

2M804 Push-Pull Crimp Receptacles

Ordering Guide for 2M804-001, 002, 003, 004



1.	2.	3.	4.	5.	6.	7.
SERIES	SHELL STYLE	SERVICE CLASS	SHELL SIZE-INSERT ARRANGEMENT	CONTACTS	KEYING	SUFFIX
2M804-00X	-06	ZNU	6-7	P	A	

1. SERIES

Type	Part #	Description
CRIMP	PLUGS	
	2M804-001	Plug with Integral Backshell
	2M804-002	Plug with Accessory Threads
	RECEPTACLE	
	2M804-003	Receptacle with Integral Backshell
PCB/SOLDER	2M804-004	Receptacle with Accessory Threads
	PCB/SOLDER RECEPTACLES	
	2M804-005	Receptacle w/ Epoxy Potting
	2M804-020	Receptacle for Open Face Immersion
	2M804-025	Receptacle with Standoff Flange for Mechanical PCB Strain Relief
	PCB/SOLDER PLUGS	
	2M804-009	Plugs with Solder Cup or PCB termination with Standard Epoxy Potting
	2M804-021	Plugs 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 -65°C to 150°C.

2. SHELL STYLE RECEPTACLE

Part #	Description
PLUGS	
-06	Plug
RECEPTACLE	
-00	Jam Nut* for Front Panel
-01	In-Line
-07	Jam Nut* for Rear Panel
PCB/SOLDER RECEPTACLES	
-00	Jam Nut* for Front Panel Mounting
-07	Jam Nut* Rear Panel Mounting
PCB/SOLDER PLUGS	
-00	Jam Nut for Front Panel mounting
-07	Jam Nut for Rear Panel Mounting
-02	Flange Mount, Rear Panel

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

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

4. SHELL SIZE-INSERT ARRANGEMENT

See Table on pages 7-20

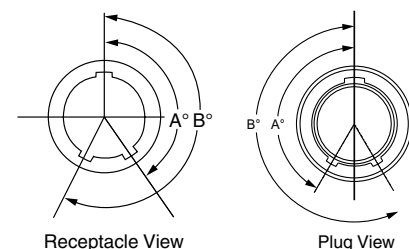
3. SERVICE CLASS

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	

6. KEYING*

Part #	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

*For single master key omit (leave blank)



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

Contact Amphenol Aerospace for more information at 800-678-0141 • www.amphenol-aerospace.com

2M804

D

2M804 Push-Pull Quick-Disconnect

Connector Weights

2M804

D

SERIES 2M804 WEIGHTS IN GRAMS				
Insert Arrg.	Plug	Jam Nut Receptacle		In-Line Receptacle
		Rear Mount	Front Mount	
5-3P	2.2	8.0	9.7	4.0
5-3S	2.4	8.3	9.8	4.1
6-1P	3.1	7.2	11.8	5.2
6-1S	3.4	7.5	12.1	5.5
6-4P	2.8	8.8	11.4	4.8
6-4S	3.0	9.0	11.6	5.1
6-7P	3.0	9.1	11.7	5.3
6-7S	3.2	9.5	12.0	5.5
7-1P	3.7	11.1	16.4	10.1
7-1S	4.3	11.7	16.9	10.7
7-10P	3.7	10.9	16.2	10.0
7-10S	4.2	11.3	16.5	10.3
8-2P	5.0	10.9	13.5	8.0
8-2S	5.7	5.7	11.7	9.0
8-13P	4.3	10.6	12.4	7.4
8-13S	4.8	11.0	13.0	8.1
8-200P	5.3	11.2	13.9	8.4
8-200S	6.1	12.0	14.6	9.1
9-4P	5.7	15.2	21.1	11.0
9-4S	6.7	16.2	22.1	12.0
9-19P	4.6	14.1	20.0	9.9
9-19S	4.8	14.9	21.1	9.8
9-200P	5.2	14.6	20.6	10.5
9-200S	6.3	15.7	21.7	11.6
9-201P	5.8	15.3	21.2	11.1
9-201S	6.9	16.4	22.3	12.2
10-5P	7.3	15.5	23.3	11.9
10-5S	8.7	16.9	24.8	13.3
10-26P	5.4	13.6	20.5	10.1
10-26S	6.2	13.9	21.1	10.5
10-200P	6.2	14.4	22.2	10.8
10-200S	7.6	15.8	23.7	12.2
10-201P	6.3	14.5	22.3	10.9
10-201S	7.7	16.0	23.8	12.3
10-202P	6.3	14.5	22.3	10.9
10-202S	7.8	16.1	23.9	12.4
12-2P	10.7	21.5	26.1	20.8
12-2S	12.3	23.1	27.7	22.4
12-3P	11.7	22.4	27.1	21.8
12-3S	13.4	24.2	28.8	23.4
12-7P	11.9	22.7	27.3	22.0

