

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



253-015 Crimp Receptacle, Float-Mount Series, Environmental MIL-STD-1560 power and signal insert arrangements



253-015-07
Jam-nut float-mount receptacle with
misalignment accommodation and
environmental seal

ADAPTER CODE F

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

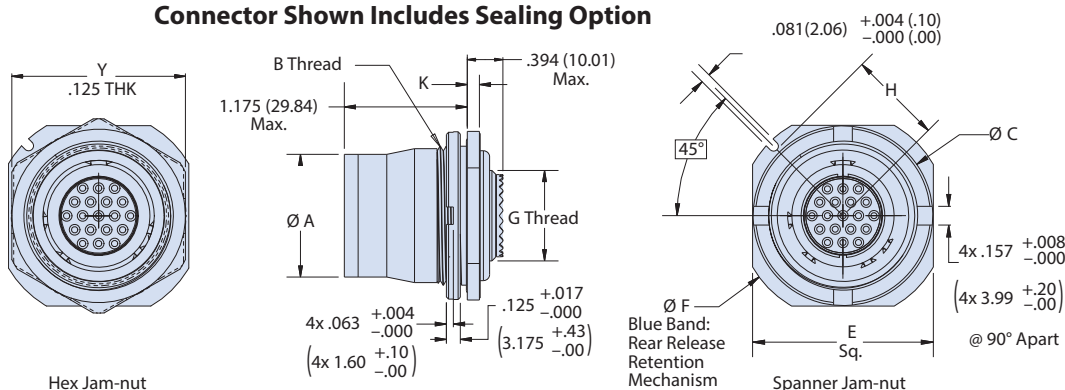
HOW TO ORDER

Sample Part No.	253-015	B	07	ME	25-35	P	N	NS	H
Basic Part No.	253-015 = Receptacle (float mount)								
Accessory Option	B = Integral Backshell — (dash) = Accessory Threads								
Mounting Style	07 = Receptacle, jam-nut panel-mount 00 = Receptacle, panel-mount, slotted holes D0 = Receptacle, panel-mount, round holes								
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, B, C, D, E, N = Normal (Polarization for intermateability with 253-014 is per MIL-DTL-38999 Series I)								
Non-Sealing	NS = Non-Sealing (omit for external elastomer seal version)								
Jam-Nut Type	H = Hex S = Spanner with wire holes								

The 253-015 fixed panel-mount receptacle series mates with 253-014 float-mount plugs
Space-grade modification codes may be added directly to the end of any valid part number

253-015-07 JAM-NUT RECEPTACLE, DIMENSIONS

Connector Shown Includes Sealing Option



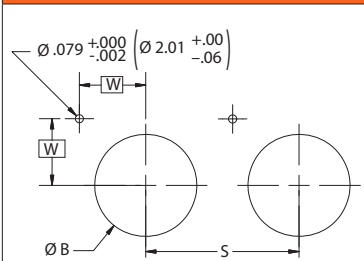
Shell Size	A Max Dia.	Thread B Class 2A	C Max.	Y Hex	E ±.016(.41)	F Max Dia.	G Thd Class 2A	K +.011/.010 (+.28/.25)	H +0/-0.008 (+0/-0.20)
11	.853 (21.67)	1.0000-20 UNEF	1.264 (32.11)	1.181 (30.00)	1.266 (32.16)	1.500 (38.10)	.5625-24	.109 (2.77)	.666 (16.92)
13	.978 (24.84)	1.1250-18 UNEF	1.388 (35.26)	1.300 (33.02)	1.391 (35.33)	1.641 (41.68)	.6875-24	.109 (2.77)	.729 (18.52)
15	1.103 (28.02)	1.2500-18 UNEF	1.512 (38.40)	1.457 (37.01)	1.516 (38.51)	1.750 (44.45)	.8125-20	.109 (2.77)	.791 (20.09)
17	1.228 (31.19)	1.3750-18 UNEF	1.638 (41.61)	1.575 (40.00)	1.641 (41.68)	1.938 (49.23)	.9375-20	.109 (2.77)	.893 (22.68)
19	1.353 (34.37)	1.5000-18 UNEF	1.823 (46.30)	1.693 (43.00)	1.828 (46.43)	2.062 (52.37)	1.0625-18	.140 (3.56)	.955 (24.26)
21	1.478 (37.54)	1.6250-18 UNEF	1.953 (49.61)	1.880 (47.75)	1.954 (49.63)	2.188 (55.58)	1.1875-18	.140 (3.56)	1.017 (25.83)
23	1.603 (40.72)	1.7500-18 UNS	2.075 (52.71)	2.010 (51.05)	2.078 (52.78)	2.312 (58.72)	1.3125-18	.140 (3.56)	1.080 (27.43)
25	1.728 (43.89)	1.8750-16 UNS	2.122 (53.90)	2.125 (53.97)	2.128 (54.05)	2.327 (59.11)	1.4375-18	.140 (3.56)	1.086 (27.58)

