



MIL-DTL-83723 Series III Part Number Development Threaded Coupling

Military and Aero-Electric Part Number Development

Mil. Prefix	M83723/	95	R	12	12	N	
Aero Prefix	AE833	95	R	12	12	N	-340
Shell type							
82 = Wall mount receptacle with socket contacts							
83 = Wall mount receptacle with pin contacts							
84 = Jam nut receptacle with socket contacts							
85 = Jam nut receptacle with pin contacts							
86 = Straight plug with socket contacts							
87 = Straight plug with pin contacts							
91 = RFI grounding plug with socket contacts							
92 = RFI grounding plug with pin contacts							
95 = Self-locking plug with socket contacts							
96 = Self-locking plug with pin contacts							
97 = Self-locking, RFI grounding plug with socket contacts							
98 = Self-locking, RFI grounding plug with pin contacts							
68 = Lanyard release, quick-disconnect plug, pin (not available in K & S classes)							
69 = Lanyard release, quick-disconnect plug, socket (not available in K & S classes)							
Class (Material and Finish)							
A = Aluminum shell, black anodized finish (Not available in 91, 92, 97 & 98 RFI plugs)							
G = Stainless steel shell, passivated (n/a in 97 & 98)							
K = Stainless steel shell, passivated, with firewall rated insert (n/a in 91, 92, 97 & 98)							
R = Aluminum shell, electroless nickel finish (n/a in 97 & 98 to mil number)							
W = Aluminum shell, olive drab cadmium over nickel base (n/a in 97 & 98 to mil number)							
S = Stainless steel shell, passivated, full teeth, firewall insert (n/a in 86, 87, 91, 92, 95 & 96)							
Shell Size (SS)							
8, 10, 12, 14, 16, 18, 20, 22 or 24 (and shell size 28 available in Aero p/n only)							
Insert Arrangement							
See pages 106-108							
Polarization (Keying)							
N = Normal							
6, 7, 8, 9 or Y (Alternate keyed positions, Y is not available in SS 8)							
1, 2, 3, 4 or 5 (Clocked insert polarizations within normally keyed shell, not approved for new design, n/a in SS 8)							
Modification (applies to Aero part numbers only)							
01 = Less contacts (Part is bagged and tagged, but not marked with 01)							
340 = Connector kitted with M85049/31-XXX E-nut							
341 = Connector kitted with M85049/52-1-XXX straight clamp							
342 = Connector kitted with M85049/51-1-XXX right angle clamp							
Consult factory for other modifications							

MIL-DTL-83723 S III

Note 1: Each connector is furnished with contacts unless ordered less contacts (L/C) as follows: One spare contact for inserts requiring 2 to 26 of each contact and two spares for inserts with 27 or more of each size, and a minimum of one sealing plug up to 15% of the number of contacts of each size. In addition, one insertion/removal tool of each size is included.

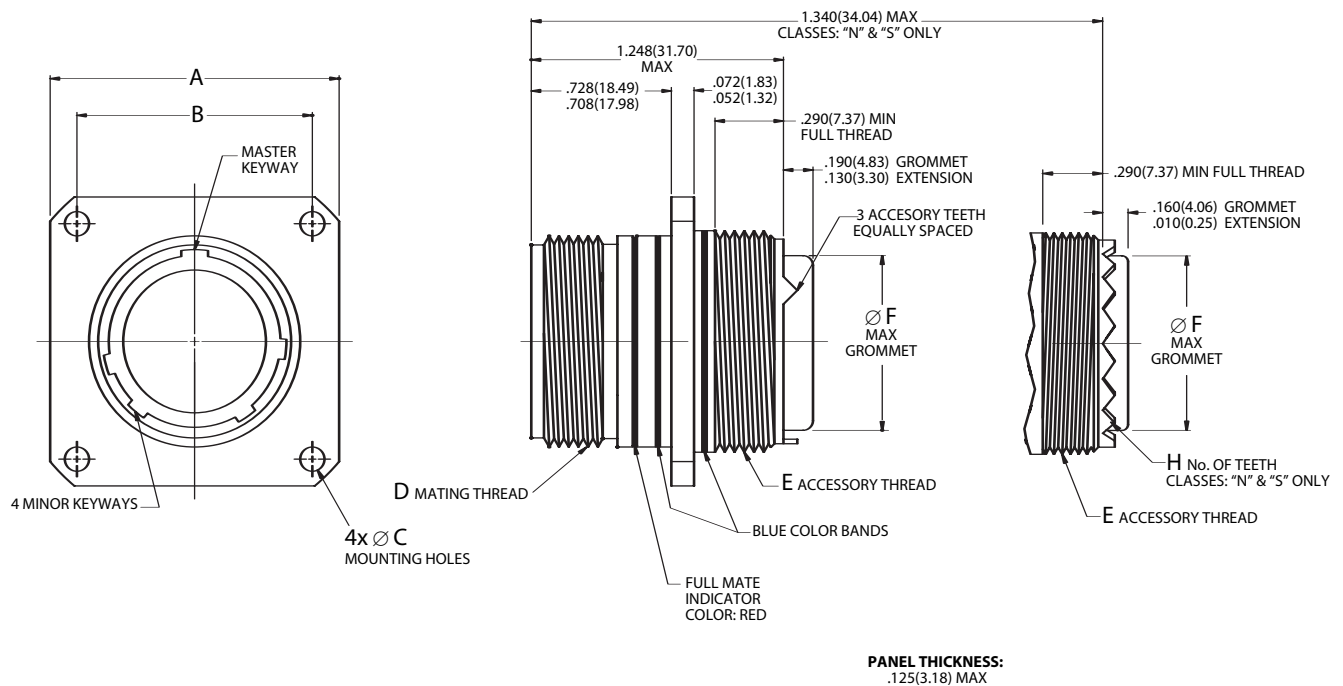
Note 2: Proper part number marking has no “0” in front of single digit shell size (8), but it does include the “0” in front of single digit layout. Examples: M83723/95G803N and M83723/98S10056. Please note that in this series “N” for normal is included in part number marking.

Note 3: Shell type M83723/70 (AE83370 Receptacle Adapter) is not listed above, see page 101.

