

SERIES 253-020

AS81703 Series 3 Type Connectors



253-020-00 Square flange wall-mount receptacle Standard-density contact arrangements



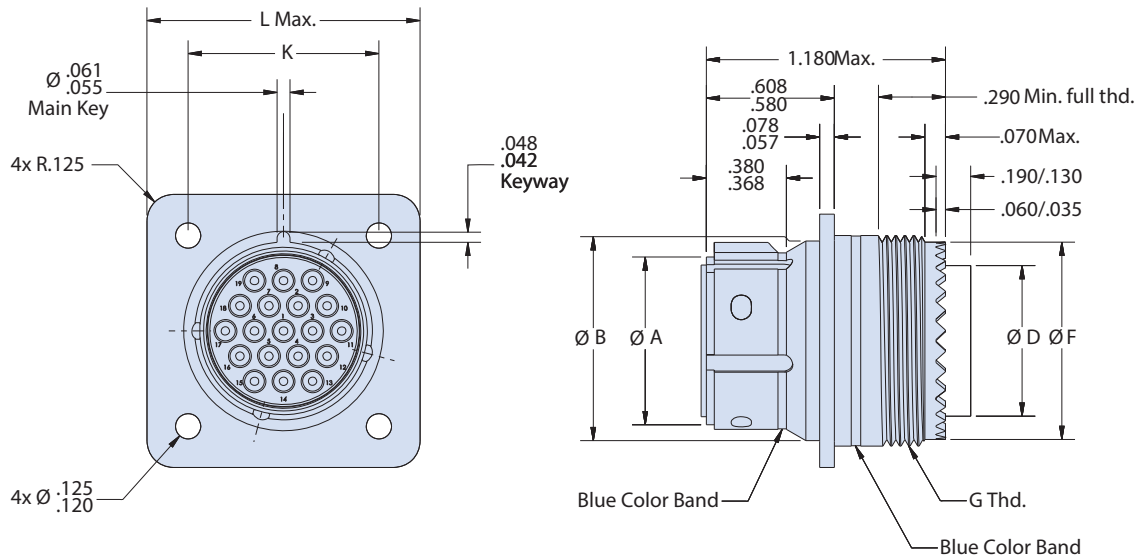
ADAPTER CODE **A**

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

HOW TO ORDER

Sample Part No.	253-020	-	00	ME	19-7	P	N
Basic Part Number	AS81703 Series 3 type connector						
Rear Option	- = Accessory threads B = Band porch (consult factory)						
Connector Style	00 = Sq. flange mount receptacle AS34241 type (MS3424)						
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)						

-00 WALL MOUNT RECEPTACLE DIMENSIONS



Shell Size	Ø A		Ø B		Ø D Max.		Ø F Max.		G Thd.	K		L Max.	
	In.	mm	In. ±.003	mm ±.1	In.	mm	In.	mm		In.	mm	In.	mm
3	.441 .431	11.2 10.9	.573	14.6	.351	8.9	.509	12.9	5/16-24 UNEF-2A	.625	15.9	.896	22.8
7	.576 .566	14.6 14.4	.686	17.4	.531	13.5	.687	17.4	3/4-20 UNEF-2A	.719	18.3	1.021	25.9
12	.710 .700	18.0 17.8	.823	20.9	.665	16.9	.812	20.6	7/8-20 UNEF-2A	.812	20.6	1.114	28.3
19	.849 .839	21.6 21.3	.948	24.1	.790	20.1	.937	23.8	1-20 UNEF-2A	.906	23.0	1.208	30.7
27	1.004 .994	25.5 25.2	1.132	28.8	.869	22.1	.992	25.2	1 1/8-18 UNEF-2A	.968	24.6	1.302	33.1
37	1.126 1.116	28.6 28.3	1.261	32.0	.994	25.2	1.117	28.4	1 3/8-18 UNEF-2A	1.187	30.1	1.458	37.0
61	1.414 1.404	35.9 35.7	1.573	40.0	1.280	32.5	1.427	36.2	1 1/2-18 UNEF-2A	1.438	36.5	1.797	45.6

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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	
	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°