

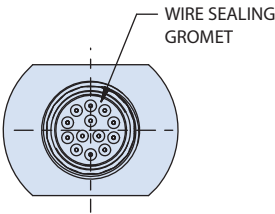
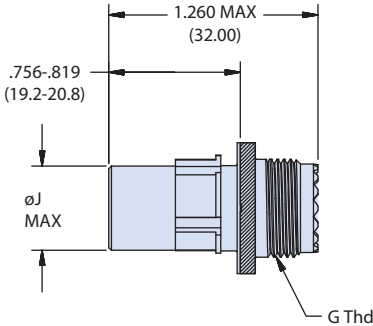
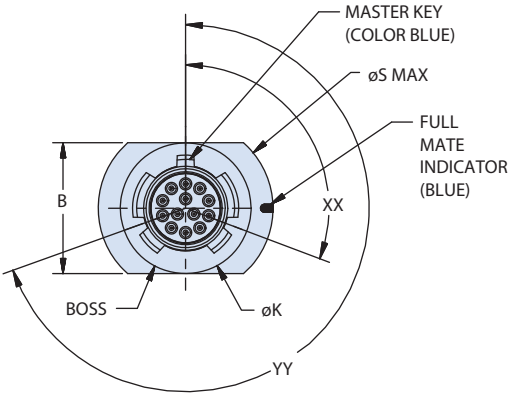
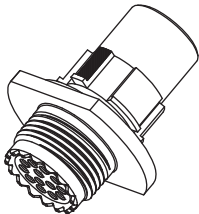
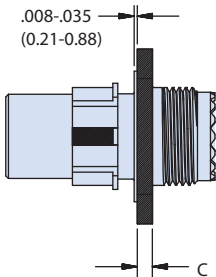
QPL QUALIFIED

MIL-DTL-38999 Series IV, Breech Coupling

38999/49 in-line receptacle with rear release crimp contacts



QPL Part Number Development						
Sample Part Number		D38999/49	W	J	35V	P N
MIL-DTL-38999	38999/49 = In-line receptacle					
Class	F = Environmental, aluminum, electroless nickel, conductive, -65°C to +200°C W = Environmental, aluminum, cadmium olive drab, conductive, -65°C to +175°C G = Environmental, aluminum, electroless nickel, conductive, -65°C to +200°C (space-grade)					
Shell Size	B, C, D, E, F, G, H, J					
Insert Arrangement	Per MIL-STD-1560; See reference information section for details					
Contact Style	P = Pin Insert A = Pin Gender, Less Contacts H = Pin, 1500 cycles S = Socket Insert B = Socket Gender, Less Contacts J = Socket, 1500 cycles					
Polarization	N (Normal), A, B, C, D, K, L, M, R ; see polarization positions table					



Polarization Position									
	N	A	B	C	D	K	L	M	R
XX	110°	100°	90°	80°	70°	120°	120°	120°	120°
YY	250°	260°	270°	280°	290°	255°	265°	275°	285°

COTS EQUIVALENT

MIL-DTL-38999 Series IV, Breech Coupling

234-105-49 in-line receptacle
with rear release crimp contacts

SERIES IV ENVIRONMENTAL

COTS Part Number Development						
Sample Part Number	234-105-49	NF	11	-35	P	N
Series / Basic Part No.	234-105-49 = Environmental, in-line receptacle					
Material/Finish	ME = Aluminum, electroless nickel, conductive, -65°C to +200°C NF = Aluminum, cadmium olive drab, conductive, -65°C to +175°C MA† = Aluminum, electroless nickel, conductive, -65°C to +200°C (space-grade)					
Shell Size	11, 13, 15, 17, 19, 21, 23, 25					
Insert Arrangement	Per MIL-STD-1560; See reference information section for details					
Contact Style	P = Pin Insert A = Pin Gender, Less Contacts H = Pin, 1500 cycles S = Socket Insert B = Socket Gender, Less Contacts J = Socket, 1500 cycles					
Polarization	N (Normal), A, B, C, D, K, L, M, R ; see polarization position position table					

† Connectors must be ordered with "MA" finish and modification code "-186T" to conform to the thermal vacuum outgassing requirements of Class G. Additional material/finish options are available, consult factory for ordering information.

Dimensions							
Shell Size	Shell Size Code	B (Flat)	C	G Thread 1.0-6g 0.100R	ØJ	ØK	ØS Max
11	B	.793 (20.15) .778 (19.76)	.102 (2.6) .083 (2.1)	M15	.509 (12.93)	.793 (20.15) .778 (19.76)	1.054 (26.78)
13	C	.919 (23.35) .904 (22.96)	.102 (2.6) .083 (2.1)	M18	.634 (16.10)	.919 (23.35) .904 (22.96)	1.226 (31.15)
15	D	1.044 (26.52) 1.029 (26.13)	.102 (2.6) .083 (2.1)	M22	.759 (19.28)	1.044 (26.52) 1.029 (26.13)	1.351 (34.32)
17	E	1.170 (29.72) 1.155 (29.33)	.102 (2.6) .083 (2.1)	M25	.885 (22.48)	1.170 (29.72) 1.155 (29.33)	1.476 (37.50)
19	F	1.294 (32.87) 1.279 (32.48)	.102 (2.6) .083 (2.1)	M28	1.009 (25.63)	1.294 (32.87) 1.279 (32.48)	1.586 (40.29)
21	G	1.419 (36.05) 1.404 (35.66)	.134 (3.4) .114 (2.9)	M31	1.134 (28.80)	1.419 (36.05) 1.404 (35.66)	1.711 (43.46)
23	H	1.544 (39.22) 1.529 (38.83)	.134 (3.4) .114 (2.9)	M34	1.259 (31.98)	1.544 (39.22) 1.529 (38.83)	1.836 (46.64)
25	J	1.669 (42.40) 1.654 (42.01)	.134 (3.4) .114 (2.9)	M37	1.384 (35.15)	1.669 (42.40) 1.654 (42.01)	1.964 (49.89)

Additional Material/Finish Options	
Finish Code	Description
TZ	Aluminum, tin zinc, green-gold
MN	Aluminum, mega nickel
ZR	Aluminum, zinc nickel, black (tri-valent cr)
MT	Aluminum, nickel PTFE
MA†	Aluminum, electroless nickel (space grade)
ZL†	Stainless steel, electro-deposited nickel
ZI†	Stainless steel, passivated

† Not firewall rated