M83723/82, 83
Wall Mounting Receptacle
AE83382, 83



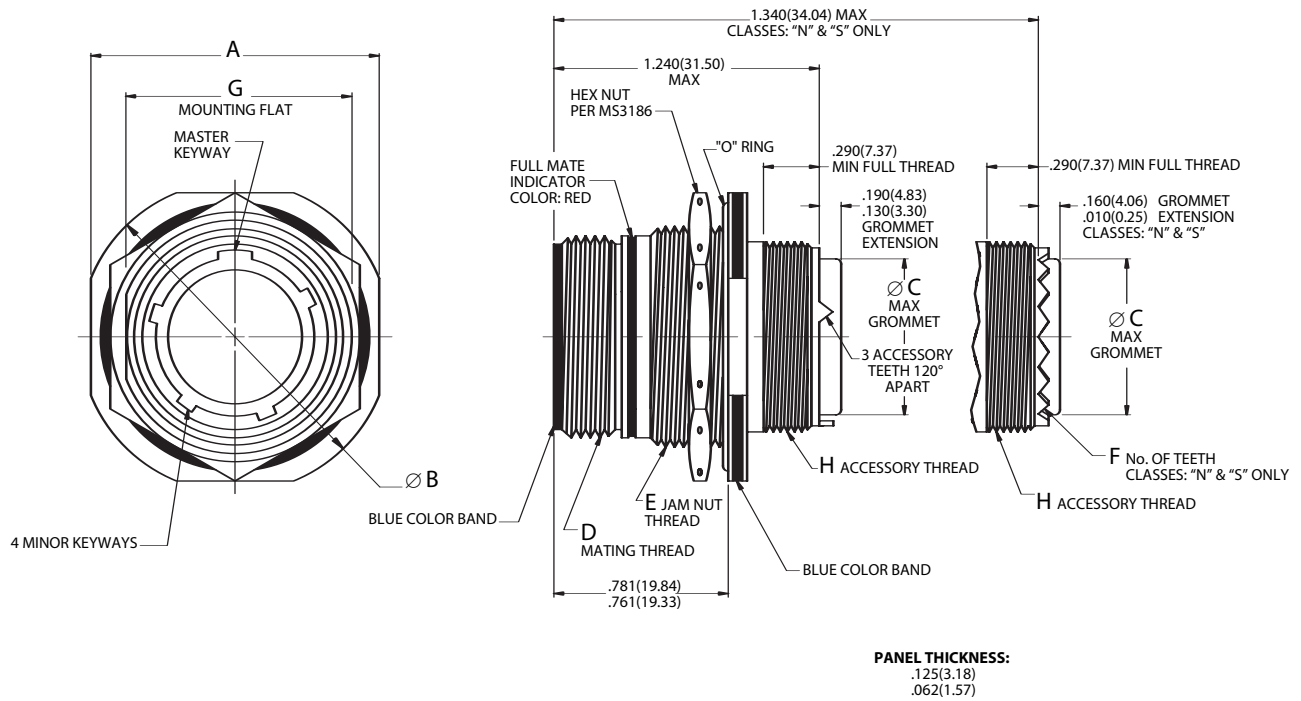
Threaded Coupling, Crimp Removable, Rear Release



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- Page 106 Insert Availability and Contact Information
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Shell Size	A		B		Ø C		D	E	Ø F		H
	±.005	±.13	(TP)		+0.05	+13	Mating Thread	Accessory Thread	Maximum		No. of Teeth
	inch	mm	inch	mm	inch	mm	Class 2A	Class 2A	inch	mm	
8	.812	20.62	.594	15.09	.120	3.05	9/16-24UNEF	1/2-20UNF	.305	7.75	12
10	.937	23.80	.719	18.26	.120	3.05	11/16-24UNEF	5/8-24UNEF	.405	10.29	15
12	1.031	26.19	.812	20.62	.120	3.05	7/8-20UNEF	3/4-20UNEF	.531	13.49	21
14	1.125	28.58	.906	23.01	.120	3.05	15/16-20UNEF	7/8-20UNEF	.665	16.89	24
16	1.250	31.75	.969	24.61	.120	3.05	1-1/16-18UNEF	1-20UNEF	.790	20.07	30
18	1.343	34.11	1.062	26.97	.120	3.05	1-3/16-18UNEF	1-1/16-18UNEF	.869	22.07	33
20	1.437	36.50	1.156	29.36	.120	3.05	1-5/16-18UNEF	1-3/16-18UNEF	.994	25.25	36
22	1.562	39.67	1.250	31.75	.120	3.05	1-7/16-18UNEF	1-5/16-18UNEF	1.119	28.42	39
24	1.703	43.26	1.375	34.93	.149	3.78	1-9/16-18UNEF	1-7/16-18UNEF	1.244	31.60	42
28	2.000	50.80	1.562	39.67	.149	3.78	1-13/16-16UN	1-3/4-18UNS	1.475	37.47	54

Threaded Coupling, Crimp Removable, Rear Release



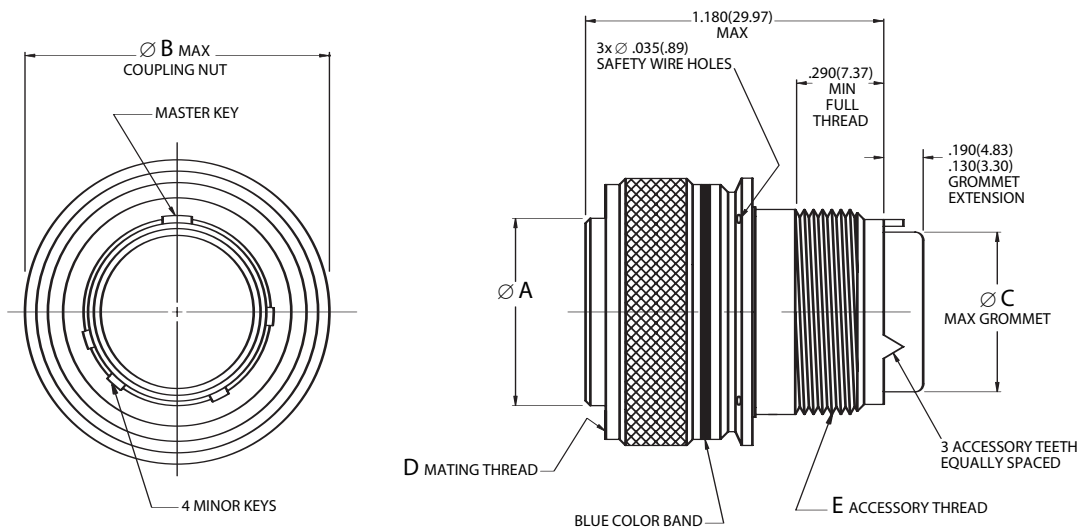
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Shell Size	A		Ø B		Ø C		D	E	F	G		H
	+0.016	+0.41	+0.016	+0.41	Maximum	Mating Thread Class 2A	Jam Nut Thread Class 2A	No. of Teeth	±.003	±.08	Accessory Thread Class 2A	
	-.015	-.38	-.015	-.38								inch
8	.964	24.49	1.062	26.97	.305	7.75	9/16-24UNEF	5/8-20UN	12	.593	15.06	1/2-20UNF
10	1.088	27.64	1.176	29.87	.405	10.29	11/16-24UNEF	3/4-20UNEF	15	.718	18.24	5/8-24UNEF
12	1.275	32.39	1.364	34.65	.531	13.49	7/8-20UNEF	15/16-20UNEF	21	.905	22.99	3/4-20UNEF
14	1.375	34.93	1.545	39.24	.665	16.89	15/16-20UNEF	1-20UNEF	24	.968	24.59	7/8-20UNEF
16	1.500	38.10	1.625	41.28	.790	20.07	1-1/16-18UNEF	1-1/8-18UNEF	30	1.093	27.76	1-20UNEF
18	1.625	41.28	1.750	44.45	.869	22.07	1-3/16-18UNEF	1-1/4-18UNEF	33	1.217	30.91	1-1/16-18UNEF
20	1.750	44.45	1.938	49.23	.994	25.25	1-5/16-18UNEF	1-3/8-18UNEF	36	1.342	34.09	1-3/16-18UNEF
22	1.938	49.23	2.062	52.37	1.119	28.42	1-7/16-18UNEF	1-1/2-18UNEF	39	1.467	37.26	1-5/16-18UNEF
24	2.063	52.40	2.166	55.02	1.244	31.60	1-9/16-18UNEF	1-5/8-18UNEF	42	1.592	40.44	1-7/16-18UNEF
28	2.314	58.78	2.428	61.67	1.475	37.47	1-13/16-16UN	1-7/8-20UN	54	1.840	46.74	1-3/4-18UNS

