

SuperNine® Environmental Series



MIL-DTL-38999 Series III Type

233-206 Crimp-contact connectors with banding porch / boot groove

ENVIRONMENTAL CONNECTORS

In-Line Receptacle Front View



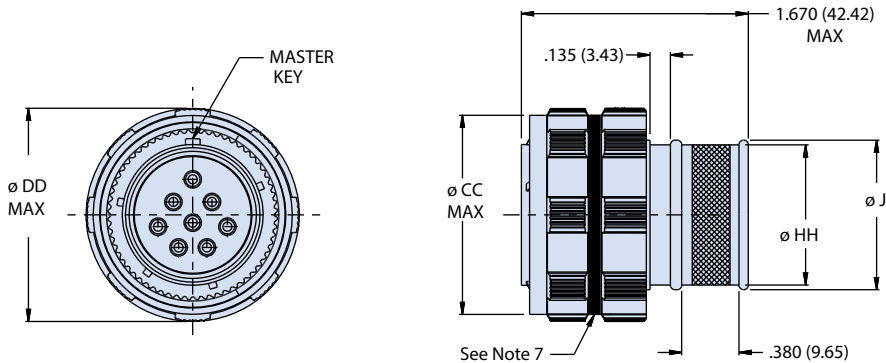
In-Line Receptacle Rear View



Part Number Development									
Sample Part Number	233-206				-G6	MT	17-8	P	N
Series / Basic Part No.	233-206 = SuperNine crimp contact wire harness connectors								
Connector Style*	G6 = Plug, with EMI spring 05 = Receptacle, In-Line 07 = Receptacle, Jam Nut 00 = Receptacle, Wall Mount with Slotted Holes CM = Receptacle, Wall Mount with Metric Clinch Nuts CS = Receptacle, Wall Mount with Standard Clinch Nuts HM = Receptacle, Wall Mount with Metric Helicoils HS = Receptacle, Wall Mount with Standard Helicoils								
Finish	NF = Aluminum alloy/Cadmium Olive Drab ME = Aluminum alloy/Electroless Nickel				MT = Aluminum alloy/Nickel PTFE ZR = Aluminum alloy/Black Zinc Nickel				
Shell Size-Insert Arrangement*	Per MIL-STD-1560								
Contact Type	P = Pin, Gold, 1500 cycles H = Pin, Pd/Ni, 1500 cycles A = Pin Insert, Less Pin Contacts				S = Socket, Gold, 1500 Cycles J = Socket, Pd/Ni, 1500 cycles B = Socket Insert, Less Socket Contacts				
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)								

*Refer to Section A for complete details

G6 - PLUG WITH BANDING PORCH AND BOOT GROOVE



Plug Dimensions			
Shell Size Code	Shell Size	Ø CC Max	Ø DD Max
A	09	.811 (20.60)	.858 (21.79)
B	11	.929 (23.60)	.984 (24.99)
C	13	1.110 (28.19)	1.157 (29.39)
D	15	1.232 (31.29)	1.280 (32.51)
E	17	1.358 (34.49)	1.406 (35.71)
F	19	1.469 (37.31)	1.516 (38.51)
G	21	1.594 (40.49)	1.642 (41.71)
H	23	1.720 (43.69)	1.768 (44.91)
J	25	1.843 (46.81)	1.890 (48.01)