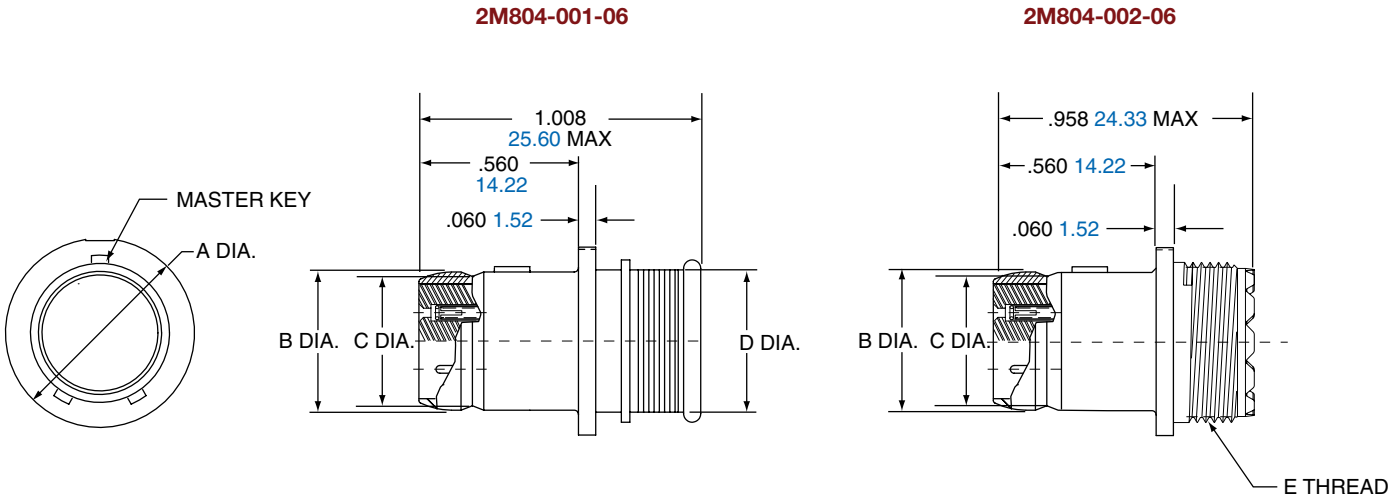
SERIES 2M804 WEIGHTS IN GRAMS				
Insert Arrg.	Plug	Jam Nut Receptacle		In-Line Receptacle
		Rear Mount	Front Mount	
12-7S	14.5	25.3	29.9	24.6
12-37P	10.1	21.5	25.5	22.4
12-37S	11.8	23.1	27.2	22.1
12-200P	10.3	21.1	25.7	20.5
12-200S	12.5	23.3	27.9	22.7
12-201P	10.7	21.5	26.1	22.8
12-201S	13.0	23.8	28.4	23.1
14-5P	15.4	28.3	33.6	26.3
14-5S	18.4	31.2	36.5	29.3
14-12P	16.2	29.0	34.3	27.1
14-12S	19.8	32.7	38.0	30.7
14-55P	12.8	25.6	30.9	23.7
14-55S	15.6	28.3	33.8	26.5

SERIES 2M804 UNMATE FORCE		
Layout	Average Force	
	Pounds	Newtons
5-3	10.6	47.1
6-4	10.8	48.0
6-7	11.4	50.7
7-10	12.0	53.4
8-13	12.6	56.0
9-19	13.8	61.4
10-26	15.2	67.6
12-37	17.4	77.4
14-55	21.0	93.4

Note: Contact Amphenol if modified force values are needed.