M83723/86, 87
Straight Plug
AE83386, 87



Threaded Coupling, Crimp Removable, Rear Release

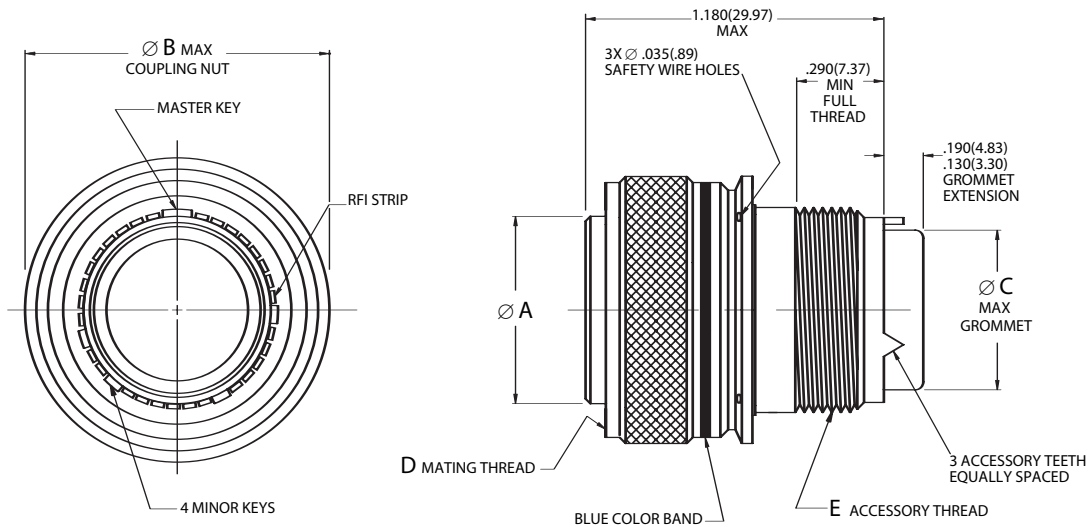


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MIL-DTL-83723 S III

Shell Size	Ø A		Ø B		Ø C		D	E
	+0.005	+0.13	Maximum	Maximum	Maximum	Maximum	Mating Thread Class 2B	Accessory Thread Class 2A
	-.004	-.10						
8	.400	10.16	.776	19.71	.305	7.75	9/16-24UNEF	1/2-20UNF
10	.521	13.23	.906	23.01	.405	10.29	11/16-24UNEF	5/8-24UNEF
12	.691	17.55	1.078	27.38	.531	13.49	7/8-20UNEF	3/4-20UNEF
14	.760	19.30	1.141	28.98	.665	16.89	15/16-20UNEF	7/8-20UNEF
16	.887	22.53	1.266	32.16	.790	20.07	1-1/16-18UNEF	1-20UNEF
18	.993	25.22	1.375	34.93	.869	22.07	1-3/16-18UNEF	1-1/16-18UNEF
20	1.118	28.40	1.510	38.35	.994	25.25	1-5/16-18UNEF	1-3/16-18UNEF
22	1.243	31.57	1.625	41.28	1.119	28.42	1-7/16-18UNEF	1-5/16-18UNEF
24	1.368	34.75	1.760	44.70	1.244	31.60	1-9/16-18UNEF	1-7/16-18UNEF
28	1.618	41.10	2.050	52.07	1.475	37.47	1-13/16-16UN	1-3/4-18UNS

Threaded Coupling, Crimp Removable, Rear Release



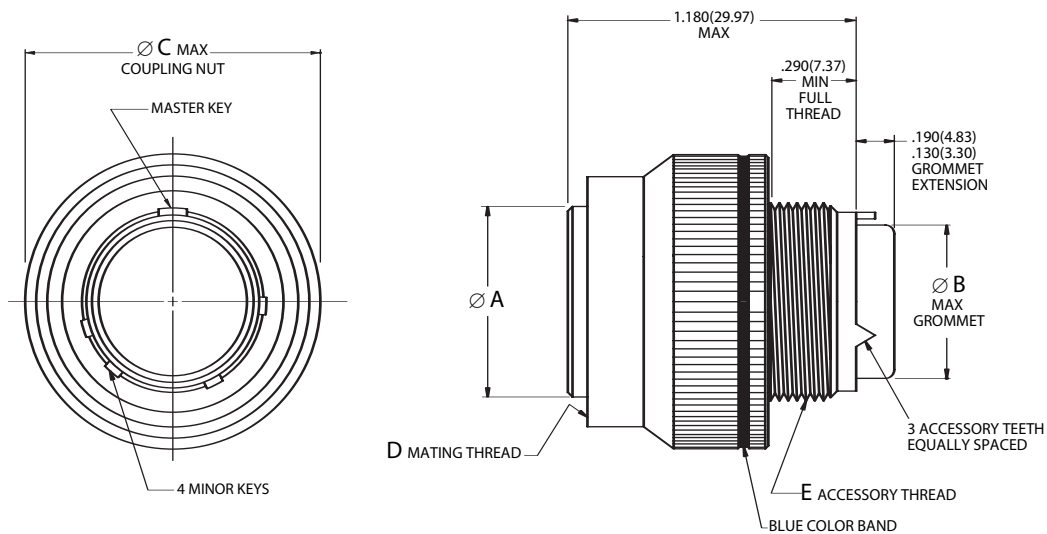
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Shell Size	$\varnothing A$		$\varnothing B$		$\varnothing C$		D	E
	+0.005 -0.004	+13 -10	Maximum		Maximum		Mating Thread Class 2B	Accessory Thread Class 2A
	inch	mm	inch	mm	inch	mm		
8	.400	10.16	.776	19.71	.305	7.75	9/16-24UNEF	1/2-20UNF
10	.521	13.23	.906	23.01	.405	10.29	11/16-24UNEF	5/8-24UNEF
12	.691	17.55	1.078	27.38	.531	13.49	7/8-20UNEF	3/4-20UNEF
14	.760	19.30	1.141	28.98	.665	16.89	15/16-20UNEF	7/8-20UNEF
16	.887	22.53	1.266	32.16	.790	20.07	1-1/16-18UNEF	1-20UNEF
18	.993	25.22	1.375	34.93	.869	22.07	1-3/16-18UNEF	1-1/16-18UNEF
20	1.118	28.40	1.510	38.35	.994	25.25	1-5/16-18UNEF	1-3/16-18UNEF
22	1.243	31.57	1.625	41.28	1.119	28.42	1-7/16-18UNEF	1-5/16-18UNEF
24	1.368	34.75	1.760	44.70	1.244	31.60	1-9/16-18UNEF	1-7/16-18UNEF
28	1.618	41.10	2.050	52.07	1.475	37.47	1-13/16-16UN	1-3/4-18UNS

