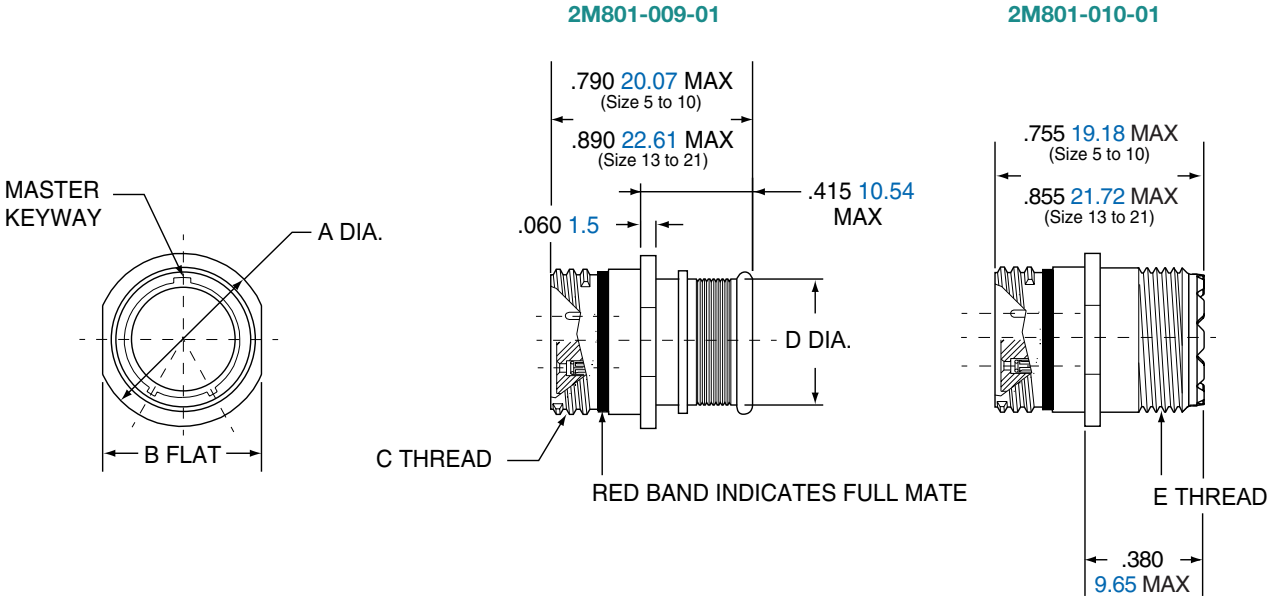
Shell Size	A		B BSC		C Dia.		D Dia.		E Thread	F Dia.		G Thread UNEF-2A
	in.	mm.	in.	mm.	in.	mm.	in. ± .003	mm. ± .08		in.	mm.	
5	.530	13.46	.363	9.22	.680	17.27	.093	2.36	.3125-.05P-.1L-2A	.245	6.22	.2500-32
6	.590	14.99	.423	10.74	.750	19.05	.093	2.36	.3750-.05P-.1L-2A	.290	7.37	.3125-32
7	.650	16.51	.483	12.27	.850	21.59	.093	2.36	.4375-.05P-.1L-2A	.390	9.91	.4375-28
8	.712	18.08	.545	13.84	.940	23.88	.093	2.36	.5000-.05P-.1L-2A	.445	11.30	.5000-28
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
13	1.030	26.16	.812	20.62	1.375	34.93	.128	3.25	.8125-.1P-.2L-2A	.650	16.51	.6875-24
16	1.219	30.96	.981	24.92	1.625	41.28	.128	3.25	1.0000-.1P-.2L-2A	.805	20.45	.9375-20
17	1.280	32.51	1.060	26.92	1.700	43.18	.128	3.25	1.0625-.1P-.2L-2A	.850	21.59	.9375-20
21	1.430	36.32	1.205	30.61	1.940	49.28	.128	3.25	1.3125-.1P-.2L-2A	1.135	28.83	1.1875-18



