

SERIES 253-020 AS81703 Series 3 Type Connectors



253-020-06 Push-pull plug Standard-density contact arrangements



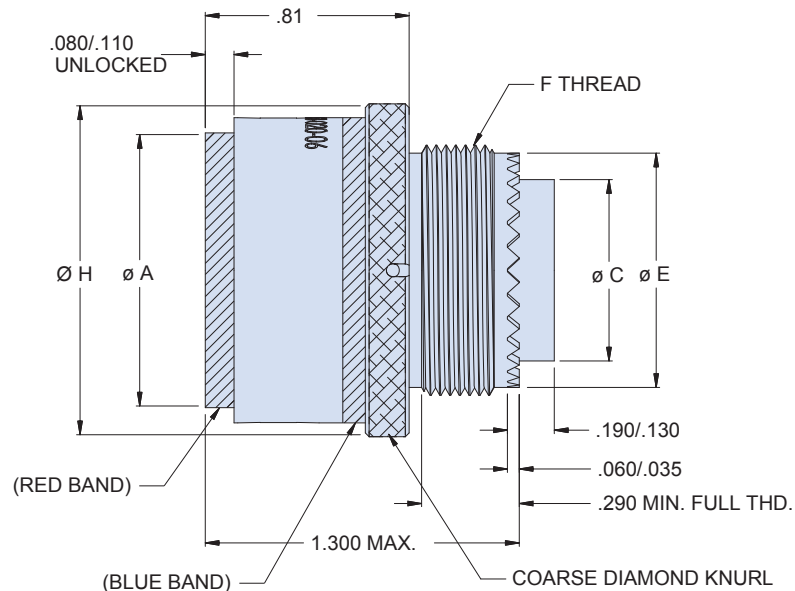
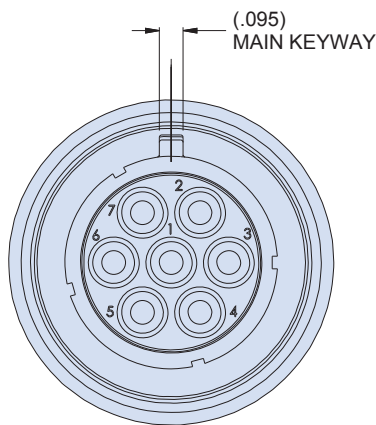
ADAPTER CODE **A**

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

HOW TO ORDER

Sample Part No.	253-020	-	06	ME	19-7	P	N
Basic Part Number	AS81703 Series 3 type connector						
Rear Option	- = Accessory threads B = Band porch (consult factory)						
Connector Style	06 = Straight plug AS34671 type (MS3467)						
Material / Finish	C = Al Alloy/Black Anodize ME = Al Alloy/Electroless Nickel NF = Al Alloy/Cad O.D. Over Electroless Nickel MT = Al Alloy/Nickel-PTFE ZR = Al Alloy/Zinc-Nickel Black						
Shell Size-Insert Arrangement	See Table II						
Contact Styles	P = Pin insert A = Pin insert less contacts S = Socket insert B = Socket insert less contacts						
Insert Clocking Positions	N, W, X, Y, B, C (See Table III pg. 2)						

-06 PLUG DIMENSIONS



Shell Size	Ø A		Ø C Max.		Ø E Max.		F Thd.	H	
	In. ± .02	mm ± .5	In.	mm	In.	mm		In. ± .025	mm ± .6
3	.657	16.7	.351	8.9	.509	12.9	1/16-24 UNEF-2A	.925	23.5
7	.795	20.2	.531	13.5	.687	17.4	3/16-20 UNEF-2A	1.062	27.0
12	.945	24.0	.665	16.9	.812	20.6	7/16-20 UNEF-2A	1.172	29.8
19	1.090	27.7	.790	20.1	.937	23.8	1-20 UNEF-2A	1.328	33.7
27	1.230	31.2	.869	22.1	.992	25.2	1 1/16-18 UNEF-2A	1.475	37.5
37	1.350	34.3	.994	25.2	1.117	28.4	1 3/16-18 UNEF-2A	1.610	40.9
61	1.620	41.1	1.280	32.5	1.427	36.2	1 1/2-18 UNEF-2A	1.890	48.0

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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)

TABLE II: CONTACT ARRANGEMENTS			
Contact Arrangement	Contact Size & Quantity		
	#20	#16	#12
3-50	3		
7-50	7		
12-6	6		
12-50	12		
19-4			12
19-7			7
19-12		12	
19-50	19		
27-2		14	
27-3	14	2	
27-5		19	
27-8		6	4
27-11	12		
27-50	27		
37-2		24	
37-3			12
37-50	37		
61-42	29	4	8
61-50	61		

INSERT ROTATION AND INSERT CLOCKING ROTATION	
Master Keyway Pin insert rotated clockwise, Socket insert rotated counter-clockwise, relative to master key / keyway.	AS81703 Series 3 type connectors feature locksmith key/keyways. Plug connector keyways and receptacle connector keys are fixed for all sizes and contact arrangements. Alternate Insert Clocking is specified in the part number. Pin inserts are rotated clockwise, Socket inserts rotated counter-clockwise relative to the master key/keyway, to the positions indicated in the table below.

TABLE III: CLOCKING POSITIONS						
Contact Arrangement	Alternate Insert Clocking Positions					
	N	W	X	Y	B	C
3-50	0°			75°		
7-50	0°				150°	
12-6	0°	25°	45°	80°	150°	220°
12-50	0°	15°	50°	75°	150°	225°
19-4	0°			22° 30'	135°	247° 30'
19-7	0°			75°	150°	225°
19-12	0°	25°	50°	75°	150°	225°
19-50	0°			75°	150°	225°
27-2	0°	25°	50°	75°	150°	225°
27-3	0°	25°	50°	75°	150°	225°
27-5	0°			75°	150°	225°
27-8	0°	25°	50°	75°	150°	225°
27-11	0°	25°	50°	75°	150°	225°
27-50	0°	25°	50°	75°	150°	225°
37-2	0°	25°	145°	227° 30'		
37-3	0°	20°	70°			
37-50	0°	25°	50°	75°	150°	225°
61-42	0°		67° 30'			
61-50	0°			75°	150°	225°