2M804 Push-Pull Plug Connector

2M804-001-06 and 2M804-002-06

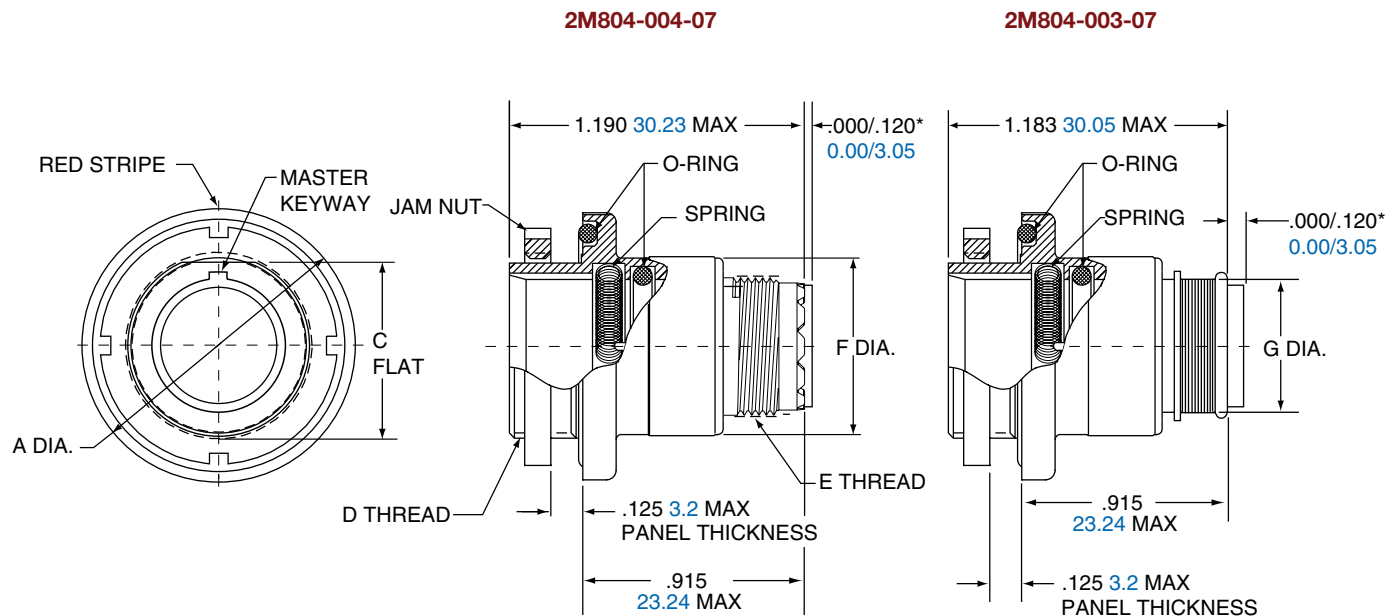


Shell Size	A Dia.		B Dia.		C Dia.		D Dia.		E Thread UNEF-2A
	in.	mm	in.	mm.	in.	mm	in.	mm.	
5	.418	10.62	.245	6.22	.218	5.54	.248	6.30	.2500-32
6	.488	12.40	.310	7.87	.275	6.99	.293	7.44	.3125-32
7	.561	14.25	.378	9.60	.350	8.89	.388	9.86	.4375-28
8	.603	15.32	.426	10.82	.395	10.03	.448	11.38	.5000-28
9	.663	16.84	.482	12.24	.450	11.43	.503	12.78	.5625-24
10	.743	18.87	.555	14.10	.525	13.34	.563	14.30	.6250-24
12	.851	21.62	.672	17.07	.642	16.31	.653	16.59	.6875-24
14	.978	24.84	.795	20.19	.761	19.33	.803	20.40	.9375-20
15	1.038	26.37	.863	21.92	.837	21.26	.853	21.67	.9375-20

2M804 Push-Pull Jam Nut Rear Panel

2M804-003-07 and 2M804-004-07

2M804

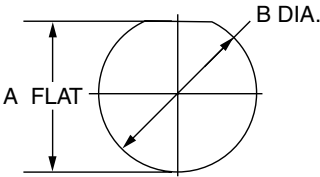


*Grommet protrudes for power/combo arrangements

Shell Size	A Dia.		C Flat		D Thread UN-2A	E Thread UNEF-2A	F Dia.		G Dia.	
	in.	mm	in.	mm			in.	mm.	in.	mm.
5	.773	19.63	.414	10.52	.4375-32	.2500-32	.448	11.38	.248	6.30
6	.833	21.16	.468	11.89	.5000-32	.3125-32	.513	13.03	.293	7.44
7	.903	22.94	.593	15.06	.6250-28	.4375-28	.573	14.55	.388	9.86
8	.958	24.33	.593	15.06	.6250-28	.5000-28	.596	15.14	.448	11.38
9	.998	25.35	.653	16.59	.6875-28	.5625-24	.691	17.55	.503	12.78
10	1.083	27.51	.721	18.31	.7500-28	.6250-24	.728	18.49	.563	14.30
12	1.183	30.05	.843	21.41	.8750-28	.6875-24	.883	22.43	.653	16.59
14	1.323	33.60	.968	24.59	1.0000-28	.9375-20	1.003	25.48	.803	20.40
15	1.373	34.87	1.036	26.31	1.0625-20	.9375-20	1.063	27.00	.853	21.67

JAM NUT PANEL CUTOUT

Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65
15	1.043	26.49	1.073	27.25



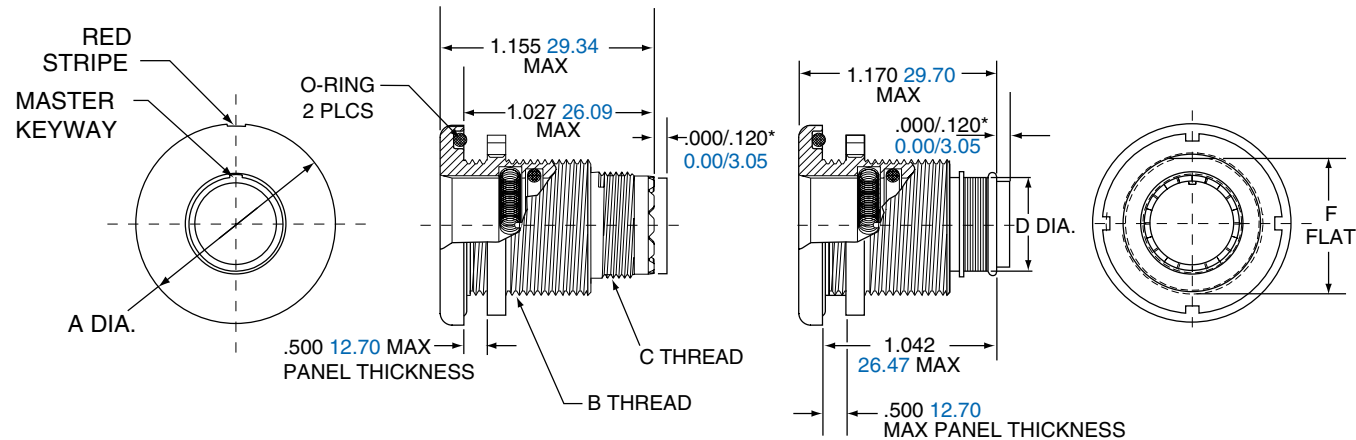
2M804 Push-Pull Jam Nut Front Panel Recept.