PANEL CUTOUT						
Shell Size	A Dia.		B Dia.		C Dia.	
	in.	mm.	in.	mm.	in.	mm.
5	.330	8.38	.363	9.22	.093	2.36
6	.390	9.91	.423	10.74	.093	2.36
7	.450	11.43	.483	12.27	.093	2.36
8	.510	12.95	.545	13.84	.093	2.36
9	.575	14.61	.607	15.42	.128	3.25
10	.640	16.26	.670	17.02	.128	3.25
13	.825	20.96	.812	20.65	.128	3.25
16	1.015	25.78	.981	24.92	.128	3.25
17	1.075	27.31	1.060	26.92	.128	3.25
21	1.325	33.66	1.205	30.61	.128	3.25

2M801 Dual-Start ACME Threads In-Line

2M801-009-01 and 2M801-010-01



Shell Size	A Dia.		B Flat		C Thread	D Dia.		E Thread UNEF-2A
	in.	mm.	in.	mm.		in.	mm.	
5	.355	9.02	.325	8.13	.3125-.05P-.1L-2A	.245	6.22	.2500-32
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
8	.540	13.72	.510	12.95	.5000-.05P-.1L-2A	.445	11.30	.5000-28
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
13	.855	21.72	.825	20.96	.8125-.1P-.2L-2A	.650	16.51	.6875-24
16	1.040	26.42	1.010	25.65	1.0000-.1P-.2L-2A	.805	20.44	.9375-20
17	1.110	28.19	1.070	27.18	1.0625-.1P-.2L-2A	.850	21.59	.9375-20
21	1.405	35.69	1.385	35.18	1.3125-.1P-2L-2A	1.135	28.83	1.1875-18

