

MIL-DTL-38999 Series I Type 231-207 Wall-mount receptacles, flush flange

"BETTER THAN QPL" FEATURES AND BENEFITS

- Improved, positive-lock, 3-point stainless-steel pin bayonet coupling with outstanding vibration and shock resistance
- Plug ground fingers for advanced EMC
- Glenair Signature tin zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Expanded receptacle styles include Clinch-nut and Helicoil mounting, and In-Line configurations
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500+ mating cycles exceeds MIL-DTL-38999 specification

POWER SPECIFICATIONS

- Max operating temperature is 200°C finish dependent
- Meets Mil-Spec service rating, insert dependent

HOW TO ORDER							
Sample Part Number	231-207	-CM	NF	23	-99	P	N
Basic Part Number	231-207						
Connector Style	(See Table II)						
Material/Finish	NF, MA, MT, ME, ZR, Z1, ZL, AB (See Table I)						
Connector Size	9, 11, 13, 15, 17, 19, 21, 23, 25						
Insert Arrangement	PER MIL-STD-1560						
Contact Style	(See Table II)						
Alternate Polarization	A, B, C, D, N = Normal, U = Universal						

TABLE II - MOUNTING HOLES				
Shell Size Code	Shell Size	ØN Min	ØR Holes	V Bsc
A	9	0.656 (16.66)		0.719 (18.26)
B	11	0.796 (20.22)		0.812 (20.62)
C	13	0.922 (23.42)		0.906 (23.01)
D	15	1.047 (26.59)	.133 (3.38) .123 (3.12)	0.969 (24.61)
E	17	1.219 (30.96)		1.062 (26.97)
F	19	1.297 (32.94)		1.156 (29.36)
G	21	1.422 (36.12)		1.250 (31.75)
H	23	1.547 (39.29)	.159 (4.04) .149 (3.78)	1.375 (34.93)
J	25	1.672 (42.47)	.155 (3.94) .145 (3.68)	1.500 (38.10)

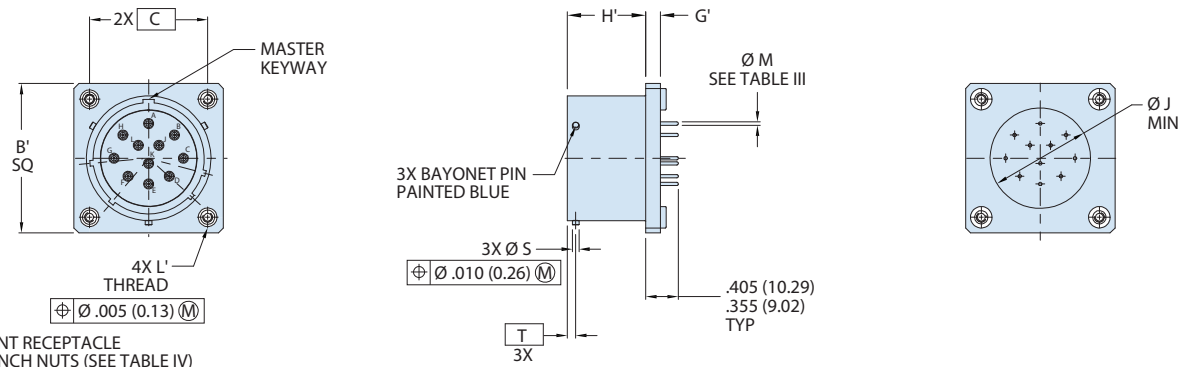
TABLE III	
Contact Size	PC Tail ØM
No 23	.020 (0.51) .018 (0.46)
No 22	.020 (0.51) .018 (0.46)
No 20	.030 (0.76) .028 (0.71)
No 16	.040 (1.02) .038 (0.97)
No 12	.072 (1.83) .070 (1.78)

TABLE V - MATERIAL/FINISH		
Sym	Material	Finish
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel
MA		Electroless Nickel, Matte
ME		Electroless Nickel
MN		Tri-Nickel Alloy
MT		Nickel-PTFE
TZ		Tin Zinc Over Electroless Nickel
ZR		Zinc Ni, Black (Tri-Valent CR)
Z1	Stainless Steel (SST)	Passivate
ZL		Electrodeposited Nickel
AB	Marine Bronze (MB)	None (Clean Only)