2M804-003-00 and 2M804-004-00



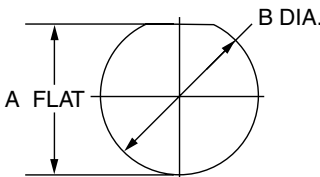
2M804-004-00

2M804-003-00



*Grommet protrudes for power/combo arrangements

Shell Size	A Dia.		B Thread UN-2A	C Thread UNEF-2A	D Dia.		F Flat.	
	in.	mm			in.	mm.	in.	mm.
5	.830	21.08	.5000-32	.2500-32	.248	6.30	.470	11.94
6	.884	22.45	.5625-32	.3125-32	.293	7.44	.529	13.44
7	.994	25.25	.6875-28	.4375-28	.388	9.86	.663	16.84
8	.994	25.25	.6875-28	.5000-28	.448	11.38	.663	16.84
9	1.073	27.25	.7500-28	.5625-24	.503	12.78	.719	18.26
10	1.138	28.91	.8125-28	.6250-24	.563	14.30	.778	19.76
12	1.338	33.96	1.0000-28	.6875-24	.653	16.59	.969	24.61
14	1.388	35.26	1.0625-20	.9375-20	.803	20.40	1.019	25.88
15	1.453	36.91	1.1250-28	.9375-20	.853	21.67	1.113	28.27



PANEL CUTOUT

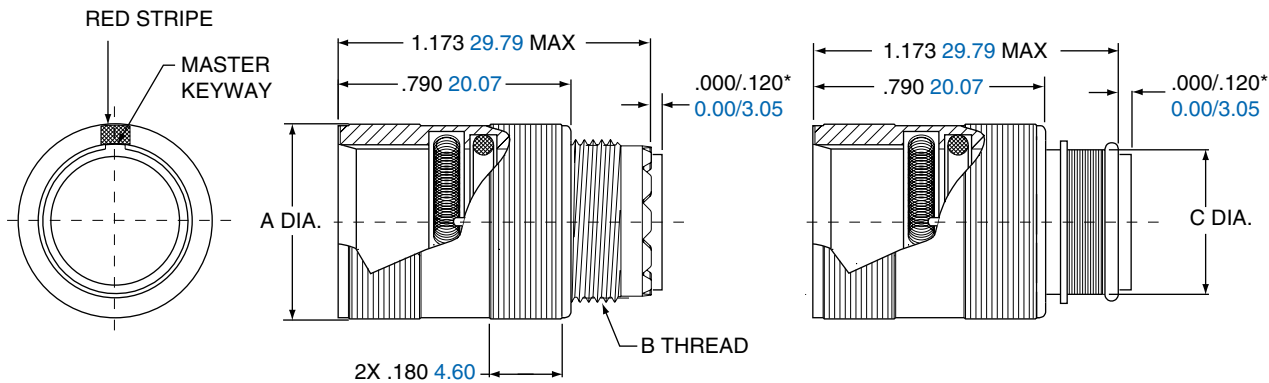
Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.477	12.12	.510	12.95
6	.537	13.64	.573	14.55
7	.670	17.02	.698	17.73
8	.670	17.02	.698	17.73
9	.727	18.47	.760	19.30
10	.787	20.19	.823	20.90
12	.977	24.82	1.010	25.65
14	1.027	26.09	1.073	27.25
15	1.121	28.47	1.135	28.83

2M804 Push-Pull In-Line Receptacle

2M804-003-01 and 2M804-004-01

2M804-004-01

2M804-003-01



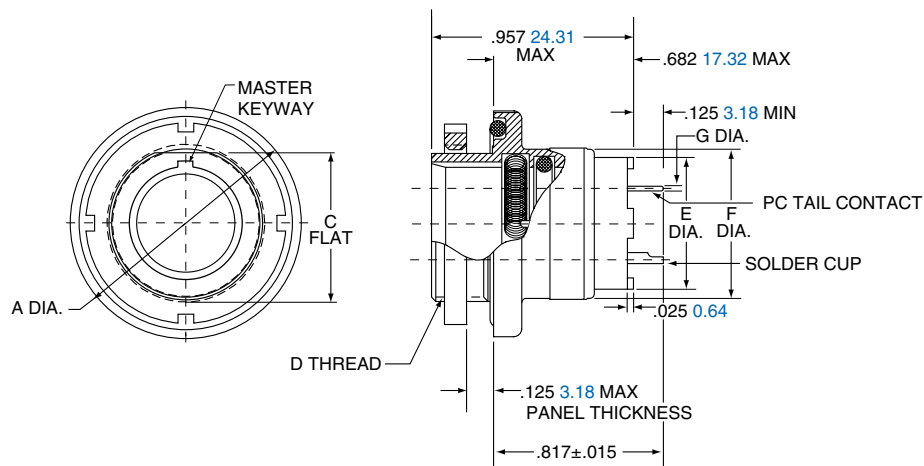
*Grommet protrudes for power/combo arrangements