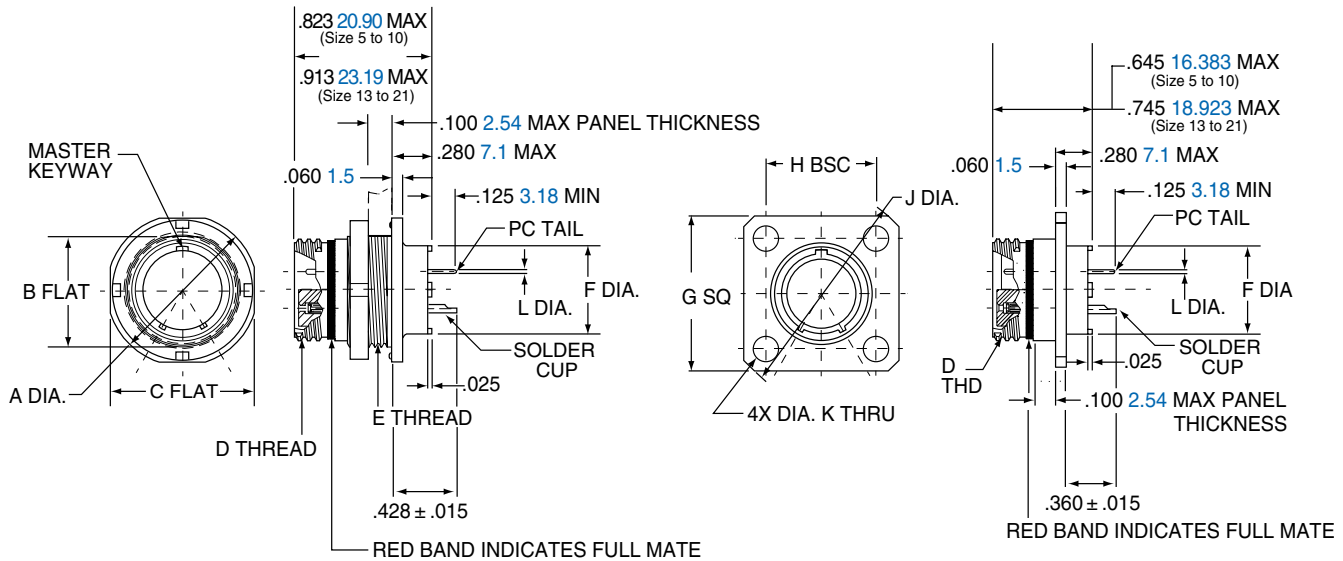
2M801 Dual-Start ACME Threads

Jam Nut and Square Flange 2M801-011 and 2M801-033



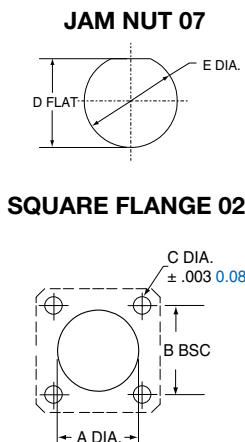
2M801-011-07
2M801-033-07

2M801-011-02
2M801-033-02



Shell Size	A Dia.		B Flat		C Flat		D Thread	E Thread	F Dia.		G Sq.		H BSC		J Dia.	
	in.	mm.	in.	mm.	in.	mm.			in.	mm.	in.	mm.	in.	mm.	in.	mm.
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.3750-28	.244	6.20	.530	13.46	.363	9.22	.680	17.27
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
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
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32	.493	12.52	.712	18.08	.545	13.84	.938	23.88
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
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
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28	.703	17.86	1.030	26.16	.812	20.62	1.375	34.93
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20	.863	21.92	1.219	30.96	.981	24.92	1.625	41.28
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.1250-28	.912	23.16	1.280	32.51	1.060	26.92	1.700	43.18
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.3750-28	1.170	29.72	1.565	36.32	1.322	33.58	2.100	49.28

Shell Size	K Dia.		L Dia. Tail Dia.
	in.	mm.	
5	.093	2.36	#23 .018/.022
6	.093	2.36	0.46/0.56
7	.093	2.36	#20/20HD .025/.027
8	.093	2.36	0.64/0.69
9	.128	3.25	#16 .060/.064
10	.128	3.25	1.52/1.63
13	.128	3.25	#12 .092/.096
16	.128	3.25	2.34/2.44
17	.128	3.25	
21	.128	3.25	

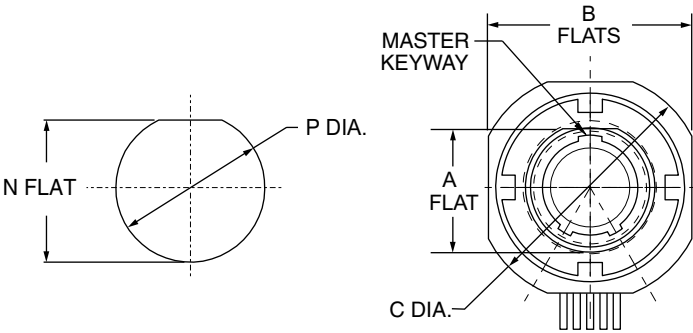


PANEL CUTOUT

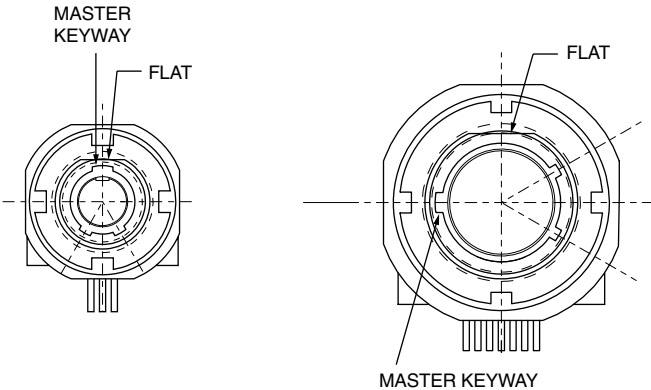
Shell Size	A Dia.		B Dia.		C Dia.		D Flat		E Dia.	
	in.	mm.	in.	mm.	in.	mm.	in. ±.002	mm. ± 0.05	in. ±.002	mm. ± 0.05
5	.330	8.38	.363	9.22	.093	2.36	.356	9.04	.385	9.78
6	.390	9.91	.423	10.74	.093	2.36	.416	10.57	.447	11.35
7	.450	11.43	.483	12.27	.093	2.36	.542	13.77	.572	14.53
8	.510	12.95	.545	13.84	.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
13	.825	20.96	.812	20.65	.128	3.25	.851	21.62	.885	22.48
16	1.015	25.78	.981	24.92	.128	3.25	1.028	26.11	1.075	27.31
17	1.075	27.31	1.060	26.92	.128	3.25	1.102	27.99	1.135	28.83
21	1.330	33.78	1.322	33.58	.128	3.25	1.354	34.39	1.385	35.18