TABLE IV - CONNECTOR STYLE	
SYM	Description
CM	Receptacle, Wall-mount With Metric Clinch-nuts
CS	Receptacle, Wall-mount With Standard Clinch-nuts
DO	Receptacle, Wall-mount With Thru Holes
HM	Receptacle, Wall-mount With Metric Helicoils
HS	Receptacle, Wall-mount With Standard Helicoils
TO	Receptacle, Wall-mount With Std Tapped Holes (MAT; SST & MB)
T1	Receptacle, Wall-mount With Mtc Tapped Holes (MAT; SST & MB)

MIL-DTL-38999 Series I Type
 231-207 Wall-mount receptacles, flush flange

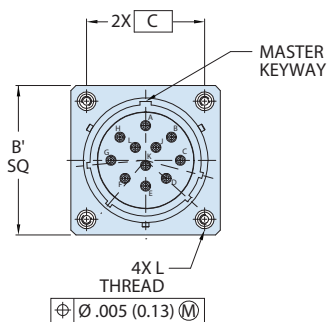
TABLE I - DIMENSIONS - CM WALL-MOUNT RECEPTACLE



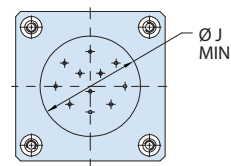
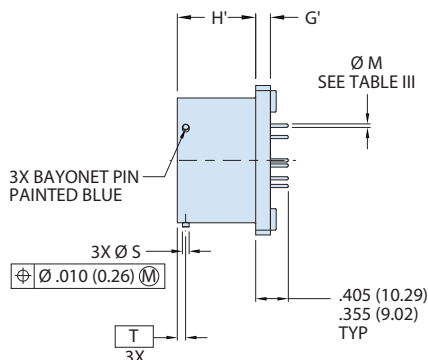
Shell Size Code	Shell Size	B Sq	B' Sq 8	C Bsc	G	G'	H	H'	$\varnothing \text{ J Min}$	$\varnothing \text{ K}$	L Thread	L' Thread	$\varnothing \text{ S}$	T Bsc
A	9	0.948 (24.08) 0.925 (23.50)	1.043 (26.49) 1.003 (25.48)	0.719 (18.26)	.103 (2.62) .077 (1.96)	.153 (3.89) .127 (3.23)	.952 (24.18) .928 (23.57)	.927 (23.55) .903 (22.94)	0.340 (8.64)	.136 (3.45) .120 (3.05)	.112-40 UNC	M3X0.5	.084 (2.13) .076 (1.93)	0.100 (2.54)
B	11	1.043 (26.49) 1.019 (25.88)	1.136 (28.85) 1.096 (27.84)	0.812 (20.62)					0.468 (11.89)					
C	13	1.137 (28.88) 1.114 (28.30)	1.230 (31.24) 1.190 (30.23)	0.906 (23.01)					0.572 (14.53)					
D	15	1.232 (31.29) 1.208 (30.68)	1.293 (32.84) 1.253 (31.83)	0.969 (24.61)					0.705 (17.91)					
E	17	1.323 (33.60) 1.299 (32.99)	1.386 (35.20) 1.346 (34.19)	1.062 (26.97)					0.830 (21.08)					
F	19	1.449 (36.80) 1.425 (36.20)	1.480 (37.59) 1.440 (36.58)	1.156 (29.36)					0.934 (23.72)					
G	21	1.575 (40.01) 1.551 (39.40)	1.574 (39.98) 1.534 (38.96)	1.250 (31.75)	.133 (3.38) .107 (2.72)	.183 (4.65) .157 (3.99)			1.055 (26.80)	.162 (4.11) .146 (3.71)	.138-32 UNC	M4X0.7	.131 (3.33) .123 (3.12)	0.109 (2.77)
H	23	1.701 (43.21) 1.677 (42.60)	1.759 (44.68) 1.719 (43.66)	1.375 (34.93)					1.160 (29.46)					
J	25	1.823 (46.30) 1.799 (45.69)	1.884 (47.85) 1.844 (46.84)	1.500 (38.10)					1.307 (33.20)					

MIL-DTL-38999 Series I Type
 231-207 Wall-mount receptacles, flush flange

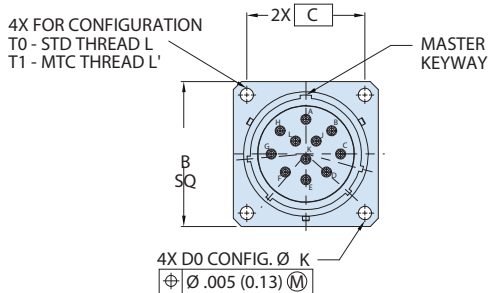
CS WALL-MOUNT RECEPTACLE



CS - WALL MOUNT RECEPTACLE
 WITH STANDARD CLINCH NUTS (SEE TABLE IV)



