

SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-031 Crimp Plug, Float Mount , Roll-On / Roll-Off Nose MIL-STD-1560 power and signal insert arrangements



253-031 jam-nut panel-mount crimp-contact plug with misalignment accommodation

HOW TO ORDER						
Sample Part No.	253-031	-07	ME	25-35	P	N
Basic Part No.	253-031 Blind-mate plug with non-adjustable assisted separation					
Connector Mounting	-07 = Floating flange mount plug					
Material/Finish	MN = Al Alloy, MegaNickel, per D38999 class AA ME = Aluminum, electroless nickel MT = Aluminum, nickel PTFE ZL = CRES, electrodeposited nickel Z1 = CRES, passivated					
Shell Size-Insert Arrangement*	Per MIL-STD-1560; symmetrical layouts only, See contact arrangements table					
Contact Type	P = Pin, crimp removable A = Pin insert less contacts S = Socket, crimp removable B = Socket insert less contacts					
Alternate Polarization*	A = 40°, B = 65°, C = 80°, D = 210°, E = 250°, F = 280°, G = 310°, H = 330°, N = 135° (Normal) Per L° BSC. Refers to blind mate side.					

ADAPTER CODE	F
"F" adapter code accessories (D38999 Series I, imperial thread) fit this connector	

253-031 plug mates with 253-032 receptacle
Space-grade modification codes may be added directly to the end of any valid part number

DIMENSIONS							
*Dimensions shown are for reference only and not intended to be verified during final inspection							
Shell Size	ØA Max	Thd B Class 2A	C Max	E ±.016(0.4)	ØF Max	G Thd Class 2A	K .011/-0.010 (.28/.25)
11	.673 (17.09)	1.0000-20 UNEF	1.181 (30.00)	1.375 (34.92)	1.511 (38.38)	.5625-24	.109 (2.77)
13	.798 (20.27)	1.1250-18 UNEF	1.300 (33.02)	1.500 (38.10)	1.636 (41.55)	.6875-24	.109 (2.77)
15	.923 (23.44)	1.2500-18 UNEF	1.457 (37.01)	1.625 (41.28)	1.761 (44.73)	.8125-20	.109 (2.77)
17	1.048 (26.62)	1.3750-18 UNEF	1.575 (40.00)	1.812 (46.02)	1.949 (49.50)	.9375-20	.140 (3.56)
19	1.173 (29.79)	1.5000-18 UNEF	1.693 (43.00)	1.938 (49.23)	2.073 (52.65)	1.0625-18	.140 (3.56)
21	1.298 (32.97)	1.6250-18 UNEF	1.811 (46.00)	2.062 (52.37)	2.200 (55.88)	1.1875-18	.140 (3.56)
23	1.423 (36.14)	1.7500-18 UNS	2.016 (51.21)	2.187 (55.55)	2.323 (59.00)	1.3125-18	.140 (3.56)
25	1.548 (39.32)	1.8750-16 UNS	2.125 (53.97)	2.312 (58.72)	2.448 (62.18)	1.4375-18	.140 (3.56)

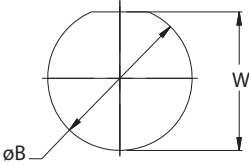
SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-031 Crimp Plug, Float Mount, Roll-On / Roll-Off Nose, Assisted Kick-Off
MIL-STD-1560 power and signal insert arrangements

NOTES:

- Connector mates with Glenair 253-032 series connector, having the same insert arrangement and polarization.
- Insert arrangement is in accordance with MIL-STD-1560 arrangements only. Contact manufacturer for availability
- Material/finish
 - Shell, jam-nut: see part number development table, finish
 - Insulators: high-grade rigid dielectric
 - Contacts: copper alloy/gold plated
 - O-ring: fluorosilicone blend

RECOMMENDED PANEL CUTOUT			
	Shell Size	Ø B .010/- .000 (0.25/.00)	W +.000/- .010 (.00/- .25)
	11	1.010	0.955
	13	1.135	1.085
	15	1.260	1.210
	17	1.385	1.335
	19	1.510	1.460
	21	1.635	1.585
	23	1.760	1.710
	25	1.885	1.835

CONTACT ARRANGEMENTS: HIGH-DENSITY, STANDARD, AND COMBO																
HIGH-DENSITY			Contact Type	#20 Contact Qty.	Shell Size - Contact Arr.	Contact Type	#16 Contact Qty.	Shell Size - Contact Arr.	COMBO				Shell Size - Contact Arr.			
Contact Type	#23 Contact Qty.	Shell Size - Contact Arr.							No. Contacts							
Size #23 High-Density 5 Amp Max. Current #22-#26 AWG	19	11-23	Size #20 7.5 Amp Max. Current #20-#24 AWG	4	11-4	Size #16 Contacts 13 Amp Max. Current #16-#20 AWG	2	11-2	#20	#16	#12	#10				
	32	13-23		5	11-5		4	13-4	14	1			15-15			
	55	15-23		6	11-98		5	15-5	8	4			15-97			
	73	17-23		7	11-99		8	17-8	21	2			17-99			
	88	19-23		8	13-8		11	19-11	26	2			19-28			
	121	21-23		10	13-98		16	21-16	29	1			19-30			
	151	23-23		18	15-18		21	23-21	19	4	4		21-29			
	187	25-23		19	15-19		16	23-97	37	2			21-39			
STANDARD				26	17-26		11	23-99	48	8			25-4			
Contact Type	#22D Contact Qty.	Shell Size - Contact Arr.		32	19-32		29	25-29	2			9	25-11			
Size #22D 5 Amp Max. Current #22-#28 AWG	13	11-35		24	21-24		37	25-37		12	12		25-24			
	22	13-35		25	21-25									23	20	
	37	15-35		27	21-27	Size #12 Contacts 23 Amp Max. Current #12-14 AWG	#12 Contact Qty.	Shell Size - Contact Arr.								
	55	17-35		41	21-41				6	17-6						
	66	19-35		32	23-32				11	21-11						
	67	19-35		34	23-34				19	25-19						
	79	21-35		36	23-36											
	100	23-35		53	23-53											
	128	25-35		55	23-55											
				61	25-61											