

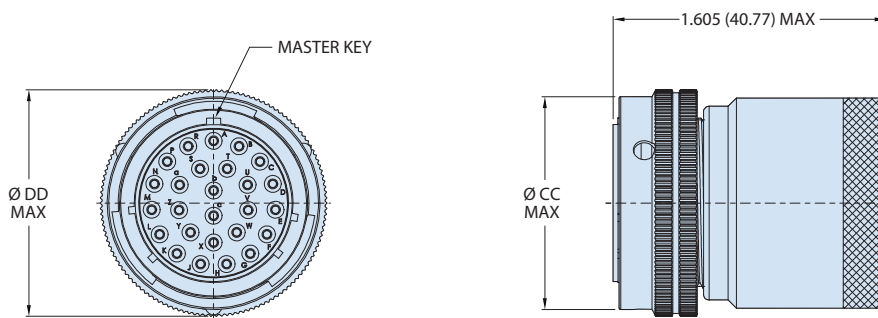
SuperNine® Space-grade Environmental Connector, Shorting, Wall Mount MIL-DTL-38999 Series III



B

Part Number Development						
Sample Part Number	250-102	G6	NF	16	-35	P N
Series / Basic Part No.	250-102 = Environmental Connector, Shorting					
Connector Style	06 = In-line D0 = Wall Mount Thru Hole 07 = Receptacle, Jam Nut					
Material/Finish	See Table I					
Shell Size	8, 10, 12, 14, 16, 18, 20, 22, 24					
Insert Arrangement	Per MIL-STD-1560					
Contact Type	P = Pin Contacts S = Socket Contacts					
Alternate Polarization	N = Normal, A, B, C, D, K, L, M, R U = Universal					

250-102 ENVIRONMENTAL CONNECTOR, SHORTING



06 - PLUG, STRAIGHT, NON-EMI (MS27473T)
(SEE TABLE II)

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

Shell Size Code	Shell Size	Ø CC MAX	Ø DD MAX
A	8	0.630	0.750
B	10	0.752	0.859
C	12	0.925	1.031
D	14	1.050	1.156
E	16	1.172	1.281
F	18	1.304	1.406
G	20	1.435	1.531
H	22	1.560	1.641
J	24	1.688	1.766

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 250-102 connectors are designed to mate with any qpl manufacturer's MIL-DTL-38999, Series II 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 shown is 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 II 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 temp range: -55° c to 175° c. Contact manufacturer for additional options.

SuperNine® Space-grade Environmental Connector, Shorting, Wall Mount

MIL-DTL-38999 Series III



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