

SERIES 253-040 AS81703 Series 3 Type Connectors



253-040-00 Square-flange wall-mount receptacle
High-density MIL-STD-1560 insert arrangements



HOW TO ORDER									
Sample Part No.	253-040	-	00	ME	19-35	P	N		
Basic Part Number	AS81703 Series 3 type connector W/D38999'-35' (22D Contact) Insert Arrangement								
Rear Option	"-" = 360° Accessory sawteeth B = Banding platform								
Shell Style	00 = Receptacle wall-mount flange								
Material / Finish	See Table I								
Shell Size / Insert Arrangement	Per MIL-STD-1560, see Table II								
Contact Styles	P = Pin A = Pin insert less contacts S = Socket B = Socket insert less contacts								
Alternate Positions	A, B, C, D, E, F, G, N = Normal								

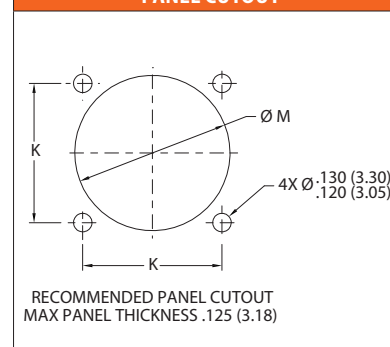
ADAPTER CODE A

"A" adapter code accessories
fit AS81703 Series 3 (imperial
thread) connectors

TABLE I - MATERIAL AND FINISH

Code	Mil Class	Material	Finish
TZ	-	Aluminum Alloy	Tin-Zinc over Nickel
MN	AA		MegaNickel
C	-		Black Anodize
ME	E		Electroless Nickel
NF	L		Cad O.D. over Electroless Nickel
MT	-		Nickel-PTFE
ZR	-		Zinc-Nickel/Black (Tri-Valent CR)

PANEL CUTOUT



NOTES:

- Connector series 253-040-00 meets all applicable dimensional, performance, and material requirements of AS81703, except as noted. This connector is mated with Glenair part number 253-040-06, 253-040-08, and 253-040-09 plugs, with the same size and arrangement.
- Connector mechanism per AS81703 Series III.
- Material / Finish:
Shell, Jam Nut - See Table I
Insulator - High Grade Rigid Dielectric / N.A.
Grommet - Fluorosilicone Blend or Equivalent / N.A.
Contact - Gold Plated.
- Insert arrangements are in accordance with MIL-STD-1560 (D38999). Arrangement shown on Table II for reference only.
- Majority arrangements of MIL-STD-1560 for D38999 Series III are available for connector sizes 3, 7, 12, 19, 27, 37, and 61.

TABLE II

D38999 Equiv. Shell Size	AS81703 Shell Size	Shell Size with Arrangement
9	3	3-35, 3-98
11	7	7-98, 7-99, 7-35, 7-04
13	12	12-04, 12-08, 12-35, 12-98
15	19	19-05, 19-15, 19-18, 19-97, 19-35, 19-19
17	27	27-02, 27-11, 27-26, 27-35, 27-06, 27-99
19	37	37-04, 37-11, 37-18, 37-35
25	61	61-04, 61-08, 61-07, 61-19, 61-35, 61-37, 61-20, 61-46

