

MIL-DTL-38999 Series I Type

250-101 Plug and receptacle connector, shorting

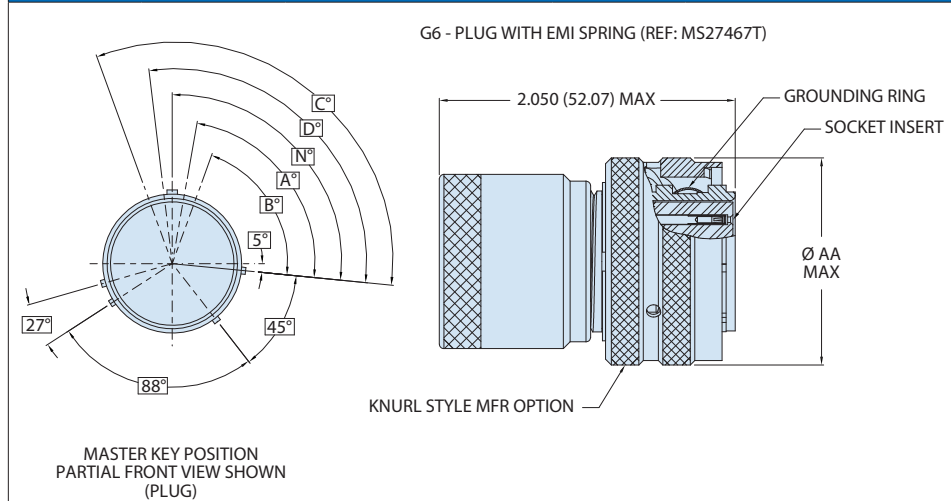
ENVIRONMENTAL CONNECTORS

“BETER THAN QPL” FEATURES AND BENEFITS

- Improved, positive-lock, 3-point stainless-steel pin bayonet coupling with outstanding vibration and shock resistance
- Integral banding porch eliminates need for add-on accessories
- Improved plug ground fingers deliver outstanding EMI performance—equal to D38999 Series III
- Glenair Signature tin zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Nine shell sizes and eight receptacle styles
- 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	250-101	G6	NF	17	-35	P	N
Basic Part Number	250-101						
Connector Style	G6 = Plug Connector D0 = Wall Mount Thru Hole 07 = Receptacle, Jam Nut						
Material/Finish	NF, MA, MT, ME, ZR (See Table I)						
Shell Size	9, 11, 13, 15, 17, 19, 21, 23, 25						
Insert Arrangement	PER MIL-STD-1560						
Contact Style	P = Pin Contacts S = Socket Contacts						
Alternate Polarization	N = Normal, A, B, C, D, K, L, M, R U = Universal						

TABLE II - PLUG

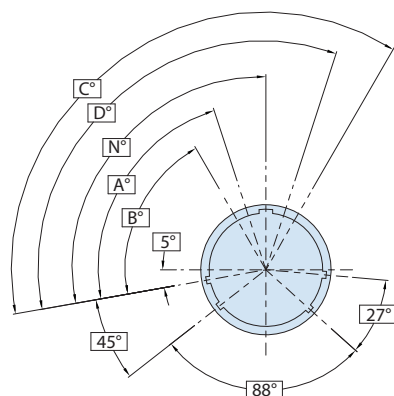


Shell Size	ØAA Max	Alternate Keyway Positions				
		N°	A°	B°	C°	D°
9	0.859	95°	77°	-	-	113°
11	0.984	95°	81°	67°	123°	109°
13	1.156	95°	75°	63°	127°	115°
15	1.281	95°	74°	61°	129°	116°
17	1.406	95°	77°	65°	125°	113°
19	1.516	95°	77°	65°	125°	113°
21	1.641	95°	77°	65°	125°	113°
23	1.766	95°	80°	69°	121°	110°
25	1.891	95°	80°	69°	121°	110°

MIL-DTL-38999 Series I Type

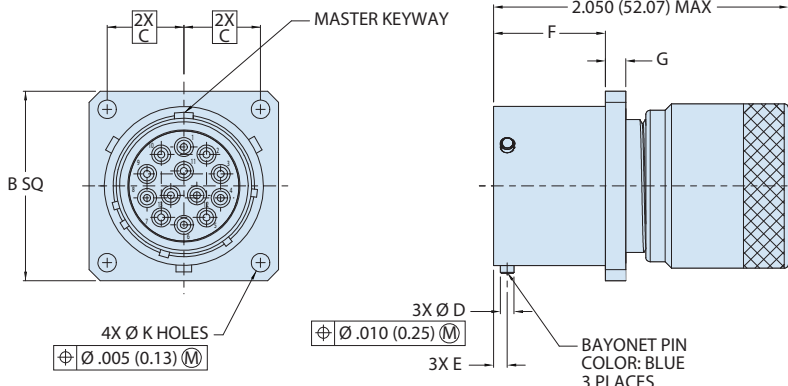
250-101 Plug and receptacle connector, shorting

TABLE III - WALL MOUNT



MASTER KEYWAY POSITION PARTIAL FRONT VIEW SHOWN (RECEPTACLE)

D0 - WALL MOUNT FRONT PANEL RECEPTACLE WITH STANDARD HOLES (REF: MS27466T)



