

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



253-018 Bulkhead Feed-Thru, Jam-Nut or In-Line Plug to B-Side D38999 Type Connector, Assisted Kick-Off · MIL-STD-1560 power and signal insert arrangements

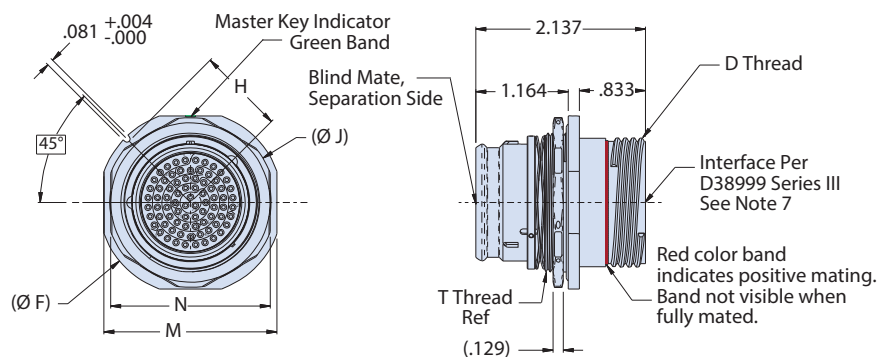


253-018 bulkhead feed-thru with assisted kick-off

HOW TO ORDER						
Sample Part No.	253-018	-07	ME	25-35	PP	N
Basic Part No.	253-018 = Blind-mate feed-thru					
Connector style	-07 = Jam-nut mount, feed-thru plug (fixed) with rear D38999 type receptacle interface -G6 = In-line plug with rear D38999 type plug interface and EMI spring					
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 Style	PP = Pin on both sides SS = Socket on both sides BSDP = Blind-mate side socket - D38999 side pin BPDS = Blind-mate side pin - D38999 side socket					
Alternate Polarization*	A = 40°, B = 65°, C = 80°, D = 210°, E = 250°, F = 280°, G = 310°, H = 330°, N = 135° (Normal) Per L°. G6 only Refers to blind mate side. Plug/Receptacle side per MIL-DTL-38999					

253-018 Bulkhead feedthrus mate with 253-019 jam-nut mount receptacles
Space-grade modification codes may be added directly to the end of any valid part number

253-018-07 JAM-NUT FEEDTHROUGH - DIMENSIONS

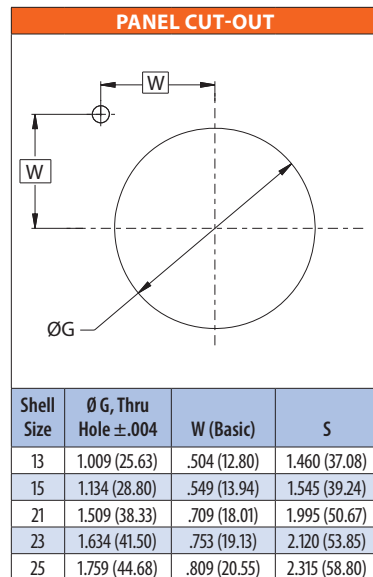


Shell Size	F Flange	H (End of Slot) [+0/-0.008 (-.20)]	Ø J, Jam Nut	N, Jam Nut Flat	M, Flange Flats ±.010 (±.25)	T Thread Class 2A	D Thread 0.1P-0.3L-TS-2
13	1.515 (38.48)	.666 (16.92)	1.375 (34.93)	1.175 (29.85)	1.430 (36.32)	1.000-20 UNEF	0.875 (22.23)
15	1.636 (41.55)	.729 (18.52)	1.500 (38.10)	1.300 (33.02)	1.500 (38.10)	1.125-18 UNEF	1.000 (25.40)
21	2.065 (52.45)	.955 (24.26)	1.875 (47.63)	1.688 (42.88)	1.930 (49.02)	1.500-18 UNEF	1.375 (34.92)
23	2.200 (55.88)	1.017 (25.83)	2.063 (52.40)	1.875 (47.63)	2.060 (52.32)	1.625-18 UNEF	1.500 (38.10)
25	2.316 (58.83)	1.096 (27.84)	2.141 (54.38)	2.010 (51.05)	2.180 (55.37)	1.750-18 UNS	1.625 (41.28)

