

2M Series Selection Table

2M801, 2M803, 2M804 and 2M805



SERIES	2M801	2M803	2M804	2M805
PAGES	Page 32-50	Pages 51-62	Pages 63-85	Pages 86-102
TYPE	Dual-Start ACME Thread	Bayonet	Push-Pull	Tri-Start ACME Thread
DESCRIPTION	More rugged keys and threads. Faster mating.	Quick-mating, light duty, general purpose. Not rated for immersion, 50 milliohms shell-to-shell resistance.	Breakaway connector for headsets and tactical equipment. Gold-plated spring for long mating life and superior EMI shielding.	"Anti-Decoupling" ratchet mechanism and ground spring for military airframes and avionics boxes. Fast mating.
CONTACTS	1 to 130	1 to 55	1 to 85	1 to 130
COUPLING	Threaded Coupling with 1 1/2 Turns to Full Mate	1/4 turn lock Bayonet	Push, Pull Quick-Disconnect	Tri-Start Thread
WATER IMMERSION, MATED	MIL-STD-810 Method 512 1 Meter for 1 Hour	Splashproof	MIL-STD-810 Method 512 1 Meter for 1 Hour	MIL-STD-810 Method 512 1 Meter for 1 Hour
EMI SHIELDING Ref. page 25	Good	Fair	Very Good	Excellent
VIBRATION AND SHOCK	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock	37 g's Random Vibration; 300 g's Shock
MATING CYCLES	2000 Cycles	250 Cycles Aluminum 2000 Cycles Stainless Steel	2000 Cycles	500 Cycles
ELECTRICAL PERFORMANCE	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC	#12: 23 AMP, 1800 VAC #16: 13 AMP, 1800 VAC #20: 7.5 AMP, 750 VAC #23: 5 AMP, 500 VAC
FILTERED	See page 103 and 104	See page 103 and 104	See page 103 and 104	See page 103 and 104

Crimp Contacts

Contact Size	Type	AMPS	Wire Size AWG	Part Number	Color Band		
					1st	2nd	3rd
#23	Pin	5	#22-#28	2M809-001	N/A	N/A	N/A
	Pin		#26-#30	2M809-042	Blue	N/A	N/A
	Socket		#22-#28	2M809-002	N/A	N/A	N/A
	Socket		#26-#30	2M809-043	Blue	N/A	N/A
#20HD	Pin	7.5	#20-#24	2M809-204	N/A	N/A	N/A
	Socket		#20-#24	2M809-205	N/A	N/A	N/A
#20	Pin	7.5	#20-#24	M39029/58-363	Orange	Blue	Orange
	Socket		#20-#24	M39029/57-357	Orange	Green	Violet
#16	Pin	13	#16-#20	M39029/58-364	Orange	Blue	Orange
	Socket		#16-#20	M39029/57-358	Orange	Green	Gray
#12	Pin	23	#12-#14	M39029/58-365	Orange	Blue	Green
	Socket		#12-#14	M39029/57-359	Orange	Green	White

Contact Tools

Contact Size	Tooling Part Numbers		
	Crimper	Positioner	Military Insertion/ Removal Number (Plastic Tools)
#23	K1461 (Daniels tool)	M22520/2-12	DAK225-22 (Daniels Insertion Only)
			DRK225-22 (Daniels Removal Only)
#20HD	M22520/2-01	2M809-206	N/A
#20	M22520/1-01	M22520/1-04	M81969/14-10
#16	M22520/1-01	M22520/1-04	M81969/14-03
#12	M22520/1-01	M22520/1-04	M81969/14-04

Crimp Tensile Strength

Contact Size	Wire Gage	Silver or Tin Coated Copper Wire	Nickel Coated Copper Wire
#23, #20HD	#22	12	8
#23, #20HD	#24	8	6
#23	#26	5	3
#23	#28	3	2
#23	#30	1.5	1.5

Tensile Strength for size #23 and #20HD only
Values represent minimums and are in pounds

BAND-IT® Shield Termination System:

Band-It® Termination: For assembling cables to overmolded style 2M connectors or backshells The Band-It® system offers quick termination of cable shields and flexibility to be utilized on a wide range of parts with just one band size.

Micro Band Installation Tool. Use with .120" (3.05 mm) wide bands. 6.75 inches (172 mm.) length, 1.2 pounds (0.6 Kg.)

Micro Band, .120" (3.05 mm) wide. Available in two lengths, flat or pre-coiled. Stainless steel.