M83723/95, 96
Self-Locking Plug
AE83395, 96



Threaded Coupling, Crimp Removable, Rear Release

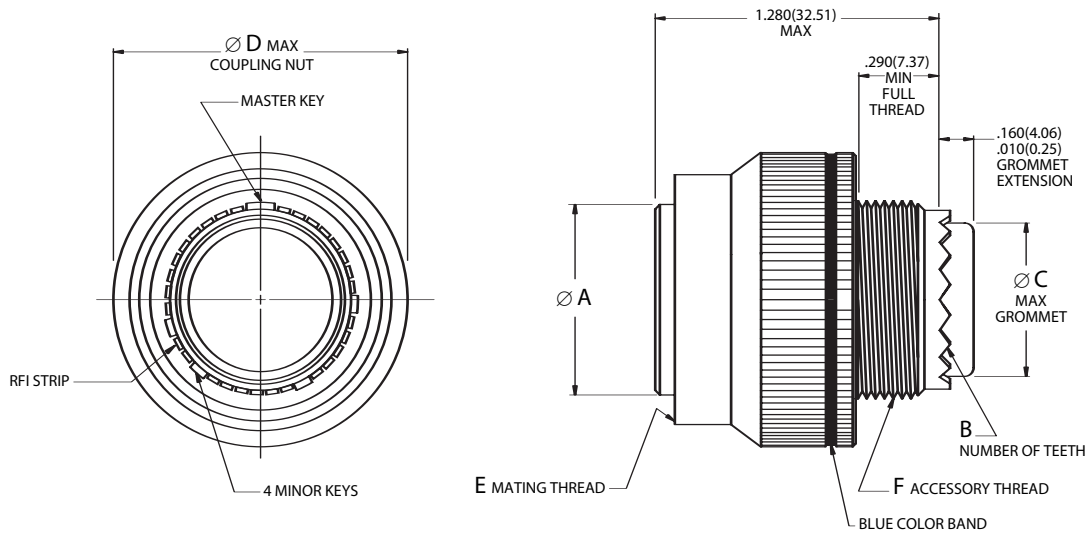


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MIL-DTL-83723 S III

Shell Size	$\varnothing A$		$\varnothing B$		$\varnothing C$		D	E
	+0.05	+1.3	Maximum		Maximum		Mating Thread	Accessory Thread
	-.004	-.10	inch	mm	inch	mm	Class 2B	Class 2A
8	.400	10.16	.305	7.75	.832	21.13	9/16-24UNEF	1/2-20UNF
10	.521	13.23	.405	10.29	.959	24.36	11/16-24UNEF	5/8-24UNEF
12	.691	17.55	.531	13.49	1.097	27.86	7/8-20UNEF	3/4-20UNEF
14	.760	19.30	.665	16.89	1.236	31.39	15/16-20UNEF	7/8-20UNEF
16	.887	22.53	.790	20.07	1.360	34.54	1-1/16-18UNEF	1-20UNEF
18	.993	25.22	.869	22.07	1.473	37.41	1-3/16-18UNEF	1-1/16-18UNEF
20	1.118	28.40	.994	25.25	1.586	40.28	1-5/16-18UNEF	1-3/16-18UNEF
22	1.243	31.57	1.119	28.42	1.703	43.26	1-7/16-18UNEF	1-5/16-18UNEF
24	1.368	34.75	1.244	31.60	1.846	46.89	1-9/16-18UNEF	1-7/16-18UNEF
28	1.618	41.10	1.475	37.47	2.278	57.86	1-13/16-16UN	1-3/4-18UNS

Threaded Coupling, Crimp Removable, Rear Release



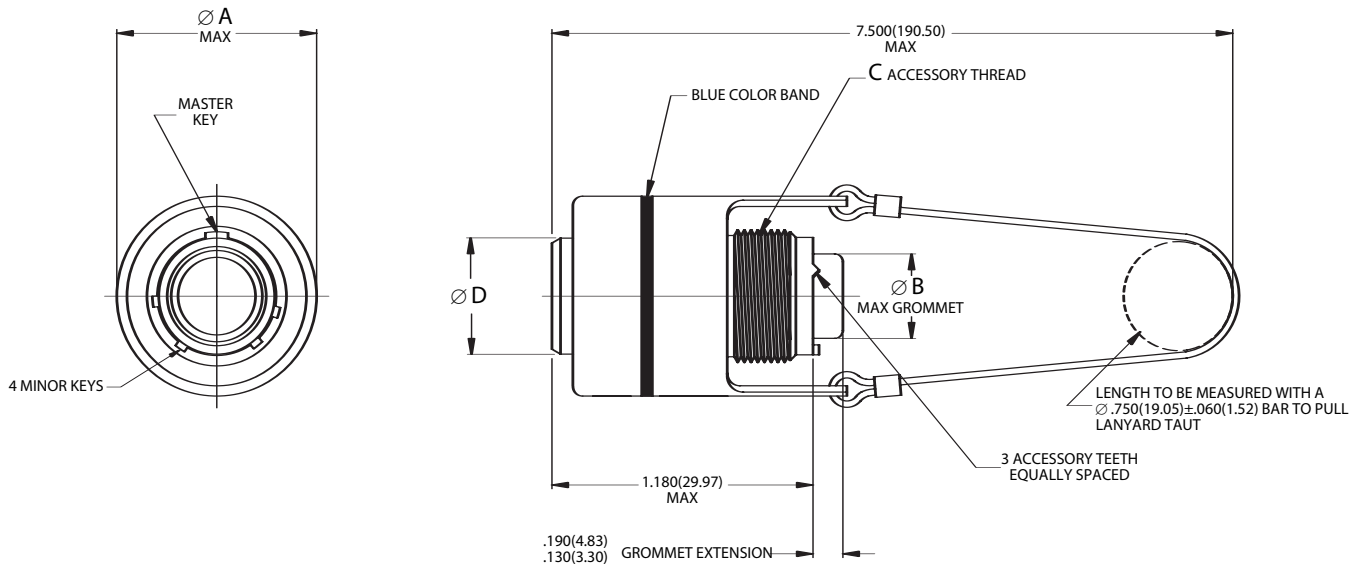
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Shell Size	Ø A		B	Ø C		Ø D		E	F
	+0.005	+13	No. of Teeth	Maximum		Maximum		Mating Thread	Accessory Thread
	-.004	-.10		inch	mm	inch	mm	Class 2B	Class 2A
8	.400	10.16	12	.305	7.75	.967	24.56	9/16-24UNEF	1/2-20UNF
10	.521	13.23	15	.405	10.29	1.093	27.76	11/16-24UNEF	5/8-24UNEF
12	.691	17.55	21	.531	13.49	1.170	29.72	7/8-20UNEF	3/4-20UNEF
14	.760	19.30	24	.665	16.89	1.310	33.27	15/16-20UNEF	7/8-20UNEF
16	.887	22.53	30	.790	20.07	1.500	38.10	1-1/16-18UNEF	1-20UNEF
18	.993	25.22	33	.869	22.07	1.562	39.67	1-3/16-18UNEF	1-1/16-18UNEF
20	1.118	28.40	36	.994	25.25	1.710	43.43	1-5/16-18UNEF	1-3/16-18UNEF
22	1.243	31.57	39	1.119	28.42	1.812	46.02	1-7/16-18UNEF	1-5/16-18UNEF
24	1.368	34.75	42	1.244	31.60	1.948	49.48	1-9/16-18UNEF	1-7/16-18UNEF
28	1.618	41.10	54	1.475	37.47	2.278	57.86	1-13/16-16UN	1-3/4-18UNS

