

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



253-028-07 PC Tail Receptacle, Fixed Jam-Nut Mount, Chamfered Nose, Threaded-Standoff · MIL-STD-1560 power and signal insert arrangements



253-028-07 fixed jam-nut panel-mount PC tail receptacle with misalignment accommodation and external environmental seal

HOW TO ORDER								
Sample Part No.	253-028-07	ME	17	-8	S	N	T	
Basic Part No.	253-028-07 = Blind-mate receptacle for use with 253-027 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	See Dimensions Table							
Shell Size-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							
Jam nut type	= Omit for hex style jam nut S = Spanner style jam nut (Tool PN 600-211)							

The 253-028-07 fixed jam-nut panel-mount PC tail receptacle mates with 253-027-07 fixed-mount PC tail plugs
Space-grade modification codes may be added directly to the end of any valid part number

253-028-07 BLIND-MATE RECEPTACLE, DIMENSIONS										
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.	Ø C
11	0.853	1.266	1.181	1.0000-20 UNEF	1.500	.122 .083	0.906	0.666	0.468	1.264
13	0.978	1.391	1.300	1.1250-18 UNEF	1.641		1.030	0.729	0.572	1.388
15	1.103	1.516	1.457	1.2500-18 UNEF	1.750		1.150	0.791	0.705	1.512
17	1.228	1.641	1.575	1.3750-18 UNEF	1.938		1.221	0.893	0.830	1.638
19	1.353	1.828	1.693	1.5000-18 UNEF	2.062	.153 .114	1.360	0.955	0.934	1.823
21	1.478	1.954	1.811	1.6250-18 UNEF	2.188		1.475	1.017	1.055	1.953
23	1.603	2.078	2.010	1.7500-18 UNS	2.312		1.615	1.080	1.160	2.075
25	1.728	2.128	2.209	1.8750-16 UNS	2.327		1.895	1.086	1.307	2.122

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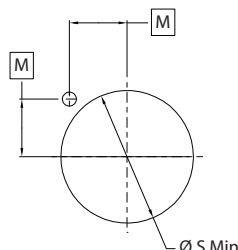
253-028-07 PC Tail Receptacle, Fixed Jam-Nut Mount, Chamfered Nose, Threaded-Standoff · MIL-STD-1560 power and signal insert arrangements

NOTES:

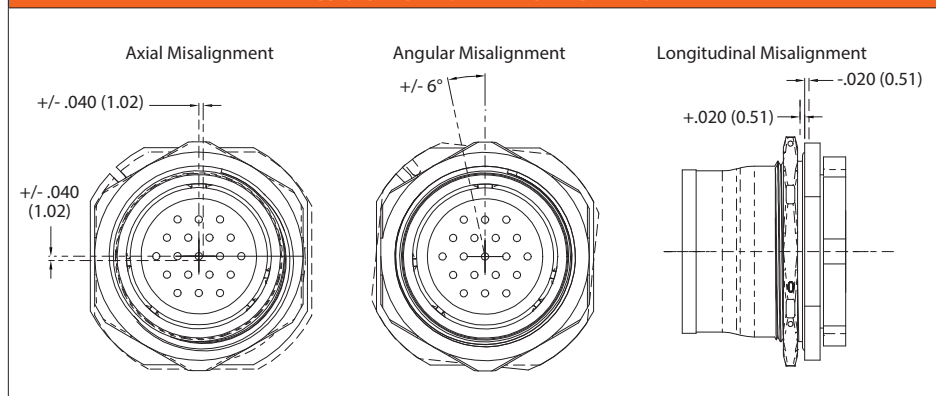
- Glenair's 253-028-07 receptacle connector is designed to mate with Glenair 253-014 or 253-027-07 plug connectors, having the same shell size, insert arrangement, and polarization.
- Connector is designed with fixed PC tail contacts or fixed solder cup contacts. Specify Mod Code 491 for potting process that meets or exceeds ingress protection rating IP67 and is environmentally sealed with a leak rate of $<1 \times 10^{-4}$ cche/sec in an unmated condition.
- Insert arrangement is in accordance with MIL-STD-1560. Contact manufacturer for additional arrangement options.
- Glenair does not recommend the use of fixed solder PC tails on this connector. Due to the misalignment capability of the connector, there exists movement between the shell (housing the insert) and the mounting flange. This movement has the potential to damage a fixed PC tail-PC board interface.
- Materials:
 - Contacts - copper alloy
 - Insulators - high-grade rigid dielectric
 - O-ring - fluorosilicone blend
 - Potting - epoxy

PANEL CUT-OUT DIMENSIONS

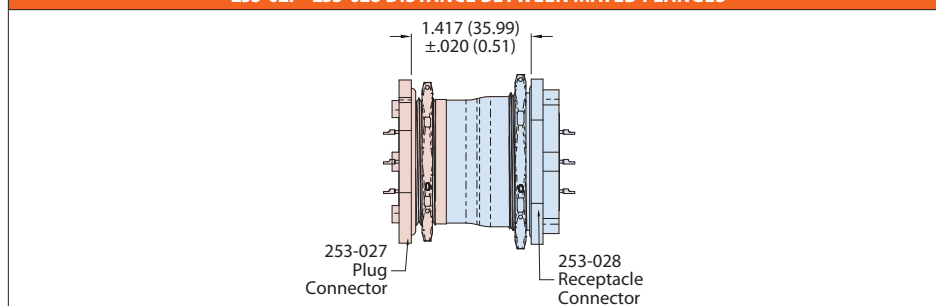
Shell Size	Ø S Min	M BSC
11	1.007	0.504
13	1.134	0.549
15	1.259	0.593
17	1.384	0.665
19	1.507	0.709
21	1.634	0.753
23	1.759	0.797
25	1.884	0.799



253-028 MISALIGNMENT CAPABILITIES



253-027 - 253-028 DISTANCE BETWEEN MATED FLANGES



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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					
STANDARD	Contact Type	#22D Contact Qty.		Shell Size - Contact Arr.	26		17-26		11	23-99	48	8			25-4			
					32		19-32		29	25-29	2			9	25-11			
					24		21-24		37	25-37		12	12		25-24			
					25		21-25		Contact Type			#12 Contact Qty.			Shell Size - Contact Arr.			
					27	21-27												
					41	21-41	Size #12 Contacts 23 Amp Max. Current #12-14 AWG			6			17-6					
					32	23-32												
					34	23-34												
					36	23-36												
					53	23-53												
					55	23-55												
					61	25-61												
					Size #22D 5 Amp Max. Current #22-#28 AWG	Contact Type	#22D Contact Qty.	Shell Size - Contact Arr.	Contact Type			#12 Contact Qty.			11			21-11
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