2M801 Dual-Start Right Angle PCB

Jam Nut Connector 2M801-023-07

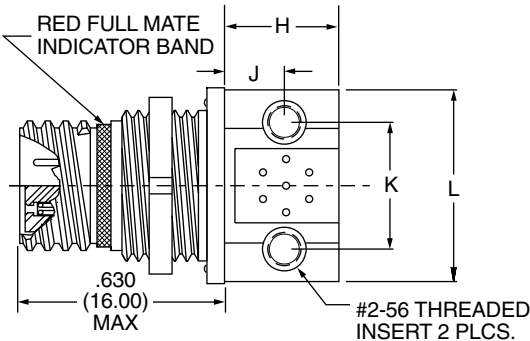
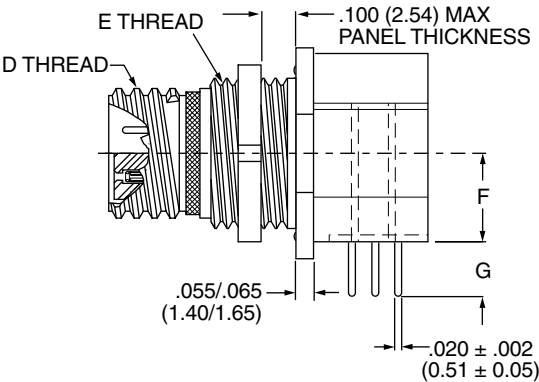


MASTER KEYWAY IS LOCATED AT TOP DEAD CENTER FOR ALL ARRANGEMENTS EXCEPT FOR THE 8-13.



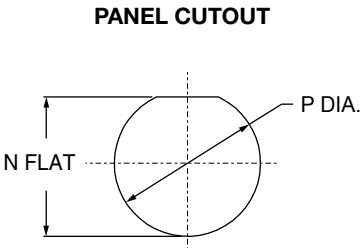
5-3, 6-4, 6-7, 7-10, AND 9-19
MASTER KEYWAY LOCATION

8-13
MASTER KEYWAY LOCATION



Shell Size	A		B		C Dia.		D Thread	E Thread	F		G		H	
	in. ±.005	mm. ±0.13	in.	mm.	in.	mm.			in.	mm.	in. ±.035	mm. ±0.89	in.	mm.
5-3	.350	8.89	.548	13.92	.575	14.61	.3125-.05P-.1L-2A	.3750-28 UN-2A	.225	5.72	.275	6.99	.260	6.60
6-4	.410	10.41	.598	15.19	.635	16.13	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.225	5.72	.265	6.73	.345	8.76
6-7	.410	10.41	.598	15.19	.635	16.13	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.225	5.72	.265	6.73	.345	8.76
7-10	.536	13.61	.726	18.44	.755	19.18	.4375-.05P-.1L-2A	.5625-32 UN-2A	.296	7.52	.273	6.93	.345	8.76
8-2	.538	13.67	.728	18.49	.758	19.25	.5000-.05P-.1L-2A	.5625-32 UN-2A	.319	8.10	.316	.803	.490	12.45
8-13	.538	13.67	.728	18.49	.758	19.25	.5000-.05P-.1L-2A	.5625-32 UN-2A	.319	8.10	.316	8.03	.490	12.45
9-19	.596	15.14	.793	20.14	.833	21.16	.5625-.05P-.1L-2A	.6250-28 UN-2A	.360	9.14	.275	6.99	.490	12.45

Shell Size	J		K		L		N		P	
	in.	mm.	in.	mm.	in.	mm.	in. ±.002	mm. ±0.05	in. ±.005	mm. ±0.13
5-3	.165	4.19	.310	7.87	.490	14.45	.357	9.07	.385	9.78
6-4	.187	4.75	.408	10.36	.589	15.19	.418	10.62	.448	11.37
6-7	.187	4.75	.408	10.36	.589	15.19	.418	10.62	.448	11.37
7-10	.170	4.32	.452	11.48	.710	18.03	.544	13.82	.573	14.55
8-2	.230	5.84	.490	4.31	.710	18.03	.544	13.82	.573	14.55
8-13	.230	5.84	.490	12.45	.710	18.03	.544	13.82	.573	14.55
9-19	.342	8.69	.600	15.24	.800	20.32	.603	15.32	.635	16.13