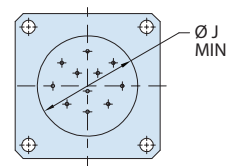
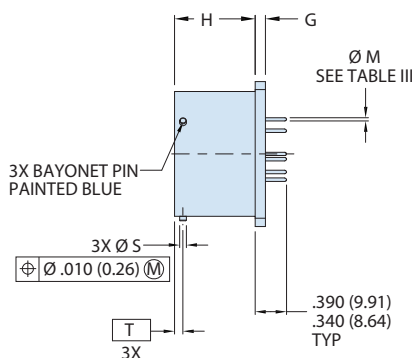
D0 WALL-MOUNT RECEPTACLE



D0 - WALL MOUNT RECEPTACLE
 WITH THRU HOLES (SEE TABLE IV)

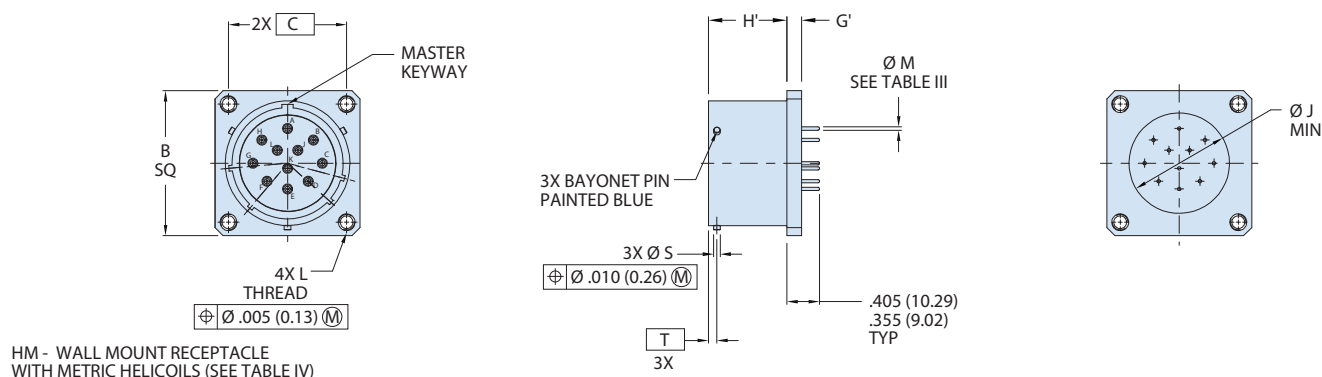
OR

T0 - WALL MOUNT RECEPTACLE WITH STD TAPPED HOLES
 T1 - WALL MOUNT RECEPTACLE WITH MTC TAPPED HOLES
 (MAT; STAINLESS STEEL AND MARINE BRONZE)
 (SEE TABLE IV)

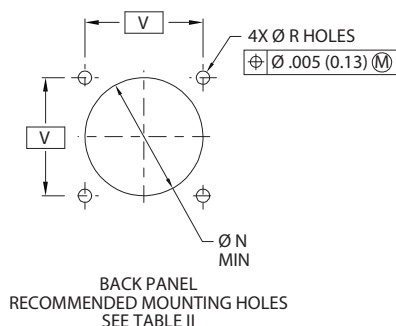
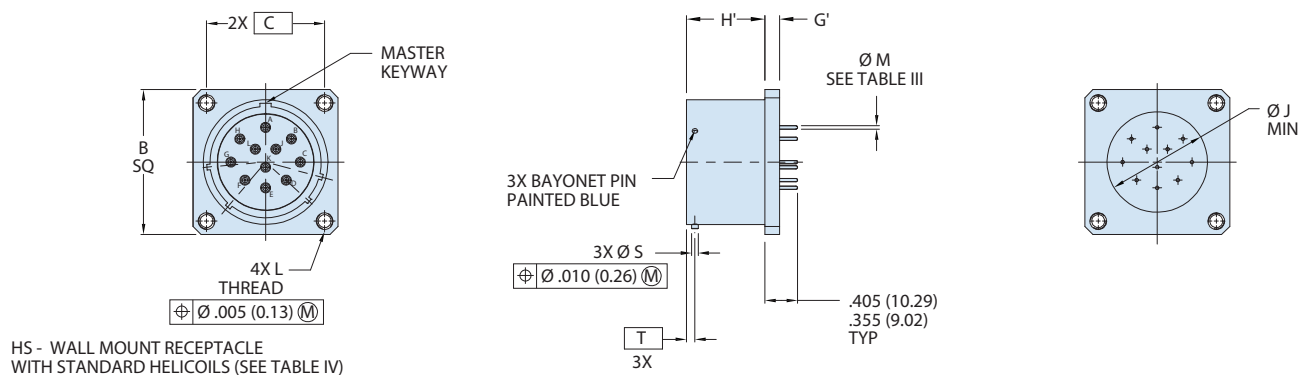