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



253-015 Crimp Receptacle, Float-Mount Series, Environmental MIL-STD-1560 power and signal insert arrangements

RECOMMENDED PANEL CUTOUT DIMENSIONS



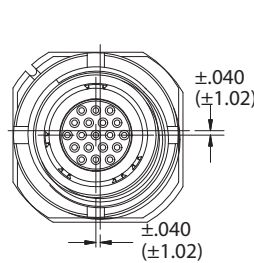
Shell Size	W	B Dia. ±.004 (.10)	S
11	.504 (12.80)	1.007 (25.58)	1.282 (32.56)
13	.549 (13.94)	1.134 (28.80)	1.417 (35.99)
15	.593 (15.06)	1.259 (31.98)	1.559 (39.60)
17	.665 (16.89)	1.384 (35.15)	1.705 (43.31)
19	.709 (18.01)	1.507 (38.28)	1.850 (46.99)
21	.753 (19.13)	1.634 (41.50)	1.992 (50.60)
23	.797 (20.24)	1.759 (44.68)	2.134 (54.20)
25	.799 (20.29)	1.884 (47.85)	2.262 (57.45)

NOTES:

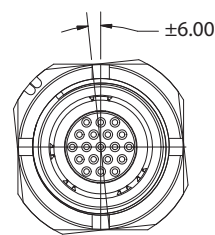
- Spares: pin or socket contacts IAW AS39029 or per Glenair part number if controlled force contacts
- Material/finish
 - Shell, jam-nut: see P/N development, finish
 - Insulator: high-grade rigid dielectric/N.A.
 - Seals: fluorosilicone blend/N.A.
 - Contacts: copper alloy/gold plated

MISALIGNMENT CAPABILITIES

Axial Misalignment

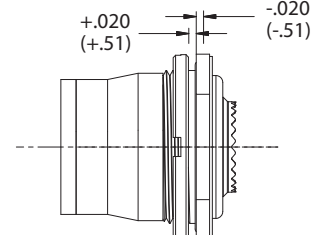


Angular Misalignment

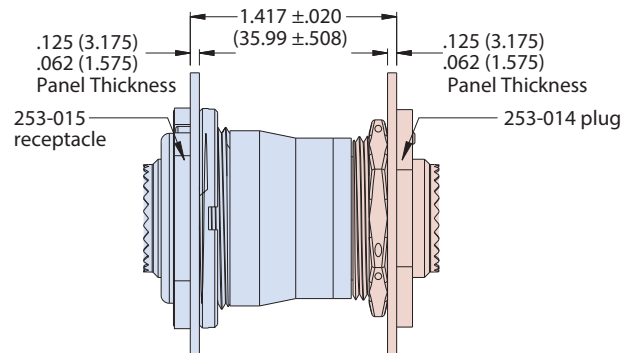


Reference Only (Not Deliverable)

