

# MIL-DTL-83723 Series III

## Bayonet Coupling, Crimp Rear Release



Apollo Aerospace Components is a franchised distributor of selected mil-specification connectors for leading QPL manufacturers. We offer a comprehensive inventory of backshells, contacts and connector accessories.

A family of medium-sized environmentally resistant circular connectors. A variety of body styles and three coupling choices: threaded, bayonet or quick disconnect provide a very adaptable product range particularly suitable for airborne interconnections via bulkheads.



### Product Features

- Bayonet coupling
- A broad range of mating styles
- A broad range of plating options
- Different key / keyway options
- 600 operating VAC (RMS) at sea level
- 500 mating cycles minimum
- Operating temperature - 65degC (- 85degF) to +200degC (+392degC)

### Product Benefits

- Quick positive coupling
- Versatile mounting for a broad range of applications
- Prevention of mating with adjacent similar connectors
- RFI grounding for EMI shielding
- Complete environmental sealing with individual contact sealing by design



Apollo Aerospace Components  
The Clock House, Gaters Mill,  
Mansbridge Road,  
Southampton, SO18 3HW

T: +44 (0) 1489 861378  
E: [electrical-sales@apollo-aerospace.com](mailto:electrical-sales@apollo-aerospace.com)

[www.apollo-aerospace.com](http://www.apollo-aerospace.com)

# MIL-DTL-83723 Series III

## Bayonet Coupling, Crimp Rear Release



### How to order

MIL-DTL-83723 Series III Bayonet coupling Crimp Rear Release (example)

<b>M83723</b>	<b>/76</b>	<b>R</b>	<b>10</b>	<b>05</b>	<b>N</b>
Military Prefix	Shell & Contact Style	Service Class	Shell Size	Contact Arrangement	Polarisation N is Normal. See specification or product page for all variants

#### SHELL AND CONTACT STYLE, MIL-DTL-83723 BAYONET COUPLING

Prefix/Contact Style		Shell Style	Available in class
Pin	Socket		
<b>M83723/65</b>	-	Hermetic jam nut receptacle, crimp termination	H
<b>M83723/72</b>	<b>M83723/71</b>	Wall mount receptacle	A,G,R,W
<b>M83723/74</b>	<b>M83723/73</b>	Jam nut receptacle	A,G,R,W
<b>M83723/76</b>	<b>M83723/75</b>	Straight plug	A,G,R,W
<b>M83723/78</b>	<b>M83723/77</b>	Straight plug, EMI grounding	G,R,W
<b>M83723/79</b>	-	Hermetic box mount receptacle, solder termination	H,Y
<b>M83723/80</b>	-	Hermetic solder mount receptacle, solder termination	H,Y
<b>M83723/81</b>	-	Hermetic jam nut receptacle, solder termination	H,Y
<b>M83723/93</b>	-	Hermetic solder mount receptacle, flex lead termination	H,Y
<b>M83723/94</b>	-	Hermetic jam nut receptacle, flex lead termination	H,Y

#### CLASS - BAYONET COUPLING

Class	Description	Material	Finish	Temp
<b>A</b>	Environmental, fluid resistant	Aluminium	Black anodize	+200degC
<b>G</b>	Environmental, fluid resistant	Stainless steel	Passivated	+200degC
<b>H</b>	Hermetic, solder cups	Steel	Fused tin	+150degC
<b>J</b>	Hermetic, eyelet contacts	Steel	Fused tin	+150degC
<b>M</b>	Environmental, fluid resistant	Aluminium	Electrodeposited aluminium	+175degC
<b>P</b>	Hermetic, eyelet contacts	Stainless steel	Passivated	+200degC
<b>R</b>	Environmental, fluid resistant	Aluminium	Electroless nickel	+200degC
<b>T</b>	Environmental, fluid resistant	Aluminium	Nickel flouorocarbon polymer	+175degC
<b>W</b>	Environmental	Aluminium	Cadmium olive drab, 500hr salt spray	+175degC
<b>Y</b>	Hermetic	Stainless steel	Passivated	+200degC
<b>Z</b>	Environmental, fluid resistant	Aluminium	Zinc nickel	+175degC

MIL-DTL-83723 Series III connectors: are available in threaded, bayonet and quick disconnect variants.

EN2997 and ESC10 connectors: are enhanced versions of the MIL-DTL-83723 connectors, they feature improved anti-rotation on the thread coupling version and will accommodate both the older generation and the latest generation of wire sizes.

Please enquire for details.

#### MIL-DTL-83723 SERIES III

##### INSERT CONFIGURATION BY SHELL SIZE

Shell Size	NUMBER OF CONTACTS			
	Total	CONTACT SIZE		
		20	16	12
<b>8-2</b>	2	2		
<b>8-3</b>	3	3		
<b>8-98</b>	3	3		
<b>10-2</b>	2	2		
<b>10-5</b>	5	5		
<b>10-6</b>	6	6		
<b>10-20</b>	2		2	
<b>12-3</b>	3		3	
<b>12-12</b>	12	12		
<b>14-4</b>	4			4
<b>14-7</b>	7		7	
<b>14-12</b>	12	9	3	
<b>14-15</b>	15	15		
<b>16-10</b>	10		10	
<b>16-24</b>	24	24		
<b>18-8</b>	8			8
<b>18-14</b>	14		14	
<b>18-31</b>	31	31		
<b>20-16</b>	16		16	
<b>20-25</b>	25	19		6
<b>20-28</b>	28	24		4
<b>20-39</b>	39	37	2	
<b>20-41</b>	41	41		
<b>22-12</b>	12			12
<b>22-19</b>	19			19
<b>22-32</b>	32	26		6
<b>22-39</b>	39	27	12	
<b>22-55</b>	55	55		
<b>24-19</b>	19			19
<b>24-43</b>	43	23	20	
<b>24-57</b>	57	55		2
<b>24-61</b>	61	61		