Description	Part Number
Micro Band Installation Tool	2M600-061

Length		Part Number	Accommodates Diameter	
inch	mm		Inch	mm
8.125	206.38	2M600-057	.88	22.35
14.250	361.95	2M600-083	1.88	47.75



Series 2M Torque Values

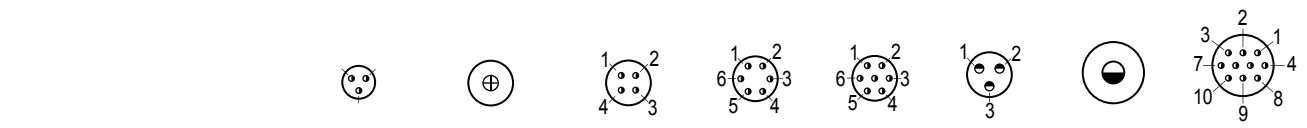
SERIES 2M801, 2M803, 2M805 RECOMMENDED TORQUE VALUES

Shell Size Series 2M801, 2M803	Shell Size Series 2M805	Coupling Torque				Jam Nut Tightening				Backshell Tightening			
		In-LBs.		N-m		In-LBs.		N-m		In-LBs.		N-m	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5	-	25	35	2.8	4.0	20	25	2.2	2.8	13	17	1.5	1.9
6	8	35	40	4.0	4.5	20	25	2.2	2.8	18	22	2.0	2.5
7	9	35	40	4.0	4.5	20	25	2.2	2.8	30	40	3.4	4.5
8	10	40	50	4.5	5.7	20	25	2.2	2.8	30	40	3.4	4.5
9	11	40	50	4.5	5.7	20	25	2.2	2.8	35	45	4.0	5.1
10	12	50	60	5.7	6.8	25	30	2.8	3.3	35	45	4.0	5.1
12, 13	15	50	60	5.7	6.8	25	30	2.8	3.3	35	45	4.0	5.1
14, 16	18	55	65	6.2	7.3	25	30	2.8	3.3	35	45	4.0	5.1
15, 17	19	55	65	6.2	7.3	25	30	2.8	3.3	35	45	4.0	5.1
21	23	55	65	6.2	7.3	25	30	2.8	3.3	35	45	4.0	5.1

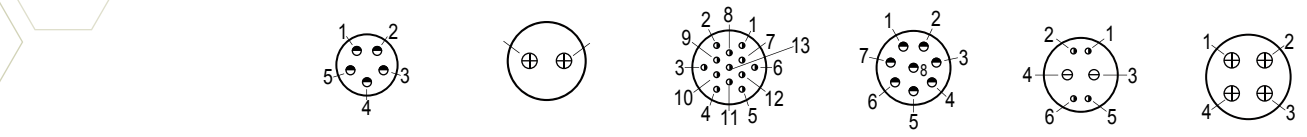
Insert Arrangements

Front face of pin inserts illustrated (Socket Reversed)

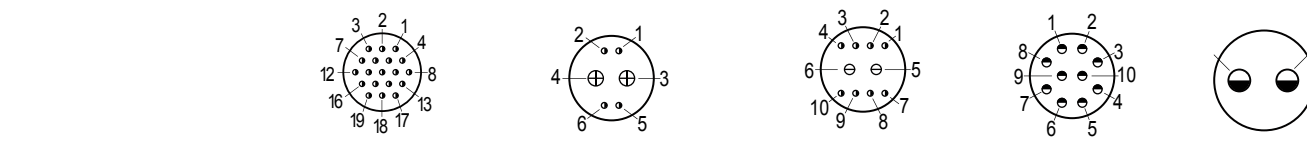
CONTACT LEGEND 12 16 20 20HD 20 23



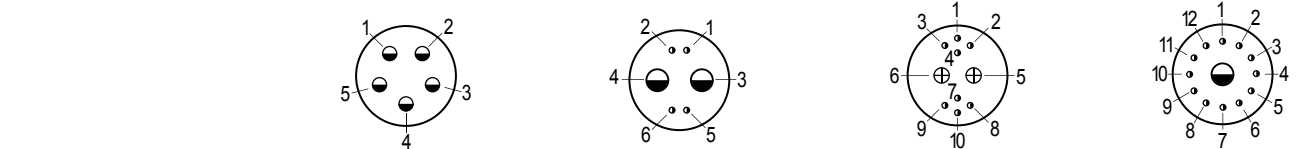
2M801, 2M803, 2M804	5-3	6-1	6-4	6-6	6-7	6-23	7-1	7-10
2M805	NA	8-1	8-4	8-6	8-7	8-23	9-1	9-10
No. of Contacts	3	1	4	6	7	3	1	10
Contact Size	#23	#16	#23	#23	#23	#20HD	#12	#23
DWV Voltage (VAC)	500	1800	500	500	500	750	1800	500
Current Rating (Amps)	5	13	5	5	5	7.5	23	5



2M801, 2M803, 2M804	7-25	8-2	8-13	8-28	8-200	9-4
2M805	9-25	10-2	10-13	10-28	10-200	11-4
No. of Contacts	5	2	13	8	2 4	4
Contact Size	#20HD	#16	#23	#20HD	#20 #23	#16
DWV Voltage (VAC)	750	1800	500	750	1000 500	1800
Current Rating (Amps)	7.5	13	5	7.5	7 5	13



2M801, 2M803, 2M804	9-19	9-200	9-201	9-210	10-2		
2M805	11-19	11-200	11-201	11-210	12-2		
No. of Contacts	19	2	4	2	8	10	2
Contact Size	#23	#16	#23	#20	#23	#20HD	#12
DWV Voltage (VAC)	500	1800	500	1000	500	750	1800
Current Rating (Amps)	5	13	5	7.5	5	7.5	23