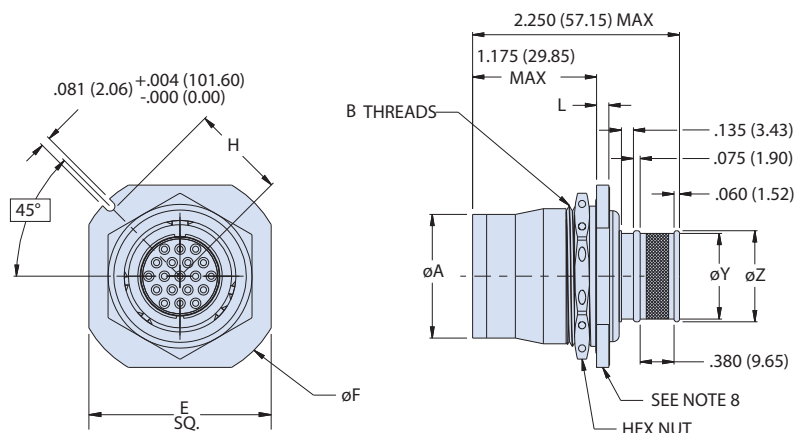
Longitudinal Misalignment



253-015 07 JAM NUT - 253-014 DISTANCE BETWEEN MATED FLANGES



253-015-07 JAM-NUT RECEPTACLE, BOOT GROOVE DIMENSIONS



Shell Size	Diameter A, Max.	Thread B, Class 2A	E [+/- .016]	Diameter F, Max.	H [+0/- .008]	Ø Y	Ø Z
11	0.853 (21.67)	1.0000-20 UNEF	1.266 (32.16)	1.500 (38.10)	0.666 (16.92)	0.600 (15.24)	0.662 (16.81)
13	0.978 (24.84)	1.1250-18 UNEF	1.391 (35.33)	1.641 (41.68)	0.729 (18.52)	0.700 (17.78)	0.762 (19.35)
15	1.103 (28.02)	1.2500-18 UNEF	1.516 (38.51)	1.750 (44.45)	0.791 (20.09)	0.835 (21.21)	0.898 (22.81)
17	1.228 (31.19)	1.3750-18 UNEF	1.641 (41.68)	1.938 (49.23)	0.893 (22.68)	0.960 (24.38)	1.022 (25.96)
19	1.353 (34.37)	1.5000-18 UNEF	1.828 (46.43)	2.062 (52.37)	0.955 (24.26)	1.062 (26.97)	1.125 (28.58)
21	1.478 (37.54)	1.6250-18 UNEF	1.954 (49.63)	2.188 (55.58)	1.017 (25.83)	1.188 (30.18)	1.250 (31.75)
23	1.603 (40.72)	1.7500-18 UNS	2.078 (52.78)	2.312 (58.72)	1.080 (27.43)	1.275 (32.39)	1.338 (33.99)
25	1.728 (43.89)	1.8750-16 UNS	2.128 (54.05)	2.327 (59.11)	1.086 (27.58)	1.475 (37.47)	1.538 (39.07)

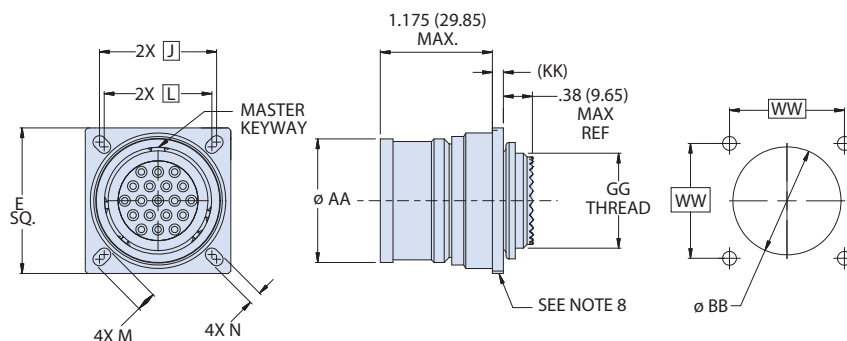
SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



253-015 Crimp Receptacle, Float-Mount Series, Environmental MIL-STD-1560 power and signal insert arrangements

