

MIL-DTL-38999 Series IV Type
234-212 Panel mount feed-thru receptacles with PC tails



"BETTER-THAN-QPL" FEATURES AND BENEFITS

- Secure breach-lock mating connector meets D38999 shock and vibrate
- Glenair Signature Tin Zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- 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	234-212 -D0 NF 11 -35 P N -01
Basic Part Number	234-212
Connector Style	D0 = Receptacle, wall-mount through holes HM = Receptacle, wall-mount w/metric helicoil HS = Receptacle, wall-mount w/standard helicoil CM = Receptacle, wall-mount w/metric clinch nut CS = Receptacle, wall-mount w/standard clinch nut
Material/Finish	(See Table II)
Shell Size	11, 13, 15, 17, 19, 21, 23, 25
Insert Arrangement	PER MIL-STD-1560
Insert Designator	P = Pin Contact, Gold, Socket on opposite side, 1500 Cycles S = Socket Contact Gold, Socket on opposite side, 1500 Cycles
Alternate Polarization	A, B, C, D, E, N = Normal, U = Universal (Glenair Equivalent Only)
Panel Accomodation	(See Table V)

TABLE I - MATERIAL/FINISH			
Equip Class	Sym	Material	Finish
W	NF	Aluminum Alloy	Cad/O.D. over Electroless Nickel
G*	MA**		Electroless Nickel, Matte
T*	MT		Nickel-PTFE
F	ME		Electroless Nickel
AA	MN		MegaNickel
V	TZ		Tin-Zinc
Z*	ZR		Zinc Ni, Black (Tri-Valent CR)
K*	Z1	Stainless Steel	Passivate
L*	ZL		Electrodeposited Nickel

* = Glenair Equivalent Only

** = Connectors for space applications must be ordered with "MA" finish and mod code "-186T" to conform to the thermal vacuum outgassing requirements of class G.

TABLE VII - POLARIZING POSITIONS										
	N	A	B	C	D	K	L	M	R	U
X	110°	100°	90°	80°	70°	120°	120°	120°	120°	N/A
Y	250°	260°	270°	280°	290°	255°	265°	275°	285°	N/A

ENVIRONMENTAL CONNECTORS

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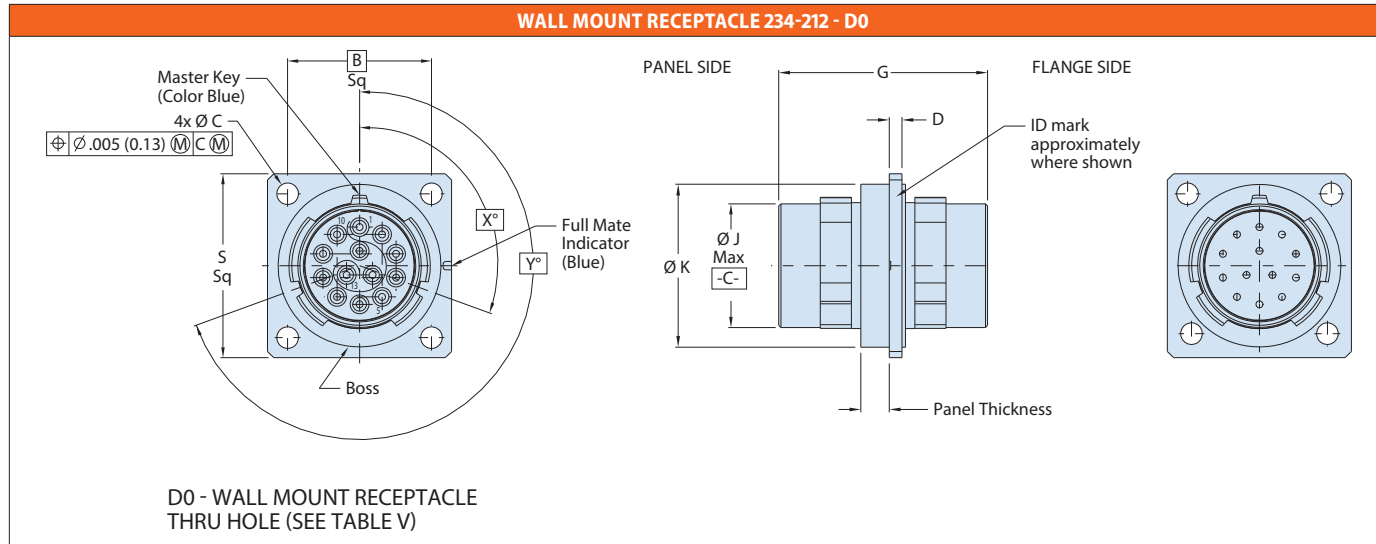