Shell Size	A Dia.		B Thread UNEF-2A	C Dia.	
	in.	mm		in.	mm.
5	.453	11.51	.2500-32	.248	6.30
6	.523	13.28	.3125-32	.293	7.44
7	.583	14.81	.4375-28	.388	9.86
8	.606	15.39	.5000-28	.448	11.38
9	.698	17.73	.5625-24	.503	12.78
10	.738	18.75	.6250-24	.563	14.30
12	.883	22.43	.6875-24	.653	16.59
14	1.013	25.73	.9375-20	.803	20.40
15	1.061	26.95	.9375-20	.853	21.67

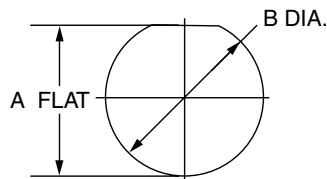
2M804 PCB/ Solder Rear Panel Jam Nut Recpt.
2M804-005-07 and 2M804-020-07



2M804-005-07
2M804-020-07



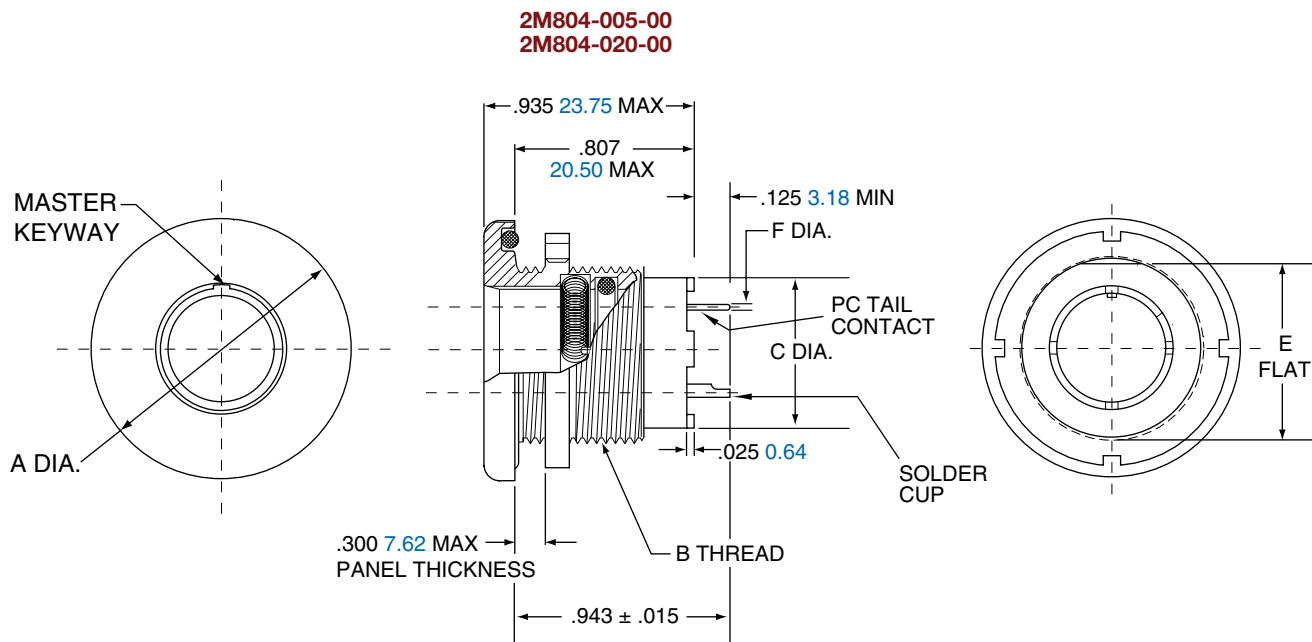
Shell Size	A Dia.		C Flat		D Thread UN-2A	E Dia.		F Dia.		G PC Tail Dia.
	in.	mm.	in.	mm.		in.	mm.	in.	mm.	
5	.773	19.63	.414	10.52	.4375-32	.274	6.96	.448	11.38	#23 .018/.022 0.46/0.56
6	.833	21.16	.468	11.89	.5000-32	.329	8.36	.513	13.03	
7	.903	22.94	.593	15.06	.6250-28	.431	10.95	.573	14.55	
8	.958	24.33	.593	15.06	.6250-28	.493	12.52	.596	15.14	#20/20HD .025/.027 0.64/0.69
9	.998	25.35	.653	16.59	.6875-28	.551	14.00	.691	17.55	
10	1.083	27.51	.721	18.31	.7500-28	.619	15.72	.728	18.49	
12	1.183	30.05	.843	21.41	.8750-28	.703	17.86	.883	22.43	#16 .060/.064 1.52/1.63
14	1.323	33.60	.968	24.59	1.0000-28	.863	21.92	1.003	25.48	
15	1.373	34.87	1.036	26.31	1.0625-20	.913	23.19	1.063	27.00	