253-015-00 PANEL-MOUNT RECEPTACLE, SLOTTED HOLES, DIMENSIONS

Connector Shown Does Not Include Sealing Option



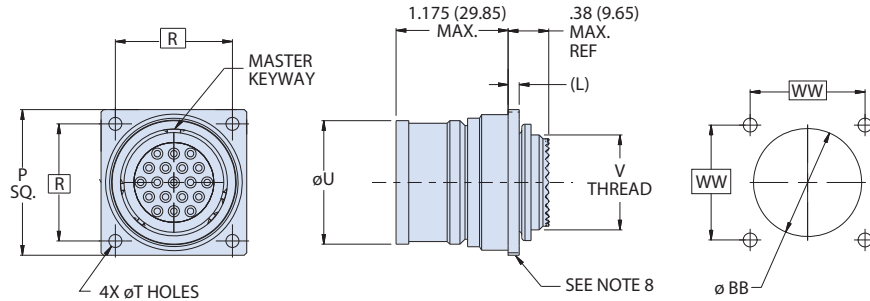
Shell Size	Diameter AA, Max.	E +/- .012	E' +/- .012	J	J'	L	L'	M +/- .008	M' +/- .008	N +/- .008	N' +/- .008	Thread GG, Class 2A	KK [+.011/- .010]
11	0.853 (21.67)	1.126 (28.60)	1.311 (33.30)	0.906 (23.01)	1.062 (26.97)	0.812 (20.62)	0.969 (24.61)	0.194 (4.93)	0.194 (4.93)	0.128 (3.25)	0.128 (3.25)	0.5625-24	0.109 (2.77)
13	0.978 (24.84)	1.220 (30.99)	1.437 (36.50)	0.969 (24.61)	1.156 (29.36)	0.906 (23.01)	1.062 (26.97)	0.173 (4.39)	0.194 (4.93)	0.128 (3.25)	0.128 (3.25)	0.6875-24	0.109 (2.77)
15	1.103 (28.02)	1.311 (33.30)	1.563 (39.70)	1.062 (26.97)	1.250 (31.75)	0.969 (24.61)	1.156 (29.36)	0.194 (4.93)	0.194 (4.93)	0.128 (3.25)	0.128 (3.25)	0.8125-20	0.109 (2.77)
17	1.228 (31.19)	1.437 (36.50)	1.689 (42.90)	1.156 (29.36)	1.375 (34.92)	1.062 (26.97)	1.250 (31.75)	0.194 (4.93)	0.216 (5.49)	0.128 (3.25)	0.128 (3.25)	0.9375-20	0.109 (2.77)
19	1.353 (34.37)	1.563 (39.70)	1.811 (46.00)	1.250 (31.75)	1.500 (38.10)	1.156 (29.36)	1.375 (34.92)	0.194 (4.93)	0.242 (6.15)	0.128 (3.25)	0.154 (3.91)	1.0625-18	0.140 (3.56)
21	1.478 (37.54)	1.689 (42.90)	1.952 (49.58)	1.375 (34.92)	1.625 (41.28)	1.250 (31.75)	1.500 (38.10)	0.242 (6.15)	0.242 (6.15)	0.154 (3.91)	0.154 (3.91)	1.1875-18	0.140 (3.56)
23	1.603 (40.72)	1.811 (46.00)	2.093 (53.16)	1.500 (38.10)	1.750 (44.45)	1.375 (34.92)	1.625 (41.28)	0.242 (6.15)	0.242 (6.15)	0.154 (3.91)	0.154 (3.91)	1.3125-18	0.140 (3.56)
25	1.728 (43.89)	1.952 (49.58)	2.234 (56.74)	1.625 (41.28)	1.875 (47.63)	1.500 (38.10)	1.750 (44.45)	0.242 (6.15)	0.242 (6.15)	0.154 (3.91)	0.154 (3.91)	1.4375-18	0.140 (3.56)

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



253-015 Crimp Receptacle, Float-Mount Series, Environmental MIL-STD-1560 power and signal insert arrangements