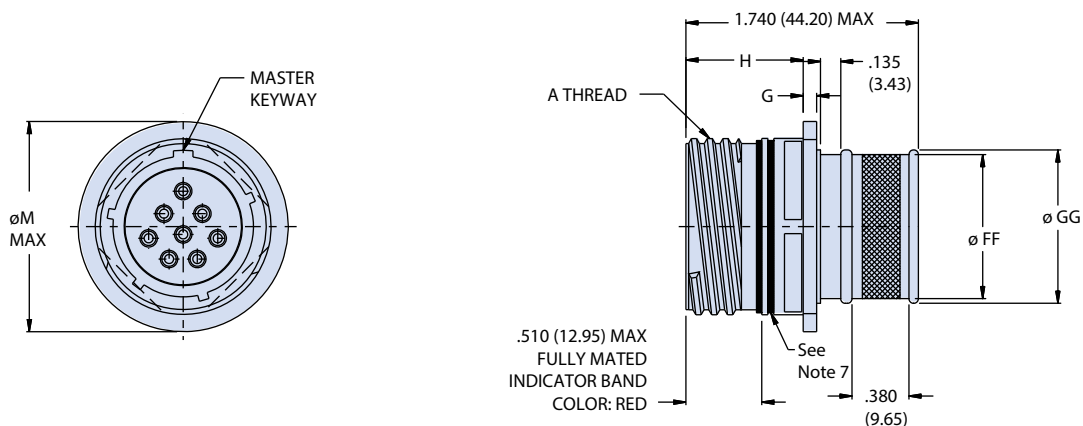
NOTES

- 233-206 is designed to meet or exceed the mechanical, electrical, environmental and dimensional requirements of D38999/20, /24 & /26. Except as shown and/or noted. Connectors mate with any QPL manufacturer's MIL-DTL-38999, Series III connectors having the same shell size, insert arrangement, and polarization
- 233-206 connectors are designed to withstand a minimum of 1500 mating durability cycles when mated to a SuperNine® mating connector and appropriate contacts. Contact finish should be the same for both mating connectors to optimize performance.
- Insert arrangements IAW MIL-STD-1560 arrangements. Contact manufacturer for additional arrangement options.
- Alternate polarization 'U' is a non-standard/non-mil-spec option, allows mating to any QPL manufacturers MIL-DTL-38999 connector, intended for use in testing facilities.
- Connector is supplied with contacts (including spares), insertion/removal tool and sealing plugs.
- Insertion/removal tool and sealing plugs supplied.
- Blue color band indicates rear release retention system.
- Front panel mount only
- Material/finish
 - Shell, barrel, coupling nut jam nut: see part number development table
 - Ratchet Ring, detent spring: stainless steel/passivated
 - Grounding spring: BeCu alloy/electroless nickel
 - Insulator: high grade rigid dielectric/N.A.
 - Seals, grommet: fluorosilicone blend/N.A.
 - Contacts: copper alloy/see part number development table