JAM NUT PANEL CUTOUT				
Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65
15	1.043	26.49	1.073	27.25

2M804 PCB/ Solder Cup Jam Nut Front Panel
2M804-005-00 and 2M804-020-00

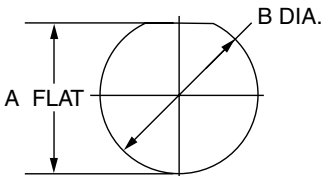
2M804



Shell Size	A Dia.		B Thread UN-2A	C Dia.		E Flat.		F Dia. Tail Dia.
	in.	mm.		in.	mm.	in.	mm.	
5	.830	21.08	.5000-32	.274	6.96	.470	11.94	#23 .018/.022 0.46/0.56
6	.884	22.45	.5625-28	.329	8.36	.529	13.44	#20/20HD .025/.027 0.64/0.69
7	.994	25.25	.6875-28	.431	10.95	.663	16.84	
8	.994	25.25	.6875-28	.493	12.52	.663	16.84	#16 .060/.064 1.52/1.63
9	1.073	27.25	.7500-28	.551	14.00	.719	18.26	
10	1.138	28.91	.8125-28	.619	15.72	.778	19.76	#12 .092/.096 2.34/2.44
12	1.338	33.99	1.0000-28	.703	17.86	.969	24.61	
14	1.388	35.26	1.0625-20	.863	21.92	1.019	25.88	
15	1.453	36.91	1.1250-28	.913	23.19	1.113	28.27	

JAM NUT PANEL CUTOUT

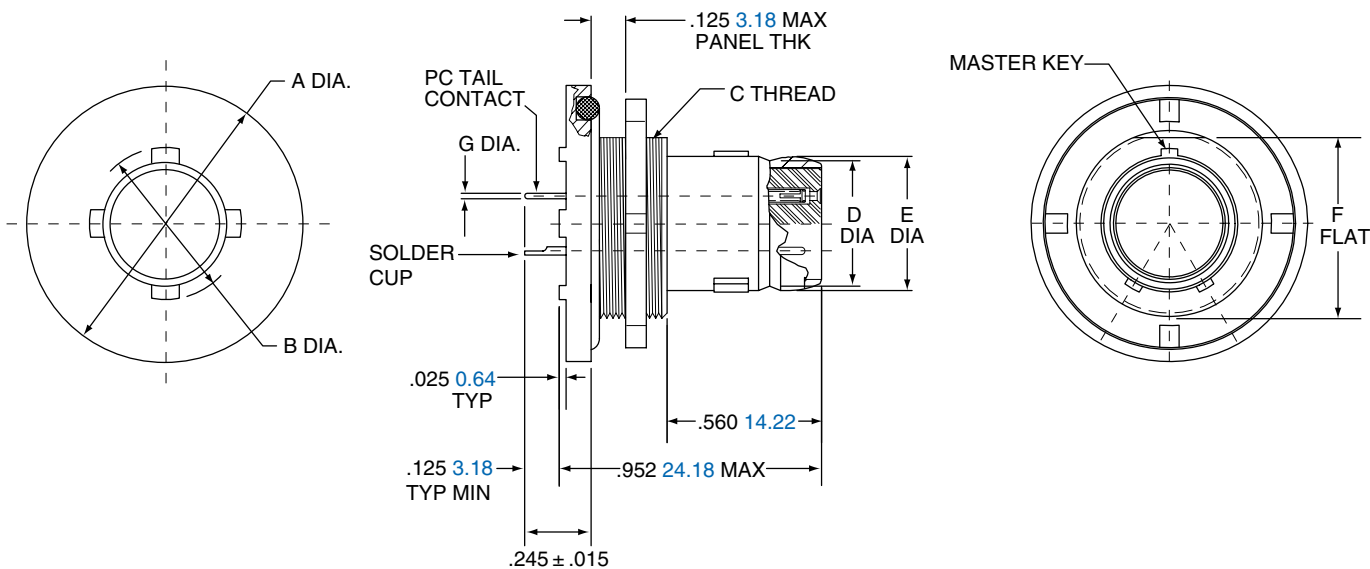
Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.477	12.12	.510	12.95
6	.537	13.64	.573	14.55
7	.670	17.02	.698	17.73
8	.670	17.02	.698	17.73
9	.727	18.47	.760	19.30
10	.787	20.00	.823	20.90
12	.977	24.82	1.010	25.65
14	1.027	26.10	1.073	27.75
15	1.121	28.47	1.135	28.83