253-015-D0 PANEL-MOUNT RECEPTACLE, ROUND HOLES, DIMENSIONS



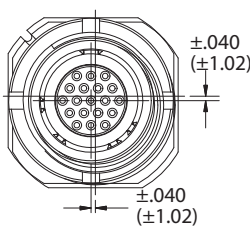
Shell Size	Diameter U, Max.	P +/- .012	P' +/- .012	R	R'	T +/- .008	Thread V, Class 2A	L +/- .011/- .010
11	0.853 (21.67)	1.126 (28.60)	1.311 (33.30)	0.906 (23.01)	1.062 (26.97)	0.128 (3.25)	0.5625-24	0.109 (2.77)
13	0.978 (24.84)	1.220 (30.99)	1.437 (36.50)	0.969 (24.61)	1.156 (29.36)	0.128 (3.25)	0.6875-24	0.109 (2.77)
15	1.103 (28.02)	1.311 (33.30)	1.563 (39.70)	1.062 (26.97)	1.250 (31.75)	0.128 (3.25)	0.8125-20	0.109 (2.77)
17	1.228 (31.19)	1.437 (36.50)	1.689 (42.90)	1.156 (29.36)	1.375 (34.92)	0.128 (3.25)	0.9375-20	0.109 (2.77)
19	1.353 (34.37)	1.563 (39.70)	1.811 (46.00)	1.250 (31.75)	1.500 (38.10)	0.128 (3.25)	1.0625-18	0.140 (3.56)
21	1.478 (37.54)	1.689 (42.90)	1.952 (49.58)	1.375 (34.92)	1.625 (41.28)	0.154 (3.91)	1.1875-18	0.140 (3.56)
23	1.603 (40.72)	1.811 (46.00)	2.093 (53.16)	1.500 (38.10)	1.750 (44.45)	0.154 (3.91)	1.3125-18	0.140 (3.56)
25	1.728 (43.89)	1.952 (49.58)	2.234 (56.74)	1.625 (41.28)	1.875 (47.63)	0.154 (3.91)	1.4375-18	0.140 (3.56)

RECOMMENDED PANEL CUTOUT FOR SLOTTED HOLE CONNECTORS

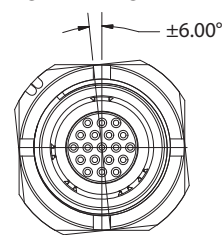
Shell Size	WW	WW'	Ø BB Min.	Ø BB' Min.
11	0.906	1.062	0.984	1.062
13	0.969	1.156	1.109	1.156
15	1.062	1.250	1.234	1.250
17	1.156	1.375	1.359	1.375
19	1.250	1.500	1.484	1.500
21	1.375	1.625	1.609	1.625
23	1.500	1.750	1.734	1.750
25	1.625	1.875	1.859	1.875

MISALIGNMENT CAPABILITIES

Axial Misalignment

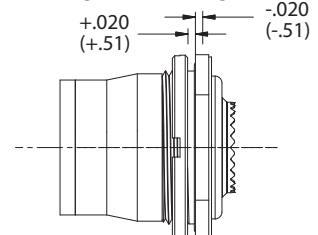


Angular Misalignment

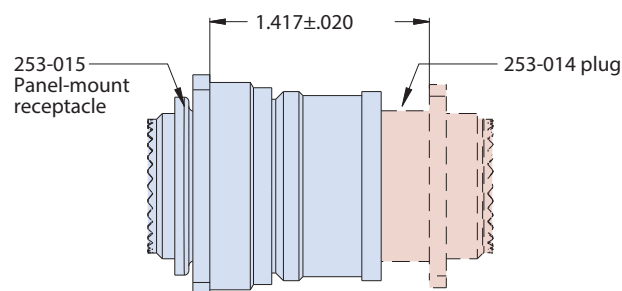


Reference Only (Not Deliverable)

Longitudinal Misalignment



253-015 00 AND D0 PANEL-MOUNT- 253-014 DISTANCE BETWEEN MATED FLANGES



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



253-015 Crimp Receptacle, Float-Mount Series, Environmental
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
STANDARD				26	17-26		11	23-99	48	8			25-4
Contact Type	#22D Contact Qty.	Shell Size - Contact Arr.		32	19-32	Size #12 Contacts 23 Amp Max. Current #12-14 AWG	#12 Contact Qty.	Shell Size - Contact Arr.	2			9	25-11
Size #22D 5 Amp Max. Current #22-#28 AWG	13	11-35		24	21-24					12	12		25-24
	22	13-35		25	21-25				23	20			25-43
	37	15-35		27	21-27								
	55	17-35		41	21-41								
	66	19-35		32	23-32								
	67	19-35		34	23-34								
	79	21-35		36	23-36								
	100	23-35		53	23-53								
	128	25-35		55	23-55								
				61	25-61								