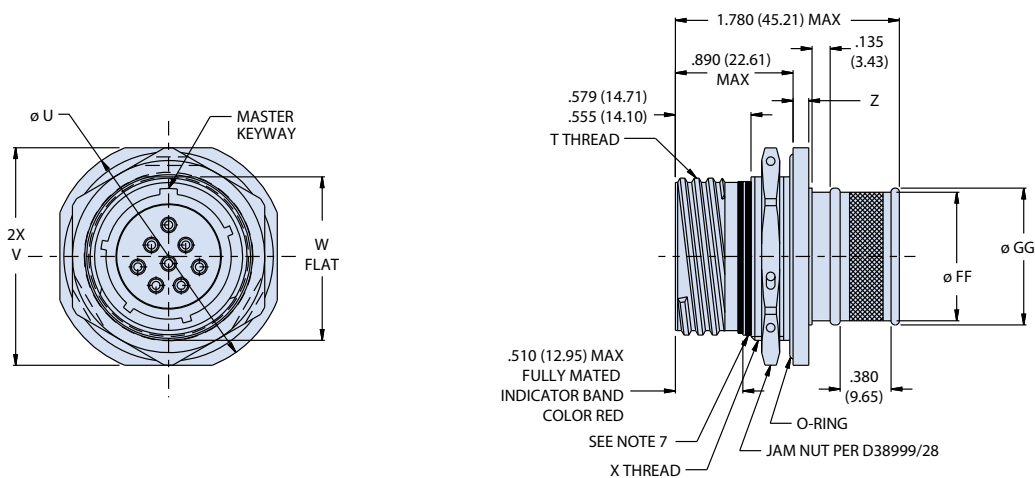
MIL-DTL-38999 Series III Type

233-206 Crimp-contact connectors with banding porch / boot groove

05 - IN-LINE RECEPTACLE WITH BANDING PORCH AND BOOT GROOVE



07 - JAM NUT RECEPTACLE WITH BANDING PORCH AND BOOT GROOVE



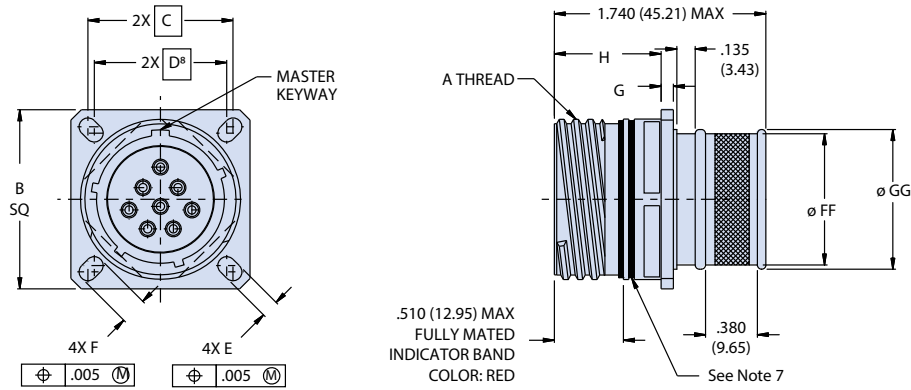
ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series III Type

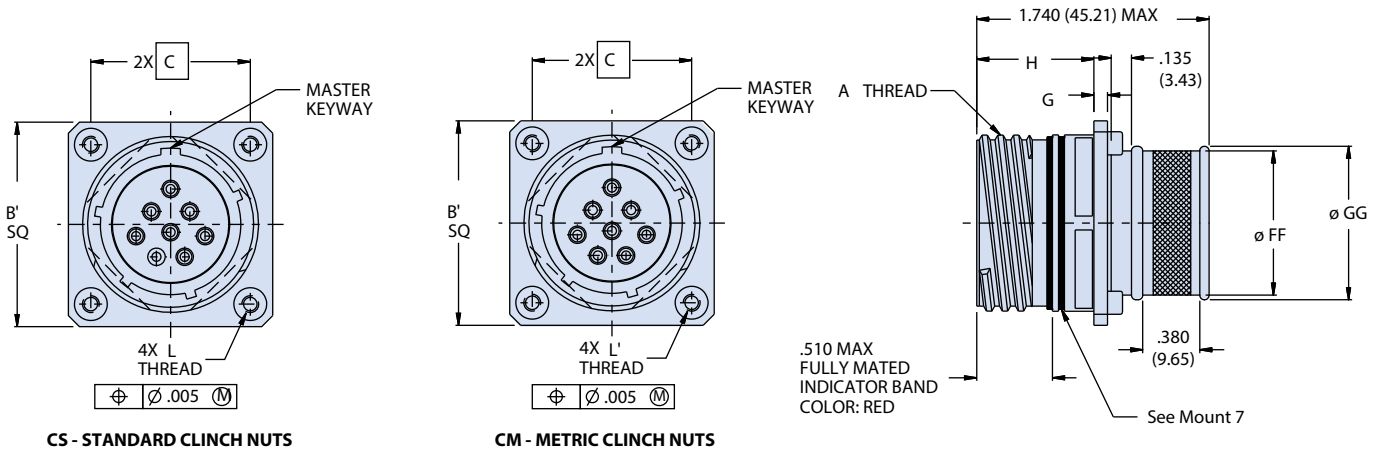
233-206 Crimp-contact connectors with banding porch / boot groove