Shell Size Code	Shell Size	B Sq	C Bsc	F	G	ØK Holes	ØD	E Bsc
A	9	0.958 0.918	0.360	.632 .627	.100 .085	.138 .123	.084 .076	0.100
B	11	1.051 1.011	0.406					
C	13	1.145 1.105	0.453					
D	15	1.239 1.199	0.485					
E	17	1.332 1.292	0.531					
F	19	1.458 1.418	0.578					
G	21	1.582 1.542	0.625	.602 .597	.130 .115	0.157 0.142	.131 .123	0.109
H	23	1.708 1.668	0.688					
J	25	1.832	0.750					
		1.792						

Sym	Material	Finish
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel
MA		Electroless Nickel, Matte
MT		Nickel-PTFE
ME		Electroless Nickel
ZR		Zinc Ni, Black (Tri-Valent CR)

SHELL SIZE	ALTERNATE KEYWAY POSITIONS				
	N°	A°	B°	C°	D°
9	95°	77°	-	-	113°
11	95°	81°	67°	123°	109°
13	95°	75°	63°	127°	115°
15	95°	74°	61°	129°	116°
17	95°	77°	65°	125°	113°
19	95°	77°	65°	125°	113°
21	95°	77°	65°	125°	113°
23	95°	80°	69°	121°	110°
25	95°	80°	69°	121°	110°

ENVIRONMENTAL CONNECTORS

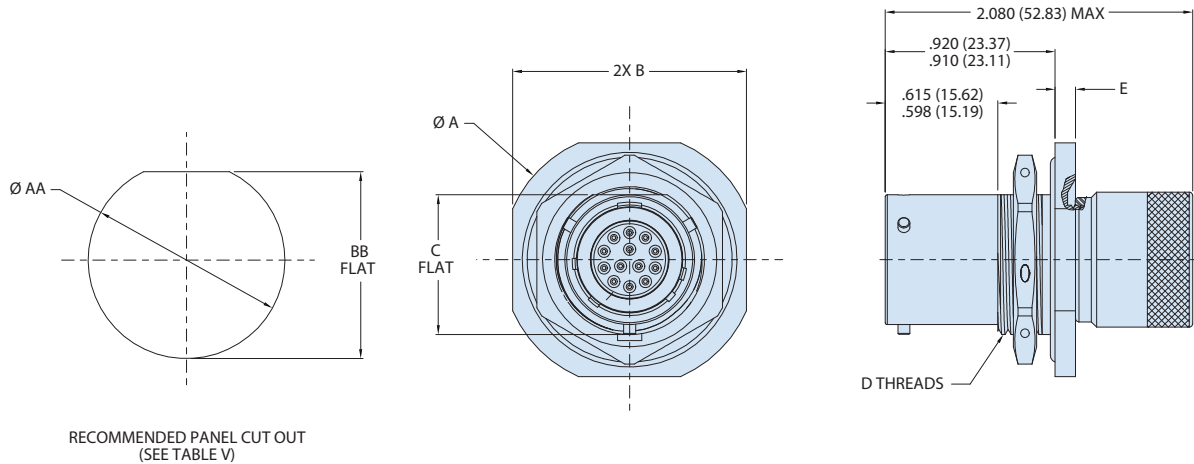
MIL-DTL-38999 Series I Type

250-101 Plug and receptacle connector, shorting

ENVIRONMENTAL CONNECTORS

TABLE V - JAM NUT

07 - JAM NUT MOUNT RECEPTACLE (REF: MS27468T)



Shell Size Code	Shell Size	Ø A ±.016	B ±.016	C Flat	D Thread Class 2A UNEF	E	Ø AA	BB Flat
A	9	1.188	1.062	0.655 0.645	.6875-24	.120 .099	0.703 0.693	0.661 0.654
B	11	1.375	1.250	0.755 0.745	.8125-20		0.835 0.825	0.771 0.761
C	13	1.500	1.375	0.942 0.932	1.0000-20		1.020 1.010	0.955 0.945
D	15	1.625	1.500	1.066 1.056	1.1250-18		1.145 1.135	1.085 1.075
E	17	1.750	1.625	1.191 1.181	1.2500-18		1.270 1.260	1.210 1.200
F	19	1.938	1.812	1.316 1.306	1.3750-18	.151 .130	1.395 1.385	1.335 1.325
G	21	2.062	1.938	1.441 1.431	1.5000-18		1.520 1.510	1.460 1.450
H	23	2.188	2.062	1.566 1.556	1.6250-18		1.645 1.635	1.585 1.575
J	25	2.312	2.188	1.691	1.7500-18		1.770	1.710
				1.681			1.760	1.700

NOTES

- Material/finish:
 - Shell, barrel, coupling nut, cover, jam nut - al alloy / see Table I
 - Wave washer - CRES / passivate
 - Insulator - high grade rigid dielectric / N.A
 - Seals - silicone / N.A.
 - Contacts, ground ring - copper alloy / gold
- Assembly is identified with Glenair's name, cage code, part number, and date code, space permitting
- All contacts are shorted to each other and to the shell. The maximum Resistance as measured from any contact to the shell shall be 10 milliohms.
- Glenair's 250-101 connectors are designed to mate with any qpl Manufacturer's mil-dtl-38999, series i connectors 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 shown.
- Alternate polarization 'u' (universal) is a non-standard mil-spec Option which allows for mating to any qpl manufacturer's Mil-dtl-38999, series i 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.
- Connector temperature range: -55°C to 175°C. Contact manufacturer for Additional options.