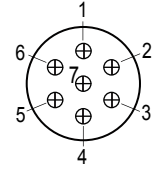
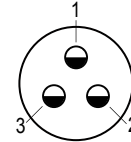
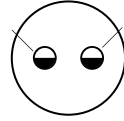
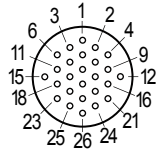
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2M805	12-5	12-201	12-202	12-200			
No. of Contacts	5	2	4	2	8	1	12
Contact Size	#16	#12	#23	#16	#23	#12	#23
DWV Voltage (VAC)	1800	1800	500	1800	500	1800	500
Current Rating (Amps)	13	23	5	13	5	23	5

2M Specs

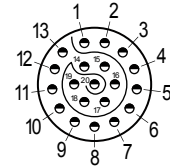
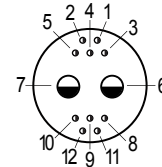
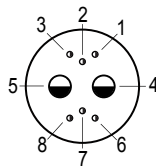
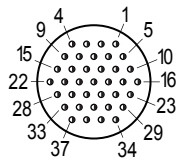
Insert Arrangements

Front face of pin inserts illustrated (Socket Reversed)

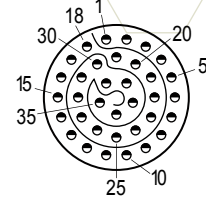
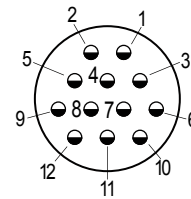
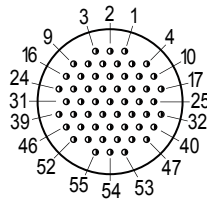
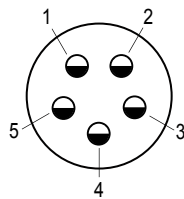
CONTACT LEGEND 12 16 20 20HD 20 23



2M801	10-26	13-2	13-3	13-7
2M803, 2M804	10-26	12-2	12-3	12-7
2M805	12-26	15-2	15-3	15-7
No. of Contacts	26	2	3	7
Contact Size	#23	#12	#12	#16
DWV Voltage (VAC)	500	1800	1800	1800
Current Rating (Amps)	5	23	23	13



2M801	13-37	13-200	13-201	13-220
2M803, 2M804	12-37	12-200	12-201	12-220
2M805	15-37	15-200	15-201	15-220
No. of Contacts	37	2	6	10
Contact Size	#23	#12	#23	#12
DWV Voltage (VAC)	500	1800	500	1800
Current Rating (Amps)	5	23	5	23



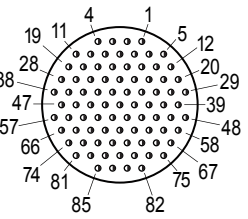
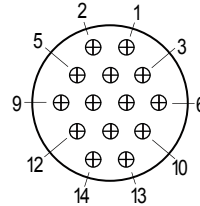
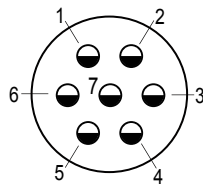
2M801	16-5	16-55	16-12	16-235
2M803, 2M804	14-5	14-55	14-12	14-235
2M805	18-5	18-55	18-12	18-235
No. of Contacts	5	55	12	35
Contact Size	#12	#23	#16	#20HD
DWV Voltage (VAC)	1800	500	1800	750
Current Rating (Amps)	23	5	13	7.5

2M Specs

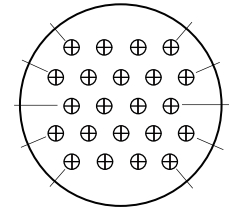
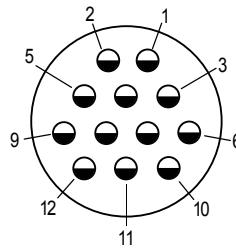
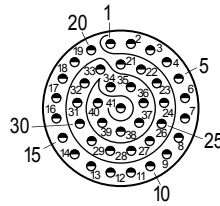
Insert Arrangements

Front face of pin inserts illustrated (Socket Reversed)

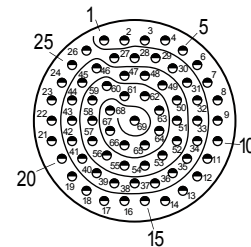
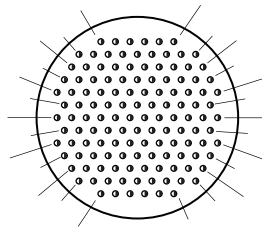
CONTACT LEGEND 12 16 20 20HD 20 23



2M801	17-7	17-14	17-85
2M804			15-85
2M805	19-7	19-14	19-85
No. of Contacts	7	14	85
Contact Size	#12	#16	#23
DWV Voltage (VAC)	1800	1800	500
Current Rating (Amps)	23	13	5