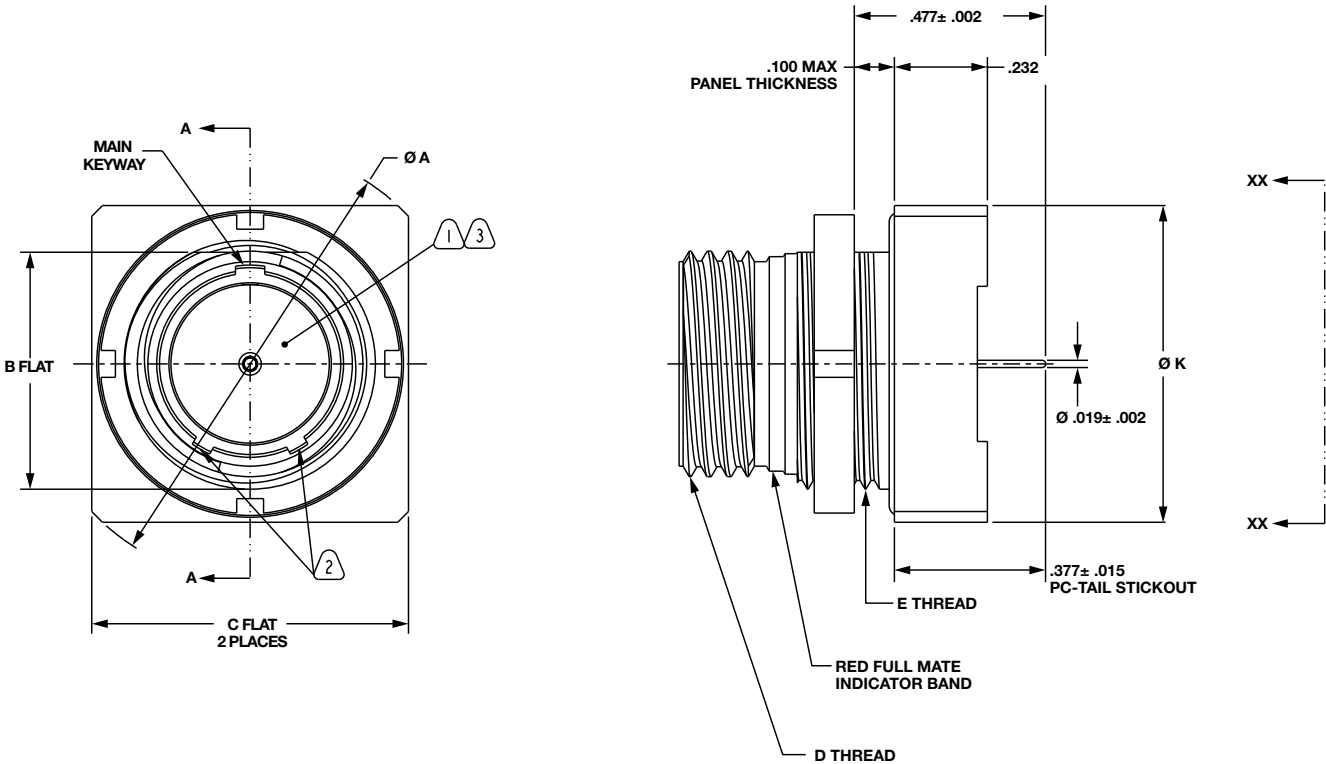


2M801

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2M801 Dual-Start PCB Jam Nut, Double Flange