2M804 Push-Pull Jam Nut Panel Mount Plug
2M804-009-07 and 2M804-021-07



2M804-009-07
2M804-021-07

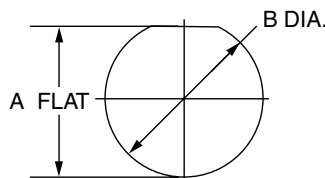


2M804

Shell Size	A Dia.		B Dia.		C Thread UN-2A	D Dia.		E Dia.		F Flat.		G PC Tail Dia.
	in.	mm.	in.	mm.		in.	mm.	in.	mm.	in.	mm.	
5	.773	19.63	.244	6.20	.4375-32	.218	5.54	.245	6.22	.414	10.52	#23 .018/.022 0.46/0.56
6	.833	21.16	.330	8.38	.5000-32	.275	6.99	.310	7.87	.468	11.89	#20/20HD .025/.027 0.64/0.69
7	.903	22.94	.432	10.97	.6250-28	.350	8.89	.378	9.60	.593	15.06	#16 .060/.064 1.52/1.63
8	.958	24.33	.493	12.52	.6250-28	.395	10.03	.426	10.82	.593	15.06	#12 .092/.096 2.34/2.44
9	.998	25.35	.551	14.00	.6875-28	.450	11.43	.482	12.24	.653	16.59	
10	1.083	27.51	.620	15.75	.7500-28	.525	13.34	.555	14.10	.721	18.31	
12	1.183	30.05	.703	17.86	.8750-28	.642	16.31	.672	17.07	.843	21.41	
14	1.323	33.60	.863	21.92	1.0000-28	.761	19.33	.795	20.19	.968	24.59	

