

**DIN41612 Selection Chart**

Contact Rating	Body Style	No. of Ways	Contact Arrangement	Comments	
2A @ 250Vac/dc	B	32		2 row body	
		32			
		64			
	1/2B	16		Half length 'B' body	
		32			
	C	32		3 row body	
		64			
		96			
	1/2C	32		Half length 'C' body	
		48			
	6A @ 125Vac/dc	D	32		
		F	48		
15A @ 500Vac/dc	H	15			
6A @ 125Vac/dc 15A @ 500Vac/dc	MH	24+7		Mixed contact bodies	
Signal 3A @ 350V ac/dc Power 10A Coax 50Ω	M	42+6			
		60+4			
		78+2			
2A @ 250Vac/dc	Q	64		Reverse sex 'B' body	
		1/2Q	32	Half length 'Q' body	
	R	64		Reverse sex 'C' body	
		96			
	1/2R	32		Half length 'R' body	
		48			

● = Populated, + = Unpopulated, ○ = Mounting hole

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**DIN41612 Performance Levels**

Classes 1, 2 and 3 are the performance levels as specified in DIN41612, part 5. Connectors appearing in this catalogue will meet the minimum performance levels as shown below and will often exceed them. See individual connector specifications.

**Class 1**

Service life 500 mating cycles min.  
250 mating cycles Measurement of contact resistance. Visual inspection.  
10 day gas test No abrasion of the contact finish through to base material.  
250 mating cycles No functional impairment.

**Class 2**

Service life 400 mating cycles min.  
200 mating cycles Measurement of contact resistance. Visual inspection.  
4 day gas test No abrasion of the contact finish through to base material.  
200 mating cycles No functional impairment.

**Class 3**

Service life 50 mating cycles min.  
Visual inspection. No gas test. No functional impairment.

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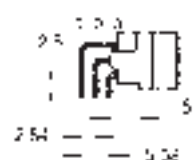
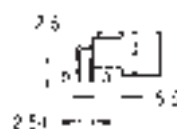
**DIN41612 Class 1, 2 and 3**



	Class 1	Class 2	Class 3
Mating cycles	500	400	400
Industrial atmospheres	10 days	4 days	
Gold plating thickness	0.8μ	0.3μ	Female 0.3μ/ Male 0.1μ
Contact rating	2A @ 20°C	Insertion/ extraction force	96 contacts≤90N/≥15N
Contact resistance	15mΩ max		64 contacts≤60N/≥10N
Working voltage	330Vac/470Vdc		32 contacts≤30N/≥5N
Insulation resistance	1Ω	Housing Colour	Polyester, 32 Light Grey
Test voltage between contacts	1000Vrms	Contact material	Female Phosphor Bronze
contacts and earth	1500Vrms	Male	Brass
Temperature range	-65°C to +125°C	Contact plating	Active Gold over Nickel
		Termination	Tin/Lead over Nickel

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**90° PCB Plugs 'B' and 'C' Body**

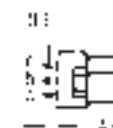
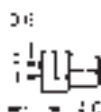


PCB hole dia.=1.0, Mounting holes=2.85 dia. x 88.9, Pin spacing=2.54

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No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+	+
<b>Class 1</b>							
<b>2 Row 'B' Body</b>							
32	a	225-265	189.00	170.00	161.00	145.00	--
32	a	109-7917	189.00	170.00	161.00	145.00	--
64	a+b	225-289	206.00	183.00	173.00	156.00	--
64	a+b	109-7918	206.00	183.00	173.00	156.00	--
<b>3 Row 'C' Body</b>							
32	a+c(even)	225-290	176.00	153.00	136.00	115.00	--
32	a+c(even)	109-7919	176.00	153.00	136.00	115.00	--
64	a+c	225-307	255.00	230.00	216.00	196.00	--
64	a+c	109-7920	255.00	230.00	216.00	196.00	--
96	a+b+c	225-319	362.00	327.00	310.00	278.00	--
96	a+b+c	109-7922	362.00	327.00	310.00	278.00	--
<b>Class 2</b>							
<b>2 Row 'B' Body</b>							
32	a	225-320	164.00	147.00	131.00	107.00	--
32	a	109-7923	164.00	147.00	131.00	107.00	--
64	a+b	225-332	197.00	178.00	158.00	130.00	--
64	a+b	109-7924	197.00	178.00	158.00	130.00	--
<b>3 Row 'C' Body</b>							
64	a+c	225-344	196.00	176.00	156.00	128.00	--
64	a+c	109-7925	196.00	176.00	156.00	128.00	--
96	a+b+c	225-356	284.00	255.00	228.00	186.00	--
96	a+b+c	109-7926	284.00	255.00	228.00	186.00	--
<b>Class 3 (5 Per Pack)</b>							
<b>Price Per Pack</b>							
			1+	5+	20+	100+	+
<b>2 Row 'B' Body</b>							
64	a+b	225-370	766.00	680.00	645.00	584.00	--
64	a+b	109-7927	766.00	680.00	645.00	584.00	--
<b>3 Row 'B' Body</b>							
64	a+c	225-381	725.00	645.00	611.00	552.00	--
64	a+c	109-7928	725.00	645.00	611.00	552.00	--
96	a+b+c	225-393	900.00	869.00	822.00	699.00	--
96	a+b+c	109-7929	900.00	869.00	822.00	699.00	--

**PCB Sockets 'B' and 'C' Body**



PCB hole dia.=1.0, Mounting holes=2.85 dia.x90.0, Pin spacing=2.54

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No. of Ways	Rows Loaded	Order Code	1+	10+	50+	100+
<b>Class 1</b>						
<b>2 Row 'B' Body</b>						
32	a	121-1660	260.00	240.00	227.00	215.00
32	a+b (Even)	121-1671	1,215.00	1,101.00	1,054.00	1,002.00
64	a+b	121-1661	355.00	329.00	311.00	295.00