2M801	17-241	21-12	21-22
2M805	19-241	23-12	23-22
No. of Contacts	41	12	22
Contact Size	#20HD	#12	#16
DWV Voltage (VAC)	750	1800	1800
Current Rating (Amps)	7.5	23	13



2M801	21-130	21-269
2M805	23-130	23-269
No. of Contacts	130	69
Contact Size	#23	#20HD
DWV Voltage (VAC)	500	750
Current Rating (Amps)	5	7.5

2M Specs

2M805 Series Micro Miniature Connectors:

Amphenol's 2M805 Series of connectors offers the best EMI and Vibration performance among all the 2M connector series. The series features a Tri-Start thread with 1 turn full mate coupling. An EMI ground strap and shell-to-shell bottoming provide superior EMI shielding. Plugs and Receptacles are provided in two different styles to accommodate the attachment of backshell with rear accessory threads or with integral backshell. The integral backshell allows for use of EMI shielding attachments and/or overmolding. Contact termination styles include Crimp, PC Tail, and Solder Cup with others available upon request. Custom and Filter configurations are available, please consult factory for ordering information.

2M805 FEATURES INCLUDE:

- Anti-Vibration Self locking Plugs
- Tri-Start thread for 1 turn full mating
- Superior EMI shielding
- Sealed Receptacles:
 - Hermetic (1×10^{-6} cc/second)
 - Epoxy Backfilled (1×10^{-4} cc/second)
- ROHS Compliant Plating
- Insert Arrangements up to 130 contacts



2M805 SPECIFICATIONS

Current Rating	See Insert Arrangements (pg. 11-13)
DWV	See Insert Arrangements (pg. 11-13)
Insulation Resistance	5000 megohms min.
Operating Temperature	-55° C to +150° C
Shock	300 g's
Random Vibration	37 g's
Shielding Effectiveness	65 dB min. from 100MHz to 1000MHz
Durability	500 mating cycles

2M805 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

2M805 Tri-Start Threaded Coupling

Connector Weight in Grams

SERIES 2M805 CONNECTOR WEIGHT IN GRAMS

Insert Arrangements	Cable Plug	J/N Recept. Crimp	J/N Recept. PCB	Sq. Flange Recept. Crimp	Sq. Flange Recept. PCB
8-1P	7.5	5.8	5.7	5.8	4.6
8-1S	7.9	6.3	6.2	6.3	5.1
8-4P	8.3	6.6	6.5	6.6	5.4
8-4S	8.8	7.2	7.0	7.2	5.9
8-7P	7.3	5.6	5.5	5.6	4.4
8-7S	7.7	6.1	5.9	6.1	4.8
9-1P	10.9	9.0	9.0	6.8	7.7
9-1S	11.4	9.6	9.6	7.4	8.3
9-10P	10.7	8.8	8.8	6.6	7.5
9-10S	11.6	9.7	9.7	7.5	8.4
10-2P	13.3	10.2	10.3	8.9	9.4
10-2S	14.1	11.0	11.1	9.7	10.1
10-13P	12.7	9.6	9.7	8.3	8.7
10-13S	13.4	10.3	10.5	9.0	9.5
10-200P	13.9	10.8	10.9	9.5	9.9
10-200S	14.7	11.7	11.8	10.3	10.8
11-4P	15.4	12.1	13.1	10.3	11.3
11-4S	16.4	13.1	14.1	11.3	12.3
11-19P	14.3	11.0	12.0	9.2	10.2
11-19S	15.4	12.1	13.1	10.3	11.3
11-200P	14.9	11.6	12.5	9.8	10.8
11-200S	16.0	12.7	13.6	10.9	11.9
11-201P	15.4	12.1	13.1	10.3	11.3
11-201S	16.6	13.3	14.3	11.6	12.5
12-5P	17.6	13.9	16.3	12.2	13.1
12-5S	19.0	15.3	17.7	13.6	14.5
12-26P	15.8	12.1	14.5	10.5	11.3
12-26S	17.4	13.6	16.1	12.0	12.9
12-200P	16.5	12.8	15.2	11.1	12.0
12-200S	17.9	14.2	16.6	12.5	13.4
12-201P	16.6	12.9	15.3	11.2	12.1
12-201S	18.0	14.3	16.7	12.7	13.5