M83723/68, 69
Lanyard Release, Quick-Disconnect Plug
AE83368, 69



Quick-Disconnect, Threaded Coupling, Crimp Removable, Rear Release



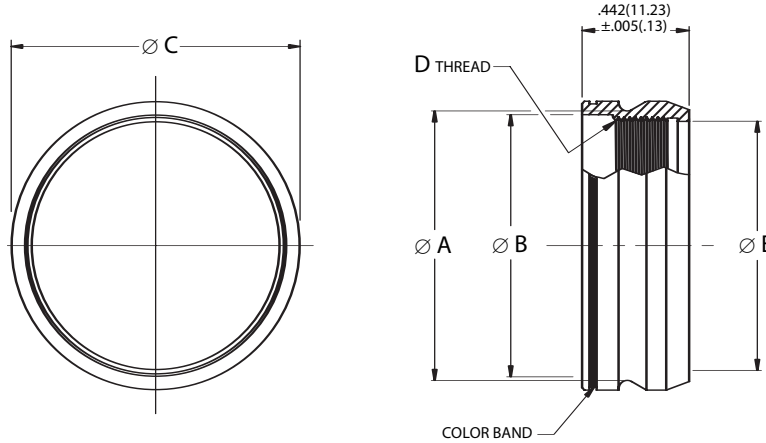
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Note 1: M83723/70 receptacle adapter (page 101) is required to mate the Quick-Disconnect Plug with a receptacle.

Note 2: Not available in shell size 8.

Shell Size	Ø A		Ø B		C Accessory Thread Class 2A	Ø D	
	Maximum		Maximum			inch	mm
	inch	mm	inch	mm			
10	1.240	31.50	.405	10.29	5/8-24UNEF	.526/.517	13.36/13.13
12	1.432	36.37	.531	13.49	3/4-20UNEF	.696/.687	17.68/17.45
14	1.490	37.85	.665	16.89	7/8-20UNEF	.765/.756	19.43/19.20
16	1.711	43.46	.790	20.07	1-20UNEF	.892/.883	22.66/22.43
18	1.815	46.10	.869	22.07	1-1/16-18UNEF	.998/.989	25.35/25.12
20	1.962	49.83	.994	25.25	1-3/16-18UNEF	1.123/1.114	28.52/28.30
22	2.070	52.58	1.119	28.42	1-5/16-18UNEF	1.248/1.239	31.70/31.47
24	2.195	55.75	1.244	31.60	1-7/16-18UNEF	1.373/1.364	34.87/34.65

Quick-Disconnect (Push-Pull) Receptacle Adapter

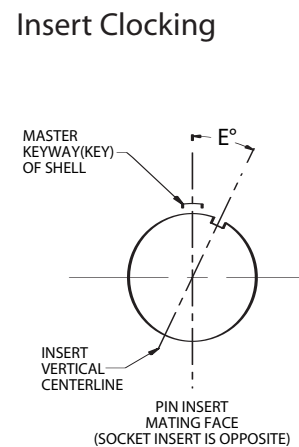
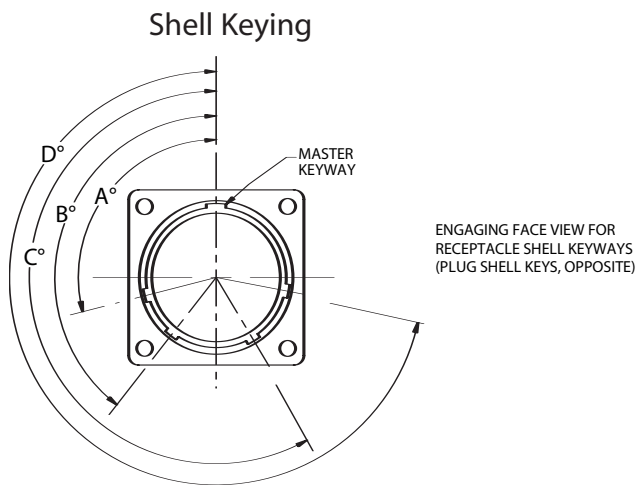


Mil Prefix	M83723/	70	W	10
Aero Prefix	AE833	70	W	10
Specification Sheet (Shell type)				
70 = Receptacle adapter, quick-disconnect				
Class (Material and Finish)				
A = Aluminum shell, black anodized finish				
G = Stainless steel shell, passivated				
R = Aluminum shell, electroless nickel finish				
W = Aluminum shell, cadmium olive drab over nickel base				
Shell Size				
8, 10, 12, 14, 16, 18, 20, 22 or 24				

Note: The adapter is required to mate the Lanyard Release and Push-Pull Quick-Disconnect plugs (M83723/66 thru 69) with M83723/82, 83, 84, 85, 88, 89 and 90 threaded coupling receptacles. Use compatible thread seizing compound to permanently secure to the receptacle.

Shell Size	D	Ø A		Ø B		Ø C		Ø E	
	Coupling Thread Class 2B	±.002	±.05	±.002	±.05	±.002	±.05	±.005	±.13
		inch	mm	inch	mm	inch	mm	inch	mm
8	9/16-24UNEF	.605	15.37	.577	14.66	.687	17.45	.525	13.34
10	11/16-24UNEF	.730	18.54	.712	18.08	.812	20.62	.650	16.51
12	7/8-20UNEF	.917	23.29	.892	22.66	.999	25.37	.840	21.34
14	15/16-20UNEF	.980	24.89	.952	24.18	1.062	26.97	.900	22.86
16	1-1/16-18UNEF	1.105	28.07	1.077	27.36	1.187	30.15	1.025	26.04
18	1-3/16-18UNEF	1.230	31.24	1.202	30.53	1.328	33.73	1.150	29.21
20	1-5/16-18UNEF	1.355	34.42	1.327	33.71	1.453	36.91	1.275	32.39
22	1-7/16-18UNEF	1.480	37.59	1.452	36.88	1.578	40.08	1.400	35.56
24	1-9/16-18UNEF	1.605	40.77	1.577	40.06	1.703	43.26	1.525	38.74

MIL-DTL-83723 Series III Polarization (Shell Keying, Insert Clocking) Bayonet and Threaded



Notes:

1. In the normal position (N), the insert centerline coincides with the centerline of the master keyway (key) of the shell. $E = 0^\circ$
2. In the alternate keying positions (6, 7, 8, 9 and Y), the minor keyways (keys) are positioned with reference to master keyway (key) as indicated in the keying position table below.
3. In the alternate insert clocking positions (1, 2, 3, 4 and 5), the pin insert (viewing from the mating side) is rotated counter-clockwise relative to the centerline of the master keyway (key) of the shell. The socket insert is rotated clockwise.