TABLE VI - PANEL CUTOUT

Shell Size	Shell Size Code	ØKK Min	BB Bsc	ØDD
11	B	0.796 (20.22)	0.812 (20.62)	.133 (3.38) / .123 (3.12)
13	C	0.922 (23.42)	0.906 (23.01)	
15	D	1.047 (26.59)	0.969 (24.61)	
17	E	1.219 (30.96)	1.062 (26.97)	
19	F	1.297 (32.94)	1.156 (29.36)	
21	G	1.422 (36.12)	1.250 (31.75)	.159 (4.04) / .149 (3.78)
23	H	1.547 (39.29)	1.375 (34.93)	
25	J	1.672 (42.47)	1.500 (38.10)	
				.155 (3.94) / .145 (3.68)

The diagram shows the recommended panel cutout for the wall mount receptacle. It includes the following dimensions and features:

- BB**: Shell width.
- ØKK**: Minimum contact diameter.
- 4X ØDD**: Four contact diameters.
- A-**: Surface texture specification.
- Ø .005 (0.13) (M) A (M)**: Surface texture specification for the panel cutout.

Wall Mount Receptacle Recommended Panel Cutout

NOTES

- Material/Finish:
 - Shell - See Table Ii
 - Contacts - Copper Alloy / Gold Plated
 - Insulators - High-Grade Rigid Dielectric.
 - Seals - Fluorosilicone Blend.
- Glenair's 234-212 feedthru connector is designed to meet or exceed the mechanical, dimensional, electrical and environmental requirements of MIL-DTL-38999, and MIL-STD-1560 except as shown and/or noted. Glenair feedthru mates with any QPL manufacturer's MIL-DTL-38999, Series IV plug connector, D38999/46, having the same shell size, insert arrangement, and polarization.
- Insert arrangement is in accordance with MIL-STD-1560. Contact manufacturer for additional arrangement options.
- Insert arrangement is shown for reference only. Pin interface show
- Pin or socket on panel side will result opposite on the other side of connectors.
- Power to a given contact on one end will result in power to a contact directly opposite, regardless of identification letter.
- Electrical safety limits must be established by user. Peak voltage, switching surge, transient, etc. Should be used to determine the safety application.
- Alternate polarization 'U' (Universal) is a non-standard/non-mil-spec option which allows for mating to any QPL manufacturer's MIL-DTL-38999, Series IV connector having the same shell size, insert arrangement, and mating contact size. Universal connectors are intended for use in testing facilities only and should be highly evaluated before consideration in another environment
- Front panel mount only.