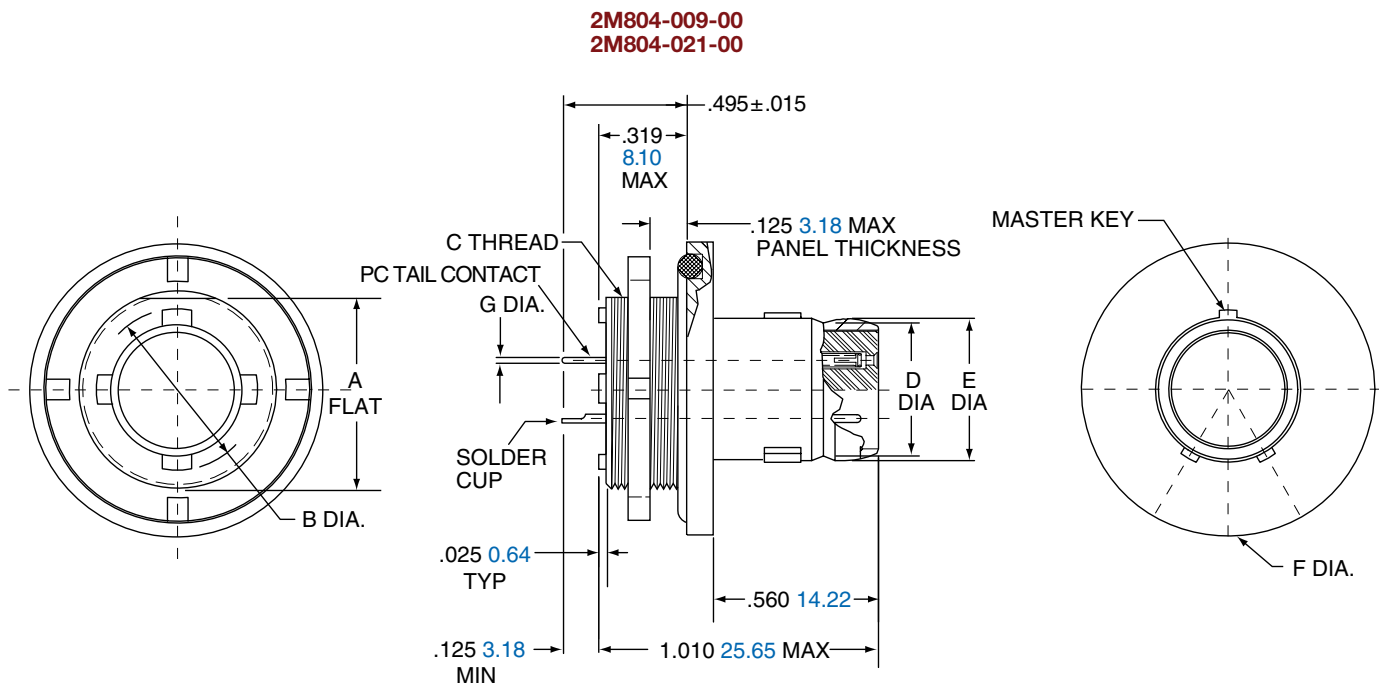
JAM NUT PANEL CUTOUT

Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65

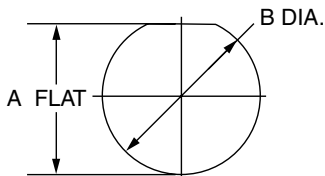


2M804 Push-Pull Jam Nut Front Panel Mount Plug
2M804-009-00 and 2M804-021-00

2M804



Shell Size	A Flat.		B Dia.		C Thread UN-2A	D Dia.		E Dia.		F Dia.		G PC Tail Dia.
	in.	mm.	in.	mm.		in.	mm.	in.	mm.	in.	mm.	
5	.414	10.52	.244	6.20	.4375-32	.218	5.54	.245	6.22	.773	19.63	#23 .018/.022 0.46/0.56
6	.468	11.89	.330	8.38	.5000-32	.275	6.99	.310	7.87	.833	21.16	#20/20HD .025/.027 0.64/0.69
7	.593	15.06	.432	10.97	.6250-28	.350	8.89	.378	9.60	.903	22.94	#16 .060/.064 1.52/1.63
8	.593	15.06	.493	12.52	.6250-28	.395	10.03	.426	10.82	.958	24.33	#12 .092/.096 2.34/2.44
9	.653	16.59	.551	14.00	.6875-28	.450	11.43	.482	12.24	.998	25.35	
10	.721	18.31	.620	15.75	.7500-28	.525	13.34	.555	14.10	1.083	27.51	
12	.843	21.41	.703	17.86	.8750-28	.642	16.31	.672	17.07	1.183	30.05	
14	.968	24.59	.863	21.92	1.0000-28	.761	19.33	.795	20.19	1.323	33.60	



JAM NUT PANEL CUTOUT

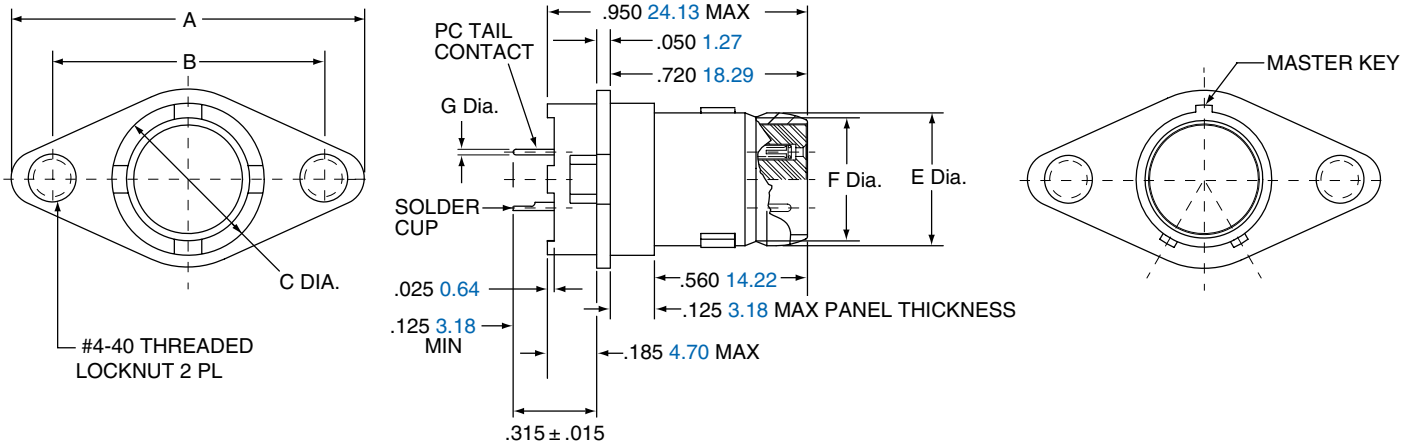
Shell Size	A Flat		B Dia.	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
5	.423	10.74	.448	11.38
6	.475	12.07	.510	12.95
7	.602	15.29	.635	16.13
8	.602	15.29	.635	16.13
9	.663	16.84	.698	17.73
10	.729	18.82	.760	19.30
12	.851	21.62	.885	22.48
14	.976	24.79	1.010	25.65

2M804 Push-Pull Flange Panel Mount Plug

2M804-009-02 and 2M804-021-02



2M804-009-02
2M804-021-02



Shell Size	A		B		C Dia.		E Dia.		F Dia.		G PC Tail Dia.
	in.	mm.	in. ± .005	mm. ± 0.13	in.	mm.	in.	mm.	in.	mm.	
5	1.055	26.80	.755	19.18	.323	8.20	.245	6.22	.218	5.54	#23 .018/.022 0.46/0.56
6	1.120	28.45	.820	20.83	.388	9.86	.310	7.87	.275	6.99	#20/20HD .025/.027 0.64/0.69
7	1.185	30.10	.885	22.48	.453	11.51	.378	9.60	.350	8.89	#16 .060/.064 1.52/1.63
8	1.230	31.24	.930	23.62	.498	12.65	.425	10.80	.395	10.03	#12 .092/.096 2.34/2.44
9	1.290	32.77	.990	25.15	.558	14.17	.482	12.24	.450	11.43	
10	1.360	34.54	1.060	26.92	.628	15.95	.555	14.10	.525	13.34	
12	1.485	37.72	1.185	30.10	.753	19.13	.672	17.07	.642	16.31	
14	1.600	40.64	1.300	33.02	.868	22.05	.795	20.19	.761	19.33	

2M804



REAR MOUNT PANEL CUTOUT

Diagram illustrating the geometry of a shaft cross-section. The shaft has a flat top of thickness J (labeled J FLAT) and a circular body with diameter K (labeled K DIA.).

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