SERIES 2M805 CONNECTOR WEIGHT IN GRAMS

Insert Arrangements	Cable Plug	J/N Recept. Crimp	J/N Recept. PCB	Sq. Flange Recept. Crimp	Sq. Flange Recept. PCB
12-202P	16.6	12.9	15.3	11.2	12.1
12-202S	18.2	14.4	16.8	12.8	13.6
15-2P	20.7	20.2	21.8	17.1	19.5
15-2S	22.3	21.9	23.4	18.7	21.1
15-3P	21.7	21.2	22.8	18.0	20.5
15-3S	23.4	23.0	24.5	19.8	22.2
15-7P	21.9	21.5	23.0	18.3	20.7
15-7S	24.5	24.1	25.6	20.9	23.3
15-37P	20.1	19.7	21.2	16.5	18.9
15-37S	23.0	22.6	24.1	19.4	21.8
15-200P	20.4	19.9	21.5	16.7	19.1
15-200S	22.6	22.1	23.7	18.9	21.3
15-201P	20.7	20.2	21.8	17.1	19.5
15-201S	23.0	22.6	24.1	19.4	21.8
18-5P	29.9	31.6	30.1	26.1	29.0
18-5S	32.9	34.5	33.1	29.0	32.0
18-12P	30.7	32.3	30.9	26.8	29.8
18-12S	34.3	36.0	34.5	30.5	33.4
18-55P	27.3	28.9	27.5	23.4	26.4
18-55S	30.7	32.3	30.9	26.8	29.8
19-7P	27.9	30.0	33.1	25.1	33.0
19-7S	31.0	33.1	36.2	28.2	36.1
19-14P	32.9	35.0	38.1	30.0	38.0
19-14S	32.6	34.7	37.7	29.7	37.6
19-85P	26.6	28.7	31.8	23.8	31.7
19-85S	31.1	33.2	36.3	28.3	36.2
23-17P	40.2	42.9	44.4	36.7	43.9
23-12S	45.2	48.0	49.5	41.8	49.0
23-22P	42.7	45.4	47.0	39.3	46.4
23-22S	49.6	52.4	53.9	46.2	53.4
23-130P	37.8	40.6	42.1	34.4	41.6
23-130S	44.9	47.7	49.3	41.6	48.7

2M805

Series 2M805 Connector

Series	Shell Style	Service Class	Shell Size-Insert Arrg.	Contact Type	Alternate Position
2M805-00X	-16	C	15-37	S	A

SERIES	
2M805-001	Plug with Integral Backshell
2M805-002	Plug with Accessory Thread
2M805-003	Receptacle with Integral Backshell
2M805-004	Receptacle with Accessory Thread

SHELL SIZE - INSERT ARRANGEMENTS

See Insert Arrangements on Pages 11-13



CONTACTS

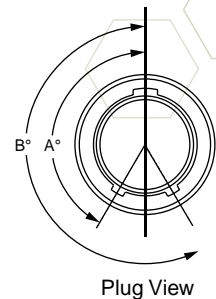
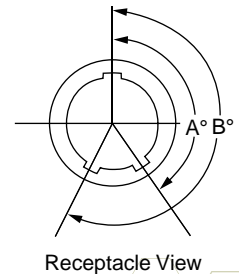
P	Pin Contacts
S	Socket Contacts

SHELL STYLE 2M805-001, 2M805-002	
-16	Plug Connector with Ratcheting Anti-Decoupling Mechanism

SHELL STYLE 2M805-003, 2M805-004	
-01	In-Line Receptacle
-02	Square Flange Receptacle
-07	Jam Nut for Rear Panel Mounting Receptacle

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

Key Position	Key Rotation	
	A	B
Normal A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°



INSERT ARRANGEMENTS

Insert Arrg.	No. of Contacts				
	#23	#20	#20HD	#16	#12
8-1				1	
8-4	4				
8-6	6				
8-7	7				
8-23			3		
9-1					1
9-10	10				
9-25			5		
10-2				2	
10-13	13				
10-28			8		
10-200	4	2			
11-4				4	
11-19	19				
11-200	4			2	
11-201	8	2			
11-210			10		
12-2					2
12-5				5	
12-26	26				
12-200	12				1

INSERT ARRANGEMENTS

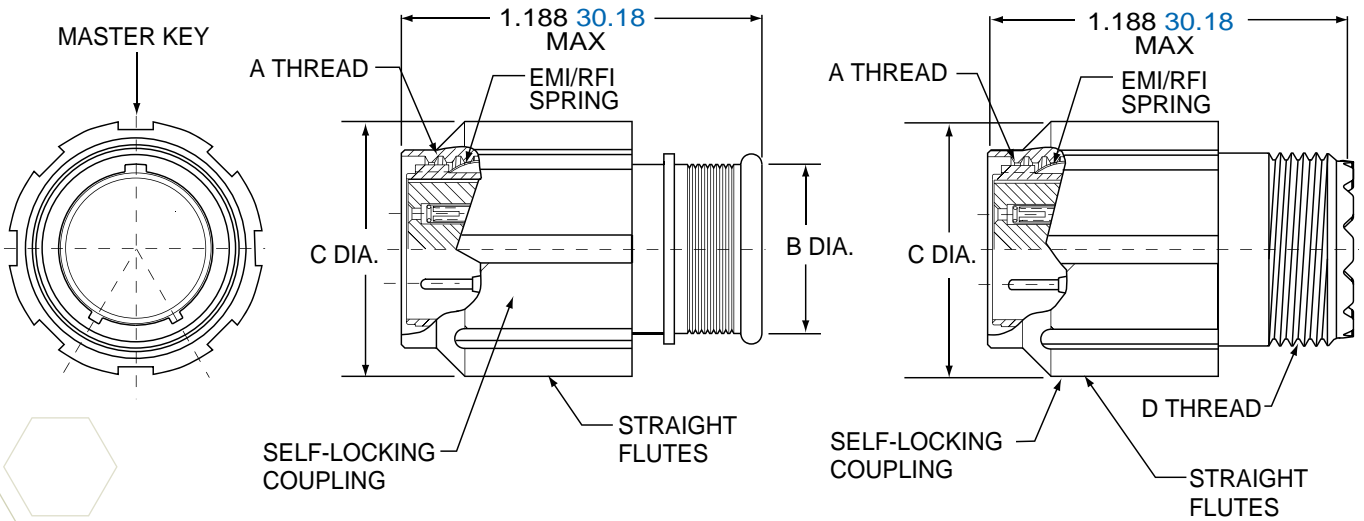
Insert Arrg.	No. of Contacts				
	#23	#20	#20HD	#16	#12
12-201	4				2
12-202	8			2	
15-2					2
15-3					3
15-7				7	
15-37	37				
15-200	6				2
15-201	10				2
15-220			20		
18-5					5
18-12				12	
18-55	55				
18-235			35		
19-7					7
19-14				14	
19-85	85				
19-241			41		
23-12					12
23-22				22	
23-130	130				
23-269			69		

