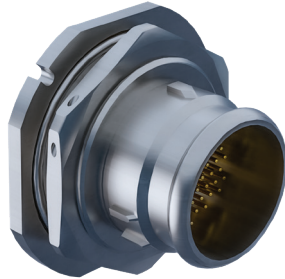


SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-027-07 PC Tail Plug, Fixed Jam-Nut Mount, Roll-On/Roll-Off Nose,
Threaded-Standoff · MIL-STD-1560 power and signal insert arrangements



253-027-07
Jam-nut fixed-mount plug with roll-on/
roll-off nose

HOW TO ORDER							
Sample Part No.	253-027-07	ME	17	-8	P	N	T
Basic Part No.	253-027-07 = Blind-mate plug for use with 253-028 receptacle						
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	See Dimensions Table						
Insert Arrangement	Per MIL-STD-1560; symmetrical layouts only, See contact arrangements table						
Contact Style	P = Pin S = Socket						
Alternate Polarization*	N, A, B, C, D, E						
Contact type	T = PC Tail C = Solder Cup						

The 253-027-07 fixed jam-nut panel-mount PC tail plug mates with 253-028-07 fixed-mount PC tail receptacles and 253-015 float-mount receptacles.
Space-grade modification codes may be added directly to the end of any valid part number

253-027-07 BLIND-MATE PLUG DIMENSIONS

The figure displays three technical views of the 253-027-07 Blind-Mate Plug: a front view, a side view for the 'Pc Tail' configuration, and a side view for the 'Solder Cup' configuration.

Front View: Shows a hexagonal base with a central circular area containing eight small holes. Dimensions include a .081 (2.06) chamfer at a 45° angle, a Master Key, a (T) thickness, a (C) Hex. diameter, and a (B) Sq. diameter. The outer diameter is labeled (Ø E).

Side View (Pc Tail): Shows the plug with a tail. Dimensions include a .956 (24.28) / .948 (24.08) top diameter, a .126 (3.20) tail diameter, a (D) Thread, a (G) gap, a (Ø A) Major Key Dia., a .235 (5.97) / .225 (5.72) base diameter, and a .225 (5.72) / .175 (4.45) tail diameter. The tail length is (V).

Side View (Solder Cup): Shows the plug with a solder cup. Dimensions include a .956 (24.28) / .948 (24.08) top diameter, a .126 (3.20) tail diameter, a (D) Thread, a (G) gap, a (Ø A) Major Key Dia., a .235 (5.97) / .225 (5.72) base diameter, and a .225 (5.72) / .175 (4.45) tail diameter. The tail length is (V).

Top View: Shows the circular top of the plug with eight holes. Dimensions include a .225 (5.72) Typ diameter, a 2x (H) hole diameter, a Ø R Min. radius, and a 4x #4-40 UNC-2B X .156 Min Th'd Dp @ 90° Apart hole pattern.

Shell Size	A Dia. Max.	B ±.010	C ±.010	D Thread	Ø E Max.	G. Thk	Ø H BSC	T +.00/- .008	Ø R Min.
11	0.673	1.250	1.016	0.8125-20 UNEF	1.386	.122 .083	0.719	0.604	0.468
13	0.798	1.375	1.181	1.0000-20 UNEF	1.511		0.812	0.666	0.572
15	0.923	1.500	1.300	1.1250-18 UNEF	1.636		0.906	0.729	0.705
17	1.048	1.625	1.457	1.2500-18 UNEF	1.761		1.030	0.791	0.830
19	1.173	1.812	1.575	1.3750-18 UNEF	1.949	.153 .114	1.150	0.893	0.934
21	1.298	1.938	1.693	1.5000-18 UNEF	2.073		1.221	0.955	1.055
23	1.423	2.062	1.811	1.6250-18 UNEF	2.200		1.360	1.017	1.160
25	1.548	2.187	2.016	1.7500-18 UNS	2.323		1.475	1.096	1.307

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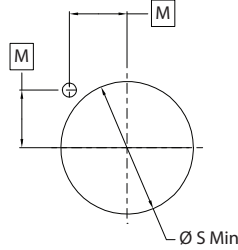
253-027-07 PC Tail Plug, Fixed Jam-Nut Mount, Roll-On/Roll-Off Nose, Threaded-Standoff · MIL-STD-1560 power and signal insert arrangements

NOTES:

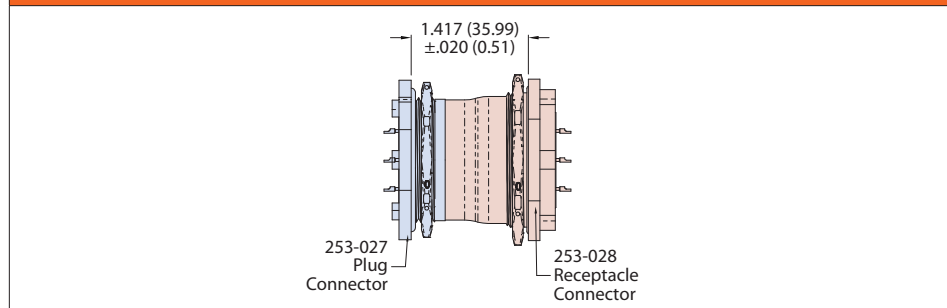
- Glenair's 253-027-07 plug connector is designed to mate with Glenair 253-015 or 253-028-07 receptacle connectors, having the same shell size, insert arrangement, and polarization.
- Connector is designed with fixed PC tail contacts or fixed solder cup contacts. Specify Mod Code 491 for potting process that meets or exceeds ingress protection rating IP67 and is environmentally sealed with a leak rate of $<1 \times 10^{-4}$ cc/hr in an unmated condition.
- Insert arrangement is in accordance with MIL-STD-1560. Contact manufacturer for additional arrangement options.
- Materials:
 - Contacts - copper alloy
 - Insulators - high-grade rigid dielectric
 - O-ring - fluorosilicone blend
 - Potting - epoxy

PANEL CUT-OUT DIMENSIONS

Shell Size	Ø S Min	M BSC
11	0.821	0.460
13	1.007	0.504
15	1.134	0.549
17	1.259	0.593
19	1.384	0.665
21	1.507	0.709
23	1.634	0.753
25	1.759	0.806



253-027 - 253-028 DISTANCE BETWEEN MATED FLANGES



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				
Contact Type	#23 Contact Qty.	Shell Size - Contact Arr.							No. Contacts				Shell Size - Contact Arr.
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	Shell Size - Contact Arr.
	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
Size #22D 5 Amp Max. Current #22-#28 AWG	26	17-26		32	19-32		11	23-99	48	8			25-4
	24	21-24		29	25-29		2	25-11				9	25-11
	25	21-25		37	25-37					12	12		25-24
	27	21-27		Size #12 Contacts 23 Amp Max. Current #12-14 AWG			23	20				25-43	
	41	21-41			Contact Type	#12 Contact Qty.	Shell Size - Contact Arr.						
	32	23-32			Size #12 Contacts	6	17-6						
	34	23-34			23 Amp Max. Current	11	21-11						
	36	23-36			#12-14 AWG	19	25-19						
	53	23-53											
	55	23-55											
	61	25-61											