

SERIES 253-020

AS81703 Series 3 Type Connectors



Series overview · How to order Standard-density contact arrangements

HOW TO ORDER								
Sample Part No.	253-020	-	08	ME	19-7	P	N	812
Basic Part Number	AS81703 Series 3 type connector							
Rear Option	- = Accessory threads B = Band porch (consult factory)							
Connector Style (and AS cross-ref)	00 = Sq. flange mount receptacle AS34241 type (MS3424) 06 = Straight plug AS34671 type (MS3467) 07 = Jam nut mount receptacle AS34641 type (MS3464) 08 = Lanyard release plug MS3468 type (no SAE equivalent) 09 = Rack & panel plug AS34461 type (MS3446)							
Material / Finish	See Table I							
Shell Size / Insert Arrangement	See Table II and diagrams							
Contact Styles	P = Pin insert A = Pin insert less contacts (not available for -09 Plug) S = Socket insert B = Socket insert less contacts (not available for -09 Plug)							
Insert Clocking Positions	N, W, X, Y, B, C (See Table III)							
Lanyard Ring Mod. Code (-08 Receptacle Only)	Omit = Standard Lanyard Ring 812 = Lanyard Ring Rotated 90° from Master Keyway							

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°