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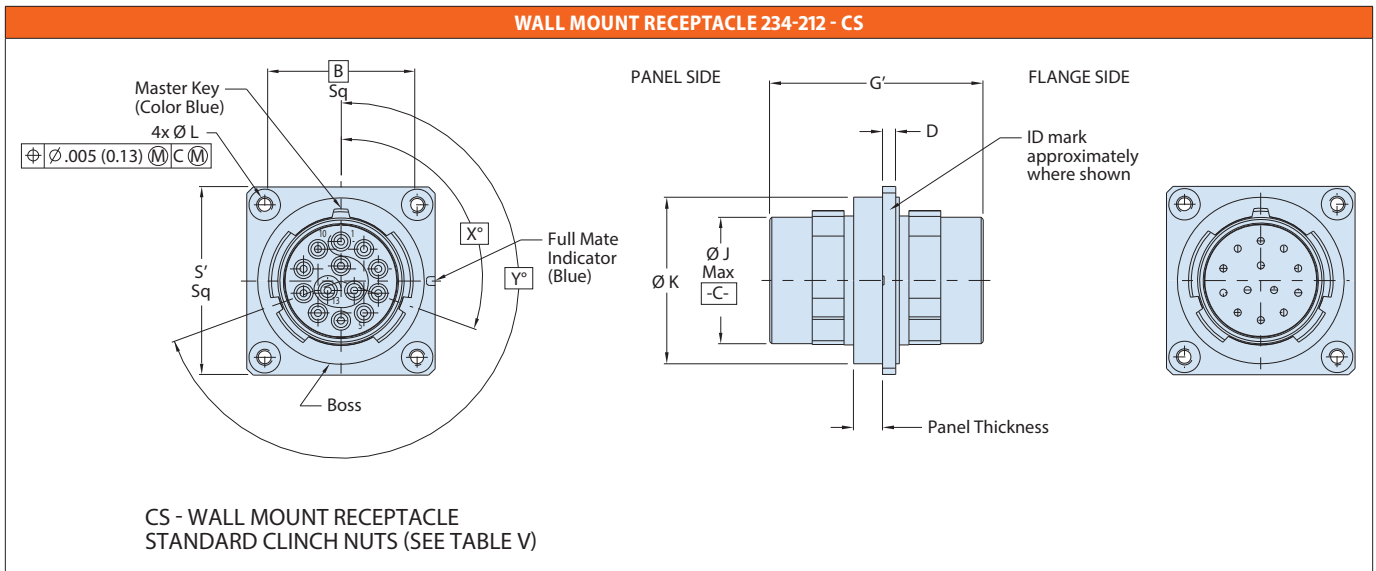
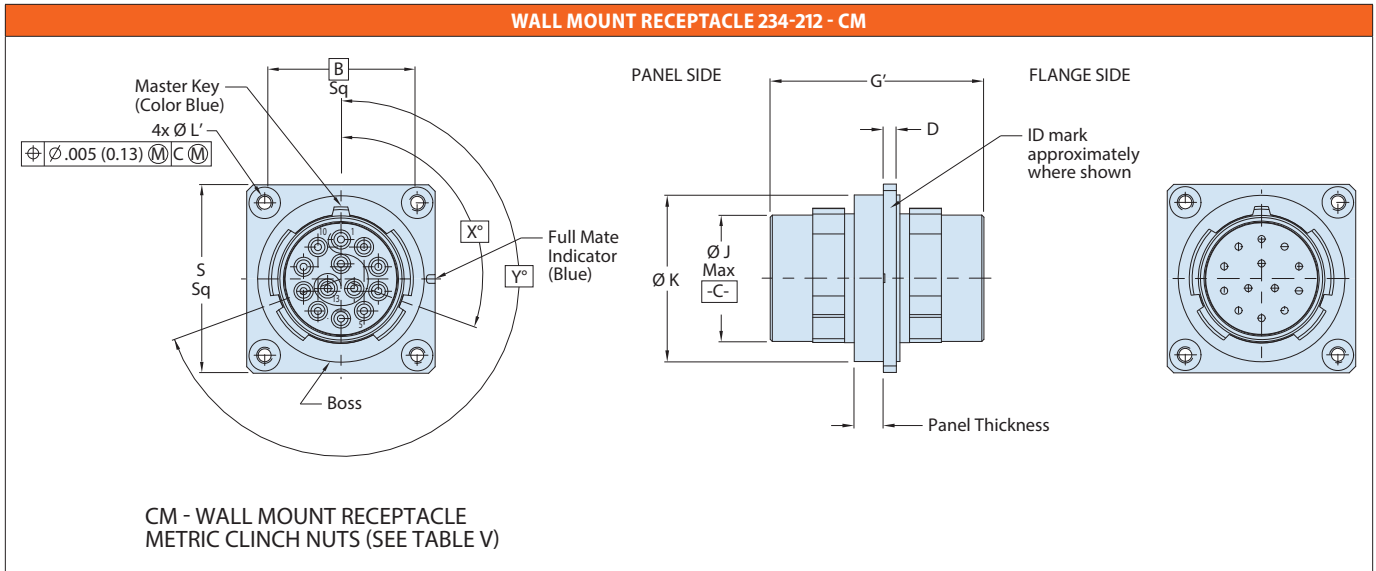


TABLE V - PANEL ACCOMMODATION/OVERALL LENGTH			
Sym	Panel Thickness	G ± .020	G' ± .020
01	.175 (4.45)	1.840 (46.74)	1.902 (48.31)
	.062 (1.57)		
02	.300 (7.62)	1.966 (49.94)	2.028 (51.51)
	.062 (1.57)		
03	.500 (12.70)	2.166 (55.02)	2.228 (56.59)
	.062 (1.57)		

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