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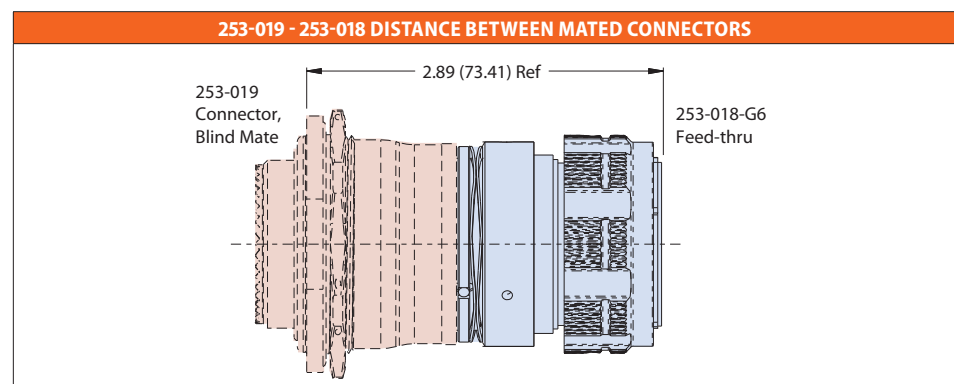
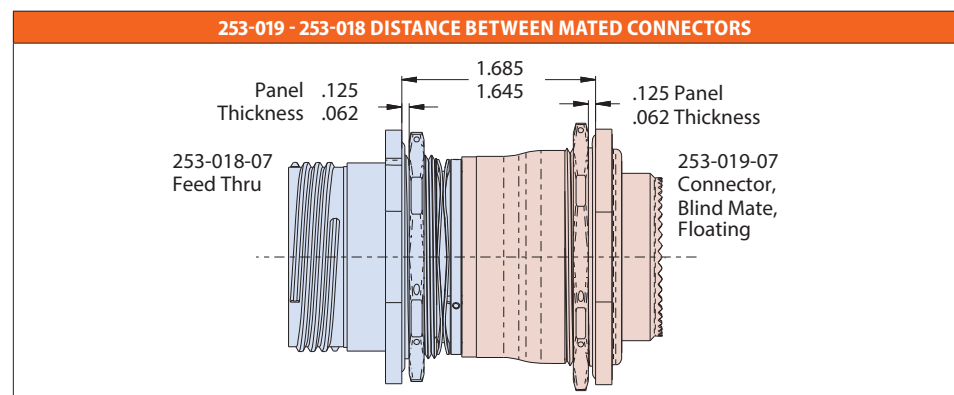
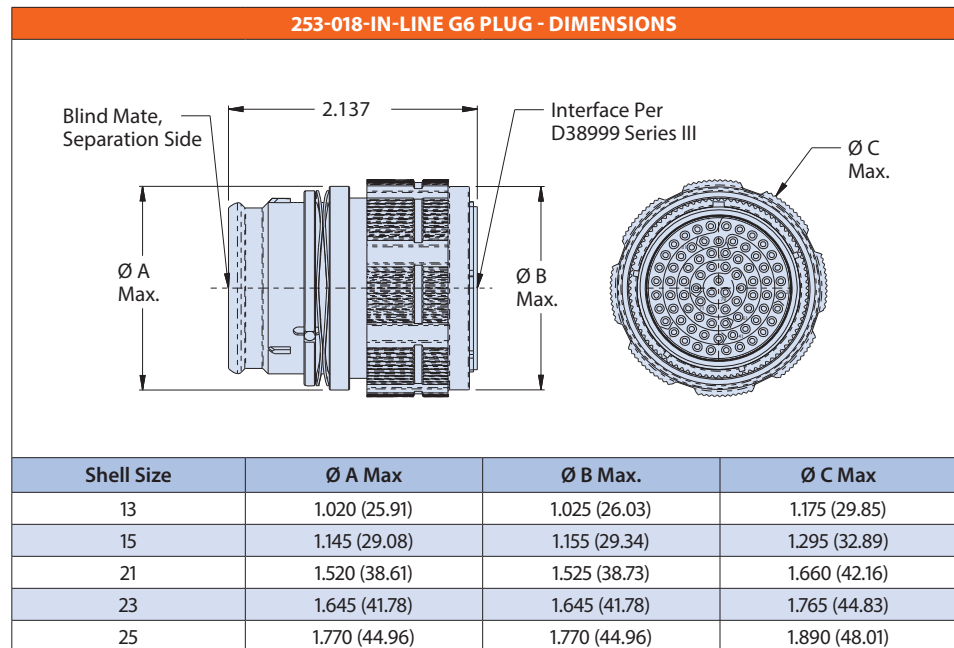


253-018 Bulkhead Feed-Thru, Jam-Nut or In-Line Plug to B-Side D38999 Type Connector, Assisted Kick-Off · MIL-STD-1560 power and signal insert arrangements



NOTES:

- Mates with 253-019 and D38999 series III connectors with same insert arrangement and polarization
- Misalignment capabilities are possible when mated to 253-019.
- See Space-Grade guidelines for outgassing/screening options available
- Material/finish
 - Shell, jam-nut coupling nut: see part number development, finish
 - Spring: CRES/passivated
 - Insulators: high-grade rigid dielectric/N.A.
 - O-ring: fluorosilicone blend
 - Contacts: copper alloy/gold plated



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



253-018 Bulkhead Feed-Thru, Jam-Nut or In-Line Plug to D38999 Type Receptacle,
Assisted Kick-Off Spring · MIL-STD-1560 power and signal insert arrangements

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	
				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				23	20			25-43	
				27	21-27									
				41	21-41									
STANDARD														
Contact Type	#22D Contact Qty.	Shell Size - Contact Arr.												
Size #22D 5 Amp Max. Current #22-#28 AWG	13	11-35												
	22	13-35												
	37	15-35												
	55	17-35												
	66	19-35												
	67	19-35												
	79	21-35												
	100	23-35												
	128	25-35												
			61	25-61										