ENVIRONMENTAL CONNECTORS

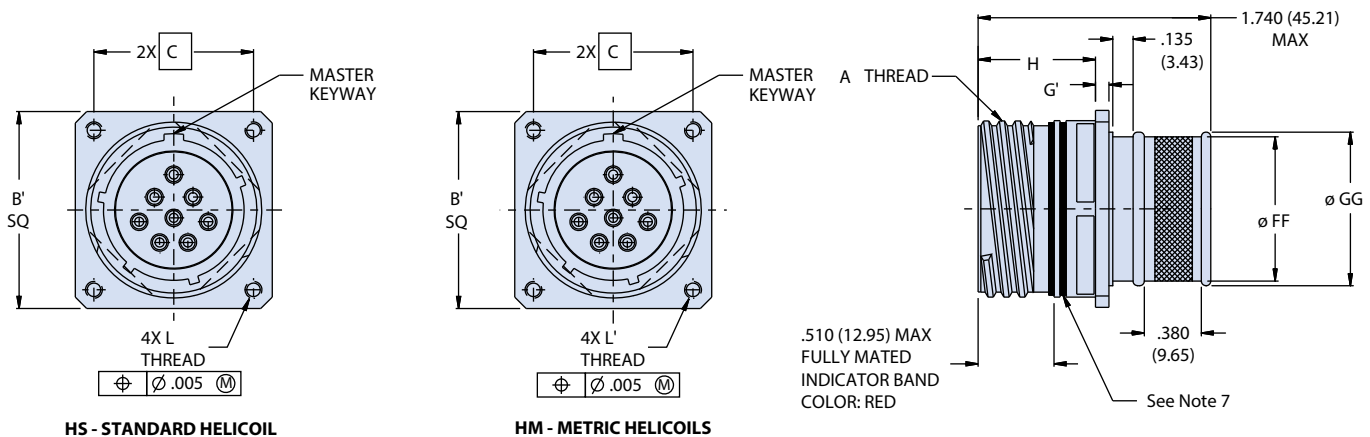
00 - SQUARE FLANGE RECEPTACLE WITH BANDING PORCH AND BOOT GROOVE



CS AND CM - WALL MOUNT RECEPTACLE WITH BANDING PORCH AND BOOT GROOVE



HS AND HM - WALL MOUNT RECEPTACLE WITH BANDING PORCH AND BOOT GROOVE



MIL-DTL-38999 Series III Type

233-206 crimp-contact connectors with banding porch / boot groove

ENVIRONMENTAL CONNECTORS

Wall Mount and In-Line Dimensions																			
Shell Size Code	Shell Size	A Thread	B Sq	B' Sq	C Bsc	D Bsc ⁹	E	F	G	G'	H	L Thd	L' Thd	Ø M Max					
A	09	.6250-1P-3L-TS-2A	.949 (24.10) .925 (23.50)	1.094 (27.79) 1.054 (26.77)	.719 (18.26)	.594 (15.09)	.136 (3.45) (3.05)	.224 (5.69) .208 (5.28)	.098 (2.49) .083 (2.11)	.179 (4.55) .140 (3.56)	.820 (20.83) .771 (19.58)	.112-40 UNC-2B	M3X0.5	.875 (22.23)					
B	11	.7500-1P-3L-TS-2A	1.043 (26.49) 1.019 (25.88)	1.187 (30.15) 1.147 (29.13)	.812 (20.62)	.719 (18.26)		.202 (5.13)						.994 (25.25)					
C	13	.8750-1P-3L-TS-2A	1.138 (28.91) 1.114 (28.30)	1.281 (32.54) 1.241 (31.52)	.906 (23.01)	.812 (20.62)		.186 (4.72)						1.167 (29.64)					
D	15	1.0000-1P-3L-TS-2A	1.232 (31.29) 1.208 (30.68)	1.344 (34.14) 1.304 (33.12)	.969 (24.61)	.906 (23.01)		.181 (4.60) .165 (4.19)						1.290 (32.77)					
E	17	1.1875-1P-3L-TS-2A	1.323 (33.60) 1.299 (32.99)	1.437 (36.50) 1.397 (35.48)	1.062 (26.97)	.969 (24.61)		.202 (5.13) .186 (4.72)						1.416 (35.97)					
F	19	1.2500-1P-3L-TS-2A	1.449 (36.80) 1.425 (36.20)	1.531 (38.89) 1.491 (37.87)	1.156 (29.36)	1.062 (26.97)								1.526 (38.76)					
G	21	1.3750-1P-3L-TS-2A	1.575 (40.00) 1.551 (39.40)	1.625 (41.28) 1.585 (40.26)	1.250 (31.75)	1.156 (29.36)		.126 (3.20) .083 (2.11)						.190 (4.83) .170 (4.32)	.790 (20.07) .741 (18.82)	.138-32 UNC-2B	M4X0.7	1.652 (41.96)	
H	23	1.5000-1P-3L-TS-2A	1.701 (43.21) 1.677 (42.60)	1.750 (44.45) 1.710 (43.43)	1.375 (34.92)	1.250 (31.75)								.162 (4.11) .146 (3.71)	.250 (6.35) .234 (5.94)			1.778 (45.16)	
J	25	1.6250-1P-3L-TS-2A	1.823 (46.30) 1.799 (45.69)	1.875 (47.63) 1.835 (46.61)	1.500 (38.10)	1.375 (34.92)													1.900 (48.26)