2M805 Tri-Start Plug

2M805-001 and 2M805-002

2M805-001

2M805-002

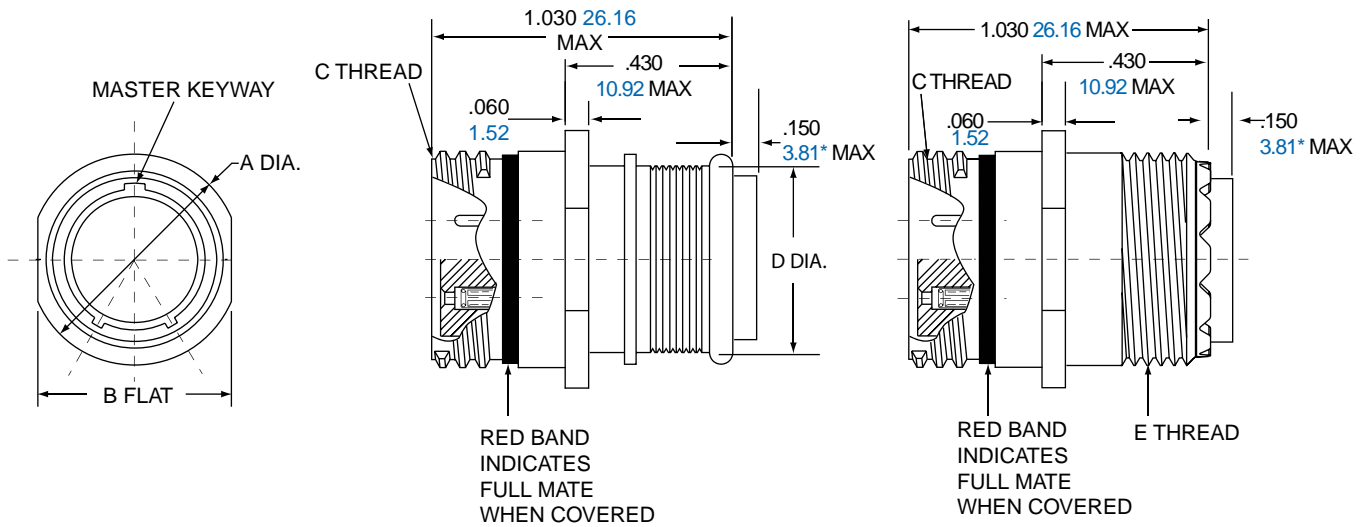


Shell Size	A Threads	B Dia.		C Dia.		D Threads Accessory
		in.	mm.	in.	mm.	
8	.5000.1P-.3L-TS-2B	.317	8.05	.691	17.55	.3750-32 UNEF-2A
9	.5625.1P-.3L-TS-2B	.397	10.08	.787	19.99	.4375-28 UNEF-2A
10	.6250.1P-.3L-TS-2B	.473	12.01	.826	20.98	.5000-28 UNEF-2A
11	.6875.1P-.3L-TS-2B	.519	13.18	.916	23.27	.5625-24 UNEF-2A
12	.7500.1P-.3L-TS-2B	.585	14.86	.982	24.94	.6250-24 UNEF-2A
15	.9375.1P-.3L-TS-2B	.687	17.45	1.097	27.86	.7500-20 UNEF-2A
18	1.1250.1P-.3L-TS-2B	.884	22.45	1.290	32.77	.9375-20 UNEF-2A
19	1.1875.1P-.3L-TS-2B	.884	22.45	1.310	33.27	.9375-20 UNEF-2A
23	1.4375.1P-.3L-TS-2B	1.135	28.83	1.562	39.67	1.1875-18 UNEF-2A