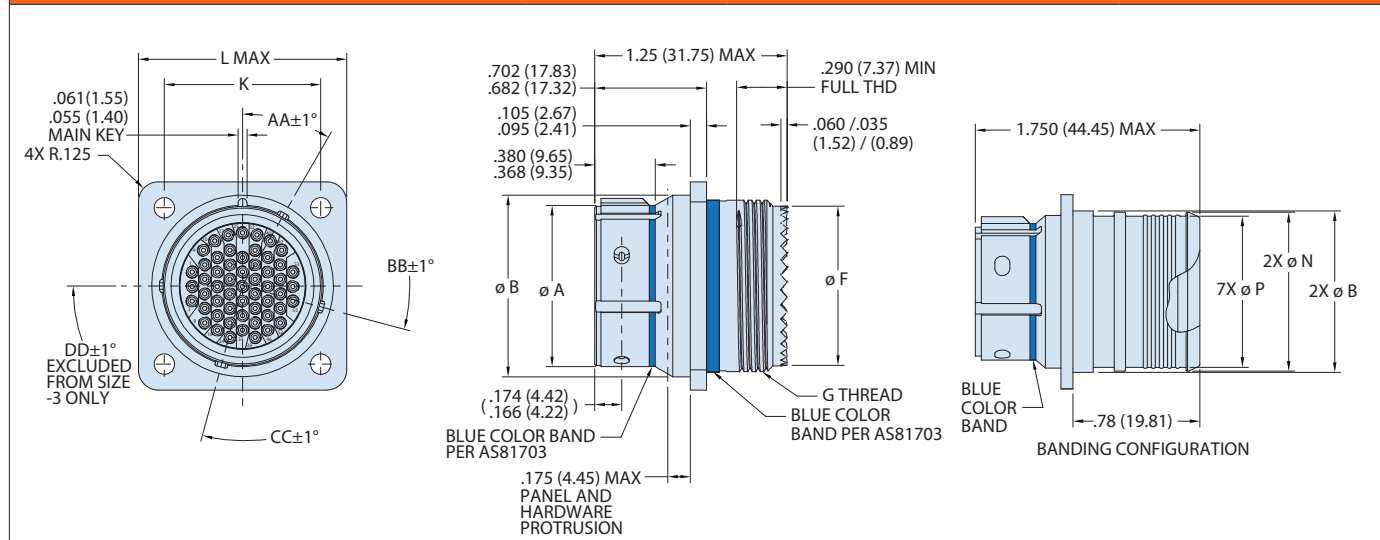
SERIES 253-040

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OVERALL DIMENSIONS TABLE III



BANDING ONLY

Shell Size	Ø A	Ø B Max.	1 Ø F Max.	G Thd.	K	L Max.	Ø M	Ø N ±.01	Ø P ±.01
3	.441 (11.20) .431 (10.95)	0.573 (14.55)	0.509 (12.93)	9/16-24 UNEF-2A 2	0.625 (15.88)	0.891 (22.63)	0.583 (14.81)	0.598 (15.19)	0.556 (14.12)
7	.576 (14.63) .566 (14.38)	0.686 (17.42)	0.687 (17.45)	3/4-20 UNEF-2A	0.719 (18.26)	1.016 (25.81)	0.760 (19.30)	0.720 (18.29)	0.670 (17.02)
12	.710 (18.03) .700 (17.78)	0.823 (20.90)	0.812 (20.62)	7/8-20 UNEF-2A	0.812 (20.62)	1.109 (28.17)	0.885 (22.48)	0.876 (22.25)	0.826 (20.98)
19	.849 (21.56) .839 (21.31)	0.948 (24.08)	0.937 (23.80)	1-20 UNEF-2A	0.906 (23.01)	1.203 (30.56)	1.010 (25.65)	0.986 (25.04)	0.936 (23.77)
27	1.004 (25.50) .994 (25.25)	1.131 (28.73)	0.992 (25.20)	1 1/16-18 UNEF-2A	0.968 (24.59)	1.297 (32.94)	1.141 (28.98)	1.098 (27.89)	1.048 (26.62)
37	1.126 (28.60) 1.116 (28.35)	1.261 (32.03)	1.117 (28.37)	1 3/16-18 UNEF-2A	1.187 (30.15)	1.453 (36.91)	1.271 (32.28)	1.216 (30.89)	1.168 (29.67)
61	1.414 (35.92) 1.404 (35.66)	1.573 (39.95)	1.427 (36.25)	1 1/2-18 UNEF-2A	1.436 (36.47)	1.797 (45.64)	1.583 (40.21)	1.502 (38.15)	1.446 (36.73)

253-040 SERIES SHELL KEYING ANGLES TABLE IV

Shell Keying	Shell Size 3				Shell Size 7				Shell Size 12				Shell Size 19				Shell Size 27				Shell Size 37				Shell Size 61			
	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD	AA°	BB°	CC°	DD
Normal	23	97	187	-	23	97	187	277	30	105	195	270	30	105	195	270	30	105	195	270	30	105	195	270	30	105	195	270
A	-	-	-	-	23	105	195	300	30	90	225	315	40	105	195	270	40	105	195	270	40	105	195	270	40	105	195	270
B	-	-	-	-	23	115	210	285	30	120	210	285	30	115	195	270	30	115	195	270	30	115	195	270	30	115	195	270
C	-	-	-	-	30	120	195	285	30	135	180	300	30	115	210	270	30	115	210	270	30	115	210	270	30	115	210	270
D	-	-	-	-	30	97	210	270	45	105	210	315	30	115	195	280	30	115	195	280	30	115	195	280	30	115	195	280
E	-	-	-	-	-	-	-	-	45	90	180	285	-	-	-	-	-	-	-	-	30	90	170	270	30	90	170	270
F	-	-	-	-	-	-	-	-	45	120	270	300	-	-	-	-	-	-	-	-	30	115	170	255	30	115	170	255
G	-	-	-	-	-	-	-	-	45	135	195	225	-	-	-	-	-	-	-	-	30	115	180	300	30	115	180	300