MIL-DTL-38999 Series I Type
 231-207 Wall-mount receptacles, flush flange

CS WALL-MOUNT RECEPTACLE



DO WALL-MOUNT RECEPTACLE



MIL-DTL-38999 Series I Type
231-207-07 Jam-nut mount receptacle, flush flange

ENVIRONMENTAL CONNECTORS



**“BETTER THAN QPL”
FEATURES AND BENEFITS**

- Improved, positive-lock, 3-point stainless-steel pin bayonet coupling with outstanding vibration and shock resistance
- Plug ground fingers for advanced EMC
- Glenair Signature tin zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Expanded receptacle styles include Clinch-nut and Helicoil mounting, and In-Line configurations
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500+ mating cycles exceeds MIL-DTL-38999 specification

HOW TO ORDER							
Sample Part Number	231-207	-07	NF	17	-8	P	N
Basic Part Number	231-207-07						
Connector Style	(See Table II)						
Material/Finish	NF, MA, MT, ME, ZR, Z1, ZL, AB (See Table I)						
Connector Size	9, 11, 13, 15, 17, 19, 21, 23, 25						
Insert Arrangement	PER MIL-STD-1560						
Contact Style	P = Pin, PC Tail S = Socket, PC Tail						
Alternate Polarization	A, B, C, D, N = Normal						

TABLE III - PANEL-MOUNT

Size Code	Shell Size	ØAA	BB Flat
A	9	0.703 (17.86) 0.693 (17.60)	0.661 (16.79) 0.654 (16.61)
B	11	0.835 (21.21) 0.825 (20.96)	0.771 (19.58) 0.761 (19.33)
C	13	1.020 (25.91) 1.010 (25.65)	0.955 (24.26) 0.945 (24.00)
D	15	1.145 (29.08) 1.135 (28.83)	1.085 (27.56) 1.075 (27.31)
E	17	1.270 (32.26) 1.260 (32.00)	1.210 (30.73) 1.200 (30.48)
F	19	1.395 (35.43) 1.385 (35.18)	1.335 (33.91) 1.325 (33.66)
G	21	1.520 (38.61) 1.510 (38.35)	1.460 (37.08) 1.450 (36.83)
H	23	1.645 (41.78) 1.635 (41.53)	1.585 (40.26) 1.575 (40.01)
J	25	1.770 (44.96) 1.760 (44.70)	1.710 (43.43) 1.700 (43.18)

POWER SPECIFICATIONS

- Max operating temperature is 200°C finish dependent
- Meets Mil-Spec service rating, insert dependent