Jam Nut Dimensions							
Shell Size Code	Shell Size	T Thread	Ø U	V	W Flat	X Thread	Z
A	09	.6250-1P-3L-TS-2A	1.200 (30.48) 1.178 (29.92)	1.078 (27.38) 1.048 (26.62)	0.654 (16.61) 0.645 (16.38)	M17 X 1.0-6g 0.100R	0.122 (3.10) 0.083 (2.11)
B	11	.7500-1P-3L-TS-2A	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	0.755 (19.18) 0.745 (18.92)	M20 X 1.0-6g 0.100R	
C	13	.8750-1P-3L-TS-2A	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	0.942 (23.93) 0.932 (23.67)	M25 X 1.0-6g 0.100R	
D	15	1.0000-1P-3L-TS-2A	1.638 (41.61) 1.614 (41.00)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	M28 X 1.0-6g 0.100R	
E	17	1.1875-1P-3L-TS-2A	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 (30.25) 1.181 (30.00)	M32 X 1.0-6g 0.100R*	
F	19	1.2500-1P-3L-TS-2A	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35 X 1.0-6g 0.100R	
G	21	1.3750-1P-3L-TS-2A	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38 X 1.0-6g 0.100R	
H	23	1.5000-1P-3L-TS-2A	2.201 (55.91) 2.177 (55.30)	2.079 (52.81) 2.047 (51.99)	1.566 (39.78) 1.556 (39.52)	M41 X 1.0-6g 0.100R	
J	25	1.6250-1P-3L-TS-2A	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44 X 1.0-6g 0.100R	

Integral Backshell Dimensions*					
Shell Size Code	Shell Size	Ø FF	Ø GG	Ø HH	Ø JJ
A	09	.475 (12.07)	.538 (13.67)	.420 (10.67)	.465 (11.81)
B	11	.600 (15.24)	.662 (16.81)	.550 (13.97)	.595 (15.11)
C	13	.700 (17.78)	.762 (19.35)	.670 (17.02)	.715 (18.16)
D	15	.835 (21.21)	.898 (22.81)	.815 (20.70)	.860 (21.84)
E	17	.960 (24.38)	1.022 (25.96)	.945 (24.00)	.990 (25.15)
F	19	1.062 (26.97)	1.125 (28.58)	1.050 (26.67)	1.100 (27.94)
G	21	1.188 (30.18)	1.250 (31.75)	1.170 (29.72)	1.220 (30.99)
H	23	1.275 (32.39)	1.338 (33.99)	1.290 (32.77)	1.340 (34.04)
J	25	1.475 (37.47)	1.538 (39.07)	1.400 (35.56)	1.450 (36.83)

* Modified major diameter 31.95 - 31.80 (1.257 - 1.252)

See accessories section for bands and banding tools