Receptacle 2M801-075



Shell Size	A Dia.		B Flat		C Flat		D Thread	E Thread	K Dia.	
	in.	mm.	in.	mm.	in.	mm.			in.	mm.
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.3750-28	.844	21.43
6	.635	16.13	.410	10.41	.595	15.11	.3750-.05P-.1L-2A	.4375-28	.900	22.86
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-.1L-2A	.5625-32	NA	NA
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32	NA	NA
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.6250-28	1.000	25.4
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28	NA	NA
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.8750-28	NA	NA
16	1.264	32.11	1.022	25.96	1.230	31.24	1.0000-.1P-.2L-2A	1.0625-20	NA	NA
17	1.325	33.66	1.096	27.84	1.290	32.77	1.0625-.1P-.2L-2A	1.1250-28	NA	NA
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.3750-28	NA	NA

2M801 Protection Caps

Ordering Guide for Metal Protection Cap 2M667-217 and 218

2M801 Double Start Protective Caps are available in plug and receptacle versions. Protective caps keep the connector interface dry and clean while not in use. Caps come in a variety of materials, lanyard styles and lengths to accommodate specific design requirements.

2M801 FEATURES INCLUDE:

- Aluminum or Stainless Steel Bodies
- Rubber Gaskets for Environmental Sealing
- Stainless Steel Fittings
- Variety of attachments



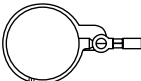
1.	2.	3.	4.	5.	6.
SERIES	SERVICE CLASS	ATTACHMENT TYPE	CONNECTOR SHELL SIZE	ATTACHMENT CODE	ATTACHMENT LENGTH IN INCHES
2M667-21X	-NF	-S	5	04	-5

1. SERIES	
Part #	Description
2M667-217	Protection Caps 2M801 Plugs
2M667-218	Protection Caps 2M801 Receptacles

4. CONNECTOR SHELL SIZE	
Part #	
5	
6	
7	
8	
9	
10	
13	
16	
17	
21	

2. SERVICE CLASS			
Material	Part #	Description	RoHS
ALUMINUM	-C	Black Anodized (Non-conductive)	
	-M	Electroless Nickel	
	-NF	Olive Drab Cadmium	
	-MT	Durmalon (Ni PTFE)	
	-ZN	Olive Drab Zinc Nickel	
	-ZNU	Black Zinc Nickel	
STAINLESS STEEL	-Z1	Passivated	
	-ZM	Electroless Nickel	

3. ATTACHMENT TYPE		
	Part #	Description
	-G	Nylon Rope
	-H	Stainless Steel Wire Rope, Teflon® Jacket
	-N	No Attachment
	-S	Stainless Steel Sash Chain
	-SK	Nylon Rope With Slip Knot
	-T	Stainless Steel Wire Rope, No Jacket
	-U	Stainless Steel Wire Rope, Polyurethane Jacket

5. ATTACHMENT CODE			
		Omit for attachment Types N (No Attachment) and SK (Slip Knot)	
	Small Ring	01	-.126 (3.20) I.D.
		02	-.145 (3.68) I.D.
		04	-.188 (4.78) I.D.
		06	-.197 (5.00) I.D.
			For Shell Size
	Large Ring	14	-.385 (9.78) I.D. 5
		15	-.445 (11.30) I.D. 6
		16	-.570 (14.48) I.D. 7, 8
		17	-.635 (16.13) I.D. 9
		18	-.695 (17.65) I.D. 10
		19	-.885 (22.48) I.D. 13
		20	-1.070 (27.17) I.D. 16
		21	-1.135 (28.83) I.D. 17
	Split Ring	24	-1.375 (34.94) I.D. 21
		50	-.420 (10.67) I.D.
		52	-.480 (12.19) I.D.
		54	-.635 (16.13) I.D.
		56	-.745 (18.92) I.D.
		58	-.885 (22.48) I.D.
		60	-1.010 (25.65) I.D.
		64	-1.125 (28.58) I.D.
		68	-1.345 (34.16) I.D.

