

MIL-DTL-83723 Series III

Threaded 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

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

Product Benefits

- Greater resistance to decoupling
- 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



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How to order

MIL-DTL-83723 Series III Crimp Rear Release Threaded Coupling (example)

M83723	/86	R	10	05	N
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 THREADED COUPLING

Prefix/Contact Style	Socket	Shell Style	Available in class
M83723/66	M83723/67	Straight plug, push-pull quick disconnect	A,G,R,W
M83723/68	M83723/69	Straight plug, push-pull quick disconnect with lanyard	A,G,R,W
M83723/83	M83723/82	Wall mount receptacle	A,G,K,M,N,S,T,W,Z
M83723/85	M83723/84	Jam nut receptacle	A,G,K,M,N,S,T,W,Z
M83723/87	M83723/86	Straight plug	A,G,K,R,W
M83723/88	-	Hermetic box mount receptacle, solder termination	J,L,N,PY
M83723/89	-	Hermetic jam nut receptacle, solder termination	J,L,N,PY
M83723/90	-	Hermetic solder mount receptacle, solder termination	J,L,N,PY
M83723/92	M83723/91	Straight plug, EMMI grounding	G,R,W
M83723/96	M83723/95	Straight plug, self-locking coupling nut	A,G,K,R,W
M83723/98	M83723/97	Straight plug, self-locking coupling nut, EMI grounding	N,S

MIL-DTL-83723 SERIES III

INSERT CONFIGURATION BY SHELL SIZE

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

CLASS - THREADED COUPLING

Class	Description	Material	Finish	Temp
A	Environmental, fluid resistant	Aluminium	Black anodize	+200degC
G	Environmental, fluid resistant	Stainless steel	Passivated	+200degC
H	Hermetic, solder cups	Steel	Fused tin	+150degC
J	Hermetic, eyelet contacts	Steel	Fused tin	+150degC
K	Environmental, firewall, fluid resistant	Stainless steel	Passivated	+200degC
M	Environmental, fluid resistant	Aluminium	Electrodeposited aluminium	+175degC
N	Plugs same as Class S, receptacle same as Class S or Y	Stainless steel	Electrodeposited nickel	+200degC
P	Hermetic, eyelet contacts	Stainless steel	Passivated	+200degC
R	Environmental, fluid resistant	Aluminium	Electroless nickel	+200degC
S	Environmental, fluid resistant, EMI grounding, self-locking firewall	Stainless steel	Passivated	+200degC
T	Environmental, fluid resistant	Aluminium	Nickel flouorocarbon polymer	+175degC
W	Environmental	Aluminium	Cadmium olive drab, 500hr salt spray	+175degC
Y	Hermetic	Stainless steel	Passivated	+200degC
Z	Environmental, fluid resistant	Aluminium zinc nickel	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.