Shell Size	Polarizing	Key/Keyway Positions				Insert Position
	Position	A°	B°	C°	D°	E°
8*, 10	N	105	140	215	265	0
	6	102	132	248	320	0
	7	80	118	230	312	0
	8	35	140	205	275	0
	9	64	155	234	304	0
10 only	Y	25	115	220	270	0
12 thru 24, 28**	N	105	140	215	265	0
	6	18	149	192	259	0
	7	92	152	222	342	0
	8	84	152	204	334	0
	9	24	135	189	240	0
	Y	98	152	268	338	0
10 thru 24	1†	105	140	215	265	10
	2†	105	140	215	265	20
	3†	105	140	215	265	30
	4†	105	140	215	265	40
	5†	105	140	215	265	50

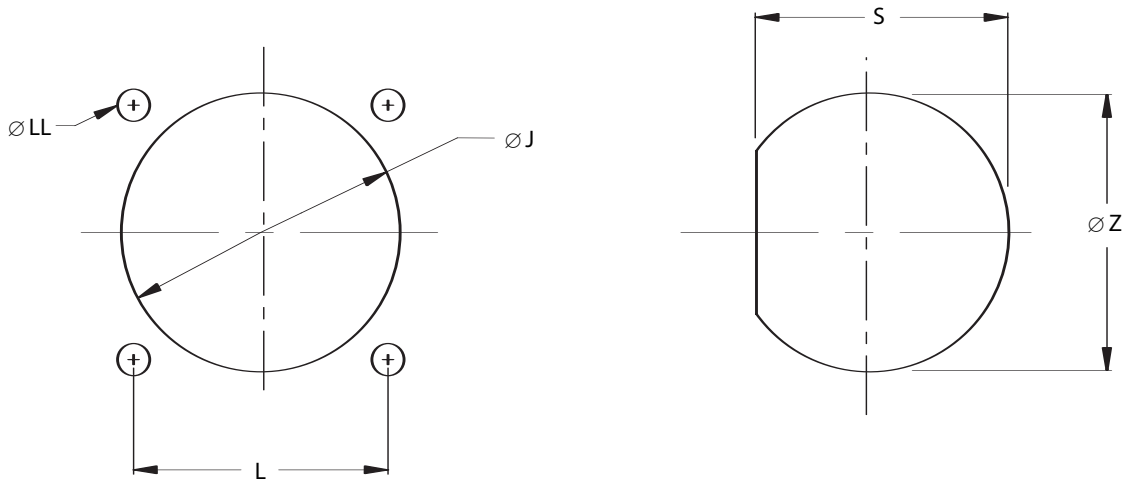
* Per MIL-STD-1554, keyed position Y and clocked positions 1, 2, 3, 4 and 5 are not available in shell size 8.

† Per MIL-STD-1554, insert positions 1 thru 5 are inactive for new design.

** Shell size 28 is not from military standard. It is only available in threaded family to Aero-Electric part number.

Note: Alternate positions “Z” and “10” are cancelled and superseded by Position “Y”.

Panel Cutouts



Panel Thickness

Receptacle Type	Rear Mounting		Front Mounting	
	inch	mm	inch	mm
Wall Mount Receptacle, Bayonet	.250 max*	6.36 max*	.125 max	3.18 max
Wall Mount Receptacle, Threaded	.125 max	3.18 max	.125 max	3.18 max
Jam Nut Mount (Bayonet & Threaded)	.062/.125	1.57/3.18	—	—

* Includes screw-head

Flange and Jam Nut Mounting Dimensions

Shell Size	L		Ø J		Ø J		Ø LL		S		Ø Z	
	(TP)		For Back Mounting Minimum		For Front Mounting Minimum		+0.00	+0.00	±.005		±.005	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
8	.594	15.09	.620	15.75	.510	12.95	.125	3.18	.605	15.37	.635	16.13
10	.719	18.26	.748	19.00	.635	16.13	.125	3.18	.730	18.54	.760	19.30
12	.812	20.62	.918	23.32	.760	19.30	.125	3.18	.917	23.29	.947	24.05
14	.906	23.01	.988	25.10	.885	22.48	.125	3.18	.980	24.89	1.010	25.65
16	.969	24.61	1.114	28.30	1.010	25.65	.125	3.18	1.105	28.07	1.135	28.83
18	1.062	26.97	1.220	30.99	1.072	27.23	.125	3.18	1.229	31.22	1.260	32.00
20	1.156	29.36	1.346	34.19	1.197	30.40	.125	3.18	1.354	34.39	1.385	35.18
22	1.250	31.75	1.470	37.34	1.322	33.58	.125	3.18	1.479	37.57	1.510	38.35
24	1.375	34.93	1.596	40.54	1.442	36.63	.154	3.91	1.604	40.74	1.635	41.53

MIL-DTL-83723

Contacts, Tools and Seal Plugs

Series III



Contacts, Plastic Insertion/Removal Tools and Seal Plugs

Contact Size	Application	Pin Contacts	Socket Contacts	Seal Plugs	Insertion/Removal Tools
	Type	Military No.	Military No.	Military No.	Military No.
20	Power/Signal	M39029/4-110	M39029/5-115	MS27488-20-1	M81969/14-11
16	Power/Signal	M39029/4-111	M39029/5-116	MS27488-16-1	M81969/14-03
12	Power/Signal	M39029/4-113	M39029/5-118	MS27488-12-1	M81969/14-04

Crimping and Metal Insertion/Extraction Tools

Contact Size	Crimp Tool	Positioner	Positioner	Insertion Tool	Extraction Tool
	Military No.	Military No.	Military No.	Military No.	Military No.
20	M22520/1-01	M22520/1-02	M22520/1-02	M81969/8-205	M81969/8-206
	M22520/2-01	M22520/2-02	M22520/2-02		
16	M22520/1-01	M22520/1-02	M22520/1-02	M81969/8-207	M81969/8-208
12	M22520/1-01	M22520/1-02	M22520/1-02	M81969/8-209	M81969/8-210

Contact and Wire Data

Contact Size	Test Current	Voltage	Crimp Well Data			Wire Range	Finished Wire Ø Range				
	DC Test Amps	Max. Drop Millivolts	Well Dia. inch	Minimum Well Dept inch	mm	AWG	mm ²	Minimum inch	mm	Maximum inch	mm
20	7.5	55	.049 ±.001	.155	3.94	24-20	.20-.52	.040	1.02	.083	2.11
16	13.0	49	.067 ±.001	.250	6.35	20-16	.52-1.31	.053	1.35	.103	2.62
12	23.0	42	.100 ±.002	.250	6.35	14-12	2.08-3.31	.097	2.46	.158	4.01

Note: Test Current and Maximum Voltage Drop when tested with silver-plated wire at 25°C.