5. ADDITIONAL ATTACHMENT CODE		
	Large Ring	22 -1.210 (30.73) I.D.
		25 -1.530 (38.86) I.D.
		23 -1.275 (32.39) I.D.

6. ATTACHMENT LENGTH IN INCHES	
-5	Inch Length
Omit for attachment Type N (No Attachment) Example "-5" equals five inch length	

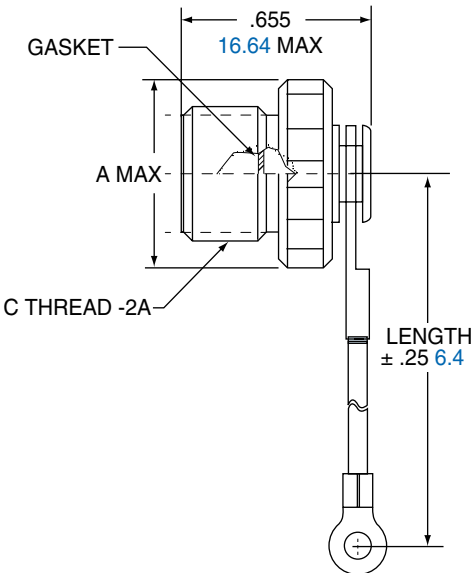
Assembly Instructions for Protection Cap, see page 100.

2M801 Dual-Start ACME Threads

Metal Protective Cap 2M667-217



2M667-217 (PLUG)



Shell Size	A Max.		B Max.		C
	in.	mm.	in.	mm.	
5	.463	11.76	.550	13.97	.3125-.05P-1L
6	.523	13.28	.613	15.57	.3750-.05P-1L
7	.588	14.94	.700	17.78	.4375-.05P-1L
8	.648	16.46	.758	19.25	.5000-.05-.1L
9	.713	18.11	.813	20.65	.5625-.05P-.1L
10	.773	19.63	.893	22.68	.6250-.05P-1L
13	.963	24.46	1.063	27.00	.8125-.1P-.2L
16	1.148	29.16	1.257	31.93	1.0000-.1P-.2L
17	1.213	30.81	1.313	33.35	1.0625-.1P-.2L
21	1.473	37.41	1.563	39.70	1.3125-.1P-.2L

MATERIALS	
Cover	Aluminum alloy or stainless steel
Gasket	Silicone rubber
Wire, Hardware	Stainless steel, passivated

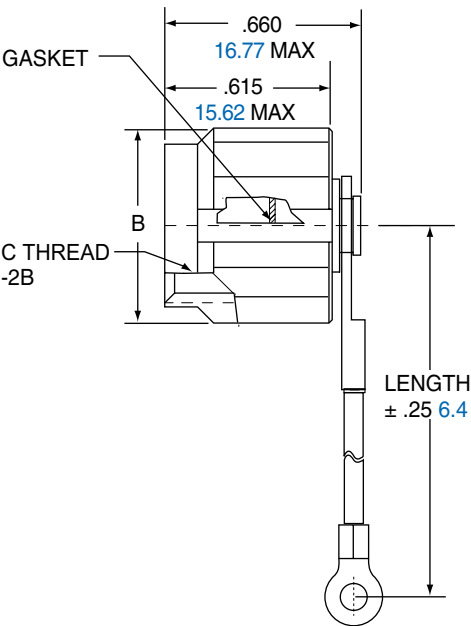
2M801

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2M801 Dual-Start ACME Threads

Metal Protective Cap 2M667-218

2M667-218 (RECEPTACLE)



Shell Size	A Max.		B Max.		C
	in.	mm.	in.	mm.	
5	.463	11.76	.550	13.97	.3125-.05P-1L
6	.523	13.28	.613	15.57	.3750-.05P-1L
7	.588	14.94	.700	17.78	.4375-.05P-1L
8	.648	16.46	.758	19.25	.5000-.05-.1L
9	.713	18.11	.813	20.65	.5625-.05P-.1L
10	.773	19.63	.893	22.68	.6250-.05P-1L
13	.963	24.46	1.063	27.00	.8125-.1P-.2L
16	1.148	29.16	1.257	31.93	1.0000-.1P-.2L
17	1.213	30.81	1.313	33.35	1.0625-.1P-.2L
21	1.473	37.41	1.563	39.70	1.3125-.1P-.2L

MATERIALS	
Cover	Aluminum alloy or stainless steel
Gasket	Silicone rubber
Wire, Hardware	Stainless steel, passivated

Mouser Electronics

Authorized Distributor

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