2M805

2M805-003-01

2M805-004-01



* Grommet protrudes for power/combo arrangement

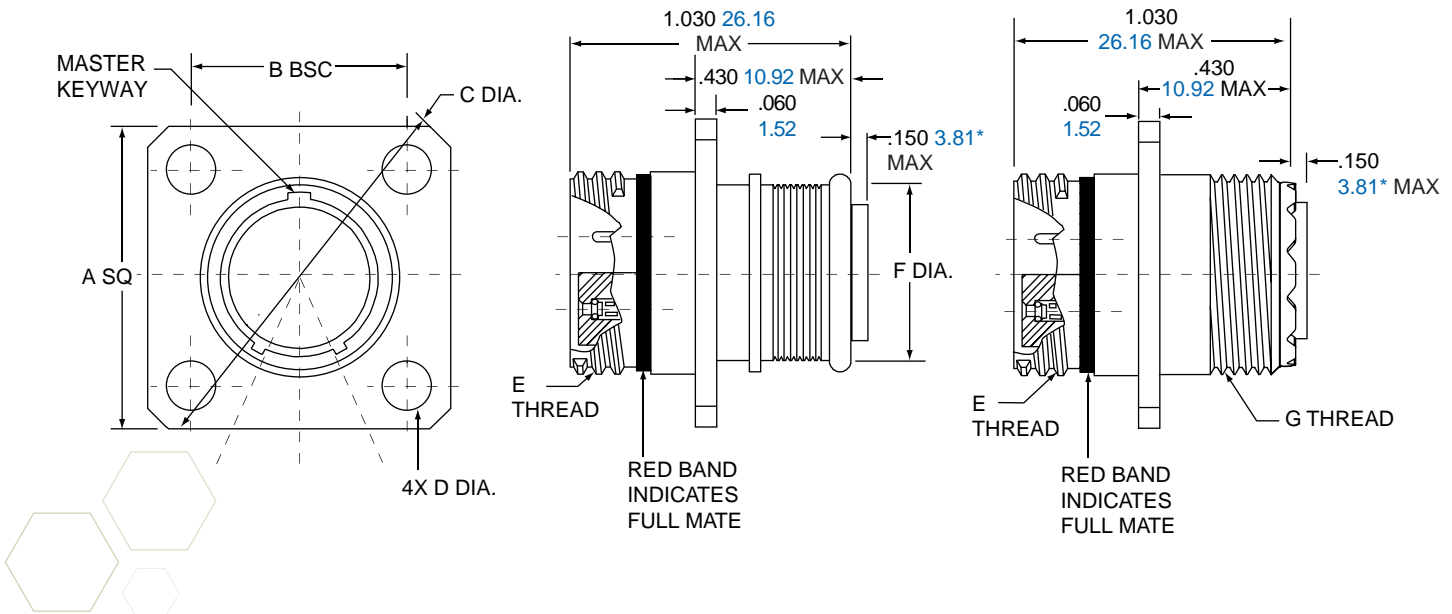
Shell Size	A Dia.		B Flat		C Threads	D Dia.		E Threads Accessory
	in.	mm.	in.	mm.		in.	mm.	
8	.540	13.72	.510	12.95	.5000.1P-.3L-TS-2A	.316	8.05	.3750-32 UNEF-2A
9	.605	15.37	.575	14.61	.5625.1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.668	16.96	.638	16.21	.6250.1P-.3L-TS-2A	.472	12.01	.5000-28 UNEF-2A
11	.730	18.54	.700	17.78	.6875.1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	.793	20.14	.763	19.38	.7500.1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	.980	24.89	.950	24.13	.9375.1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.165	29.59	1.135	28.83	1.1250.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.235	31.37	1.205	30.61	1.1875.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.485	37.72	1.455	39.96	1.4375.1P-.3L-TS-2A	1.134	28.80	1.1875-18 UNEF-2A

2M805 Tri-Start Square Flange Receptacle

2M805-003-02 and 2M805-004-02

2M805-003-02

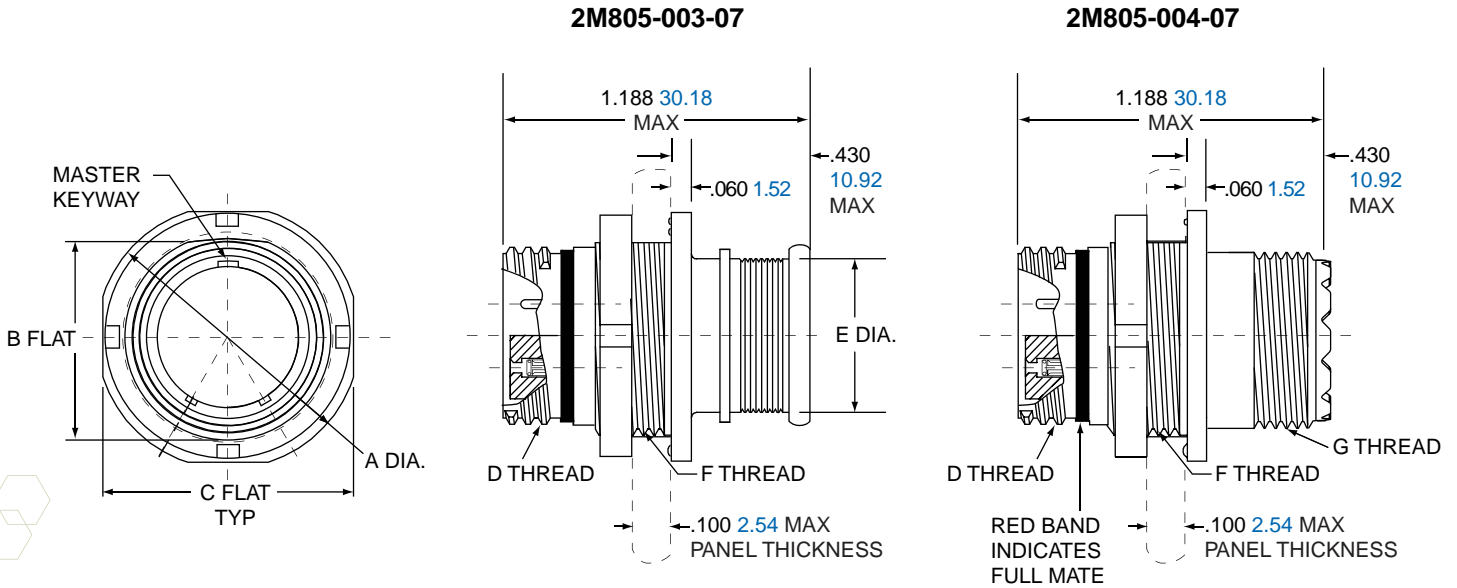
2M805-004-02



* Grommet protrudes for power/combo arrangement

Shell Size	A Sq.		B BSC.		C Dia.		D Dia.		E Threads	F Dia.		G Threads Accessory
	in.	mm.	in.	mm.	in.	mm.	in. ±.003	mm. ±.08		in.	mm.	
8	.850	21.59	.660	16.76	1.150	29.21	.094	2.39	.5000 .1P-.3L-TS-2A	.316	8.05	.3750-32 UNEF-2A
9	.913	23.19	.723	18.36	1.230	31.24	.094	2.39	.5625 .1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.975	24.77	.785	19.94	1.330	33.78	.094	2.39	.6250 .1P-.3L-TS-2A	.472	12.01	.5000-28 UNEF-2A
11	1.039	26.39	.848	21.54	1.410	35.81	.094	2.39	.6875 .1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	1.099	27.91	.909	23.09	1.500	38.10	.094	2.39	.7500 .1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	1.288	32.74	1.058	26.87	1.750	44.45	.128	3.25	.9375 .1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.475	37.47	1.255	31.88	2.000	50.80	.128	3.25	1.1250 .1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.537	71.06	1.327	33.71	2.094	53.19	.128	3.25	1.1875 .1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.787	45.39	1.570	39.88	2.440	61.98	.128	3.25	1.4375 .1P-.3L-TS-2A	1.134	28.80	1.1875-18 UNEF-2A

2M805



2M805

Shell Size	A Dia.		B Flat		C Flat		D Threads	E Dia.		F Threads	G Threads Accessory
	in.	mm.	in.	mm.	in.	mm.		in.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000.1P-.3L-TS-2A	.317	8.05	.5625-28 UNEF-2A	.3750-32 UNEF-2A
9	.880	22.35	.661	16.79	.850	21.59	.5625.1P-.3L-TS-2A	.397	10.08	.6875-28 UN-2A	.4375-28 UNEF-2A
10	.880	22.35	.661	16.79	.850	21.59	.6250.1P-.3L-TS-2A	.473	12.01	.6875-28 UN-2A	.5000-28 UNEF-2A
11	.955	24.26	.721	18.31	.925	23.50	.6875.1P-.3L-TS-2A	.519	13.18	.7500-28 UN-2A	.5625-24 UNEF-2A
12	1.060	26.92	.784	19.91	1.035	26.29	.7500.1P-.3L-TS-2A	.585	14.86	.8125-28 UN-2A	.6250-24 UNEF-2A
15	1.203	30.56	.970	24.64	1.173	29.79	.9375.1P-.3L-TS-2A	.687	17.45	1.0000-28 UN-2A	.7500-20 UNEF-2A
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250.1P-.3L-TS-2A	.884	22.45	1.1875-28 UN-2A	.9375-20 UNEF-2A
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875.1P-.3L-TS-2A	.884	22.45	1.2500-28 UN-2A	.9375-20 UNEF-2A
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375.1P-.3L-TS-2A	1.134	28.80	1.5000-28 UN-2A	1.1875-18 UNEF-2A

PANEL CUTOUT FOR JAM NUT

Shell Size	A Flat		B Dia	
	in. ±.002	mm. ± 0.05	in. ±.005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.231	31.27	1.260	32.00
23	1.480	37.59	1.510	38.35