TABLE I - MATERIAL/FINISH

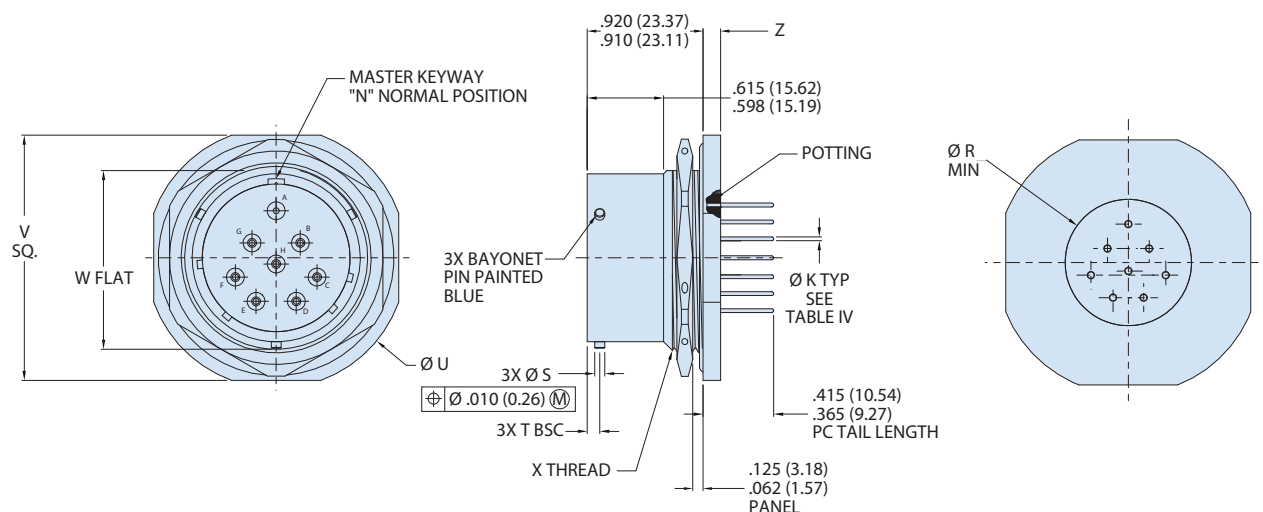
Sym	Material	Finish
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel
MA		Electroless Nickel, Matte
ME		Electroless Nickel
MN		Tri-Nickel Alloy
MT		Nickel-PTFE
TZ		Tin Zinc Over Electroless Nickel
ZR	Stainless Steel (SST)	Zinc Ni, Black (Tri-Valent CR)
Z1		Passivate
ZL		Electrodeposited Nickel
AB	Marine Bronze (MB)	None (Clean Only)

TABLE IV

Contact Size	PC Tail ØK
No 23	.020 (0.51) .018 (0.46)
No 22	.020 (0.51) .018 (0.46)
No 20	.030 (0.76) .028 (0.71)
No 16	.040 (1.02) .038 (0.97)
No 12	.072 (1.83) .070 (1.78)

MIL-DTL-38999 Series I Type
 231-207-07 Jam-nut mount receptacle, flush flange

TABLE II - JAM-NUT MOUNT



Size Code	Shell Size	ØR Min	ØS	T Bsc	ØU	V Sq.	W Flat	X Thread	Z
A	9	0.340 (8.64)	0.084 (2.13) 0.076 (1.93)	0.100 (2.54)	1.204 (30.58) 1.172 (29.77)	1.078 (27.38) 1.046 (26.57)	.655 (16.64) .645 (16.38)	.6875-24 UNEF-2A	.120 (3.05) .099 (2.51)
B	11	0.468 (11.89)			1.391 (35.33) 1.359 (34.52)	1.266 (32.16) 1.234 (31.34)	.755 (19.18) .745 (18.92)	.8125-20 UNEF-2A	
C	13	0.572 (14.53)			1.516 (38.51) 1.484 (37.69)	1.391 (35.33) 1.359 (34.52)	.942 (23.93) .932 (23.67)	1.0000-20 UNEF-2A	
D	15	0.705 (17.91)			1.641 (41.68) 1.609 (40.87)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	1.1250-18 UNEF-2A	
E	17	0.830 (21.08)			1.766 (44.86) 1.734 (44.04)	1.641 (41.68) 1.609 (40.87)	1.191 (30.25) 1.181 (30.00)	1.2500-18 UNEF-2A	
F	19	0.934 (23.72)			1.954 (49.63) 1.922 (48.82)	1.828 (46.43) 1.796 (45.62)	1.316 (33.43) 1.306 (33.17)	1.3750-18 UNEF-2A	.151 (3.84) .130 (3.30)
G	21	1.055 (26.80)			2.078 (52.78) 2.046 (51.97)	1.954 (49.63) 1.922 (48.82)	1.441 (36.60) 1.431 (36.35)	1.5000-18 UNEF-2A	
H	23	1.160 (29.46)			2.204 (55.98) 2.172 (55.17)	2.078 (52.78) 2.046 (51.97)	1.566 (39.78) 1.556 (39.52)	1.6250-18 UNEF-2A	
J	25	1.307 (33.20)	.131 (3.33) .123 (3.12)	0.109 (2.77)	2.328 (59.13) 2.296 (58.32)	2.204 (55.98) 2.172 (55.17)	1.691 (42.95) 1.681 (42.70)	1.7500-18 UNEF-2A	