MIL-DTL-83723 Series III Contact Installation Instructions Bayonet and Threaded Coupling

Contact Installation Instructions

Crimping Contacts

1. Select the appropriate crimp tool and ensure that the proper crimp head positioner is used.
2. Cycle the tool to be sure the indentors are open.
3. Determine the correct selector setting for the wire size from the data plate on the positioner (turret head assembly) and set the selector knob on the crimp tool to match.
4. Place the contact, mating end first, into the tool.
5. Insert the stripped wire into the hollow end of the contact. Be sure the wire is inserted as far as it will go.
6. Close the tool completely to crimp. Unless the tool is closed completely, the tool will not release the contact.
7. Remove the crimped contact from the tool. Check the inspection hole to verify that the wire is fully inserted.

Insertion of Contacts

1. Before inserting the contacts, unscrew the accessories (clamps, backshells or adapters) from rear of plug or receptacle. Slide the hardware over the wire bundle in the proper order for reassembly after all the contacts are inserted.
2. To assist insertion of contacts, lubricate insulator (grommet) cavities with isopropyl alcohol. Alcohol will evaporate and will not leave a conductive film. **Caution: Never use any lubricant other than isopropyl alcohol.**

3. Place the correct insertion tool on the contact so that the wire runs along the groove in the tool. (Tool tip will butt against the shoulder.) Hold the plug or receptacle body firmly.
4. Beginning with a center cavity, insert the contact into the insulator with a slow, even pressure until the contact snaps into position. Make sure the contact and tool are held perpendicular to the face of the insert during the contact installation or the grommet could be damaged.
 - 4.1 If contacts are not inserted all the way prior to removing insertion tool, do not try to reinsert the insertion tool. Instead, remove the contact and try again; otherwise reinserting the insertion tool may damage the inside of the contact cavity.
5. Remove tool and check the face of the connector for proper contact installation. Proper installation may also be checked by pulling back lightly on the wire to make sure the contact is properly seated.

Completion

After all the cavities have been filled, slide the hardware back into position on the connector and tighten.

Extraction of Contacts (Rework)

1. Slide the hardware back over the wire bundle.
2. Select the appropriate tool. Place the wire into the extraction tool of the pin or socket.
3. Slowly slide the extraction tool down wire into the contact cavities until the tool tip bottoms against the contact shoulder, expanding the clip retaining tines. Hold the wire firmly in the tool and pull the wired contact and tool straight out of the rear of the insulator.

Size	Pin Contact	Socket Contact	Basic Crimp Tool	Pin Positioner	Socket Positioner	Insertion/Removal Tool
20	M39029/4-110	M39029/5-115	M22520/1-01	M22520/1-02 Red	M22520/1-02 Red	M81969/14-11
			M22520/2-01	M22520/2-02	M22520/2-02	
16	M39029/4-111	M39029/5-116	M22520/1-01	M22520/1-02 Blue	M22520/1-02 Blue	M81969/14-03
12	M39029/4-113	M39029/5-118	M22520/1-01	M22520/1-02 Yellow	M22520/1-02 Yellow	M81969/14-04

MIL-DTL-83723 Series III
Insert Availability and Contact Information
per MIL-STD-1554



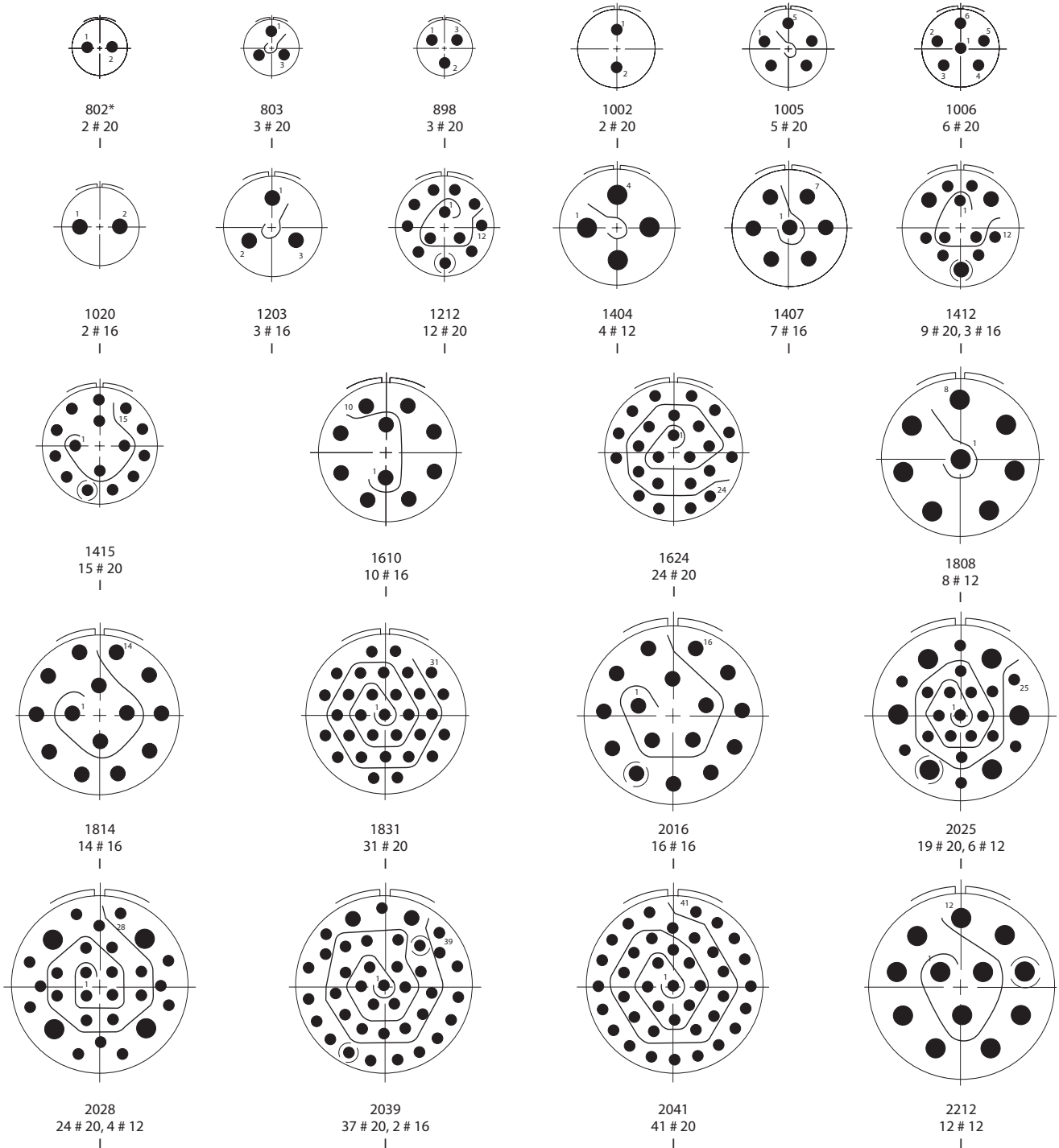
Insert Availability and Contact Information

Insert Arrangement	Aero-Electric		Total	Quantity of Contacts				Service	Alternate Positions**				
	Status		No. of	(by Size)					(Insert Rotation in Degrees)				
	QPL'd	Tooled	Contacts	20	16	12	# 8coax	Rating	1	2	3	4	5
8-2Δ	Yes	Yes	2	2				I	N/A	N/A	N/A	N/A	N/A
8-3	Yes	Yes	3	3				I	N/A	N/A	N/A	N/A	N/A
8-98	Yes	Yes	3	3				I	N/A	N/A	N/A	N/A	N/A
10-2	Yes	Yes	2	2				I	10	20	30	40	50
10-5	Yes	Yes	5	5				I	10	20	30	40	50
10-6	Yes	Yes	6	6				I	10	20	30	40	50
10-20	Yes	Yes	2		2			I	10	20	30	40	50
12-3	Yes	Yes	3		3			I	10	20	30	40	50
12-12	Yes	Yes	12	12				I	10	20	30	40	50
14-4	Yes	Yes	4			4		I	10	20	30	40	50
14-7	Yes	Yes	7		7			I	10	20	30	40	50
14-12	Yes	Yes	12	9	3			I	10	20	30	40	50
14-15	Yes	Yes	15	15				I	10	20	30	40	50
16-10	Yes	Yes	10		10			I	10	20	30	40	50
16-24	Yes	Yes	24	24				I	10	20	30	40	50
18-8	Yes	Yes	8			8		I	10	20	30	40	50
18-14	Yes	Yes	14		14			I	10	20	30	40	50
18-31	Yes	Yes	31	31				I	10	20	30	40	50
20-16	Yes	Yes	16		16			I	10	20	30	40	50
20-25	Yes	Yes	25	19		6		I	10	20	30	40	50
20-28	Yes	Yes	28	24		4		I	10	20	30	40	50
20-39	Yes	Yes	39	37	2			I	10	20	30	40	50
20-41	Yes	Yes	41	41				I	10	20	30	40	50
22-12	Yes	Yes	12			12		I	10	20	30	40	50
22-19	Yes	Yes	19		19			I	10	20	30	40	50
22-32	Yes	Yes	32	26		6		I	10	20	30	40	50
22-55	Yes	Yes	55	55				I	10	20	30	40	50
24-19	Yes	Yes	19			19		I	10	20	30	40	50
24-29*	N/A	Yes	29		29			I	10	20	30	40	50
24-30*	N/A	Yes	30		30			I	10	20	30	40	50
24-43	Yes	Yes	43	23	20			I	10	20	30	40	50
24-57	Yes	Yes	57	55		2		I	10	20	30	40	50
24-61	Yes	Yes	61	61				I	10	20	30	40	50
28-42*	N/A	Yes	42		42			I	10	20	30	40	50

* Non MIL-STD-1554 layout, available to Aero-Electric part number only.
 Δ Consult factory for pin insert availability.

** Alternate clocking positions (1, 2, 3, 4, and 5) are for interchangeability use only. Inactive for new design per MIL-STD-1554.

Insert Arrangements Views



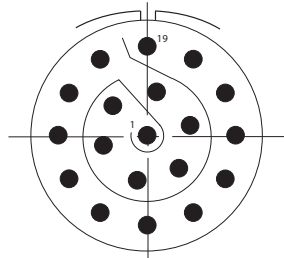
* Consult factory for pin insert availability.

MIL-STD-1554

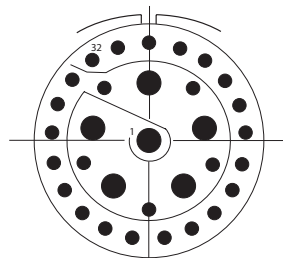
Insert Arrangements (Socket Front View) for MIL-DTL-83723 Series III Connectors



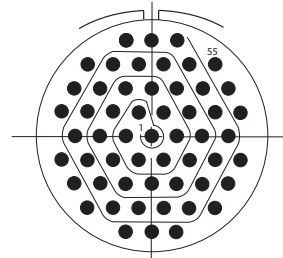
Insert Arrangements Views



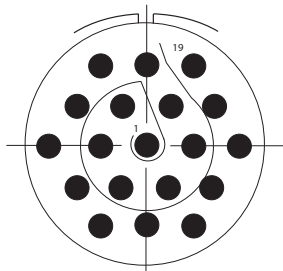
2219
19 # 16



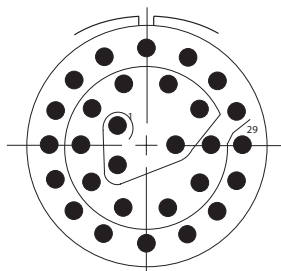
2232
26 # 20, 6 # 12



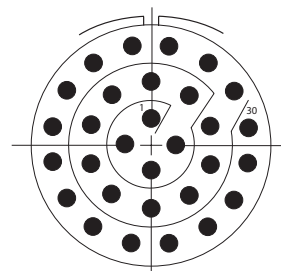
2255
55 # 20



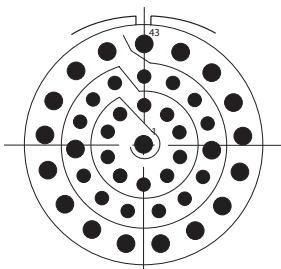
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19 # 12



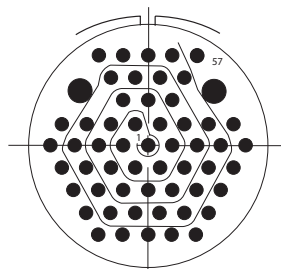
2429Δ
29 # 16



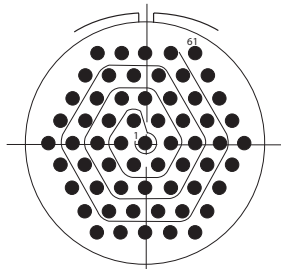
2430Δ
30 # 16



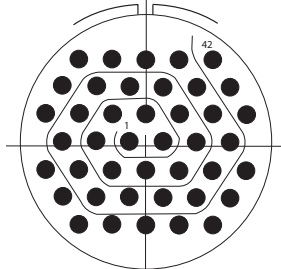
2443
23 # 20, 20 # 16



2457
55 # 20, 2 # 12



2461
61 # 20



2842Δ
42 # 16

MIL-DTL-83723 S III

Δ Non MIL-STD-1554 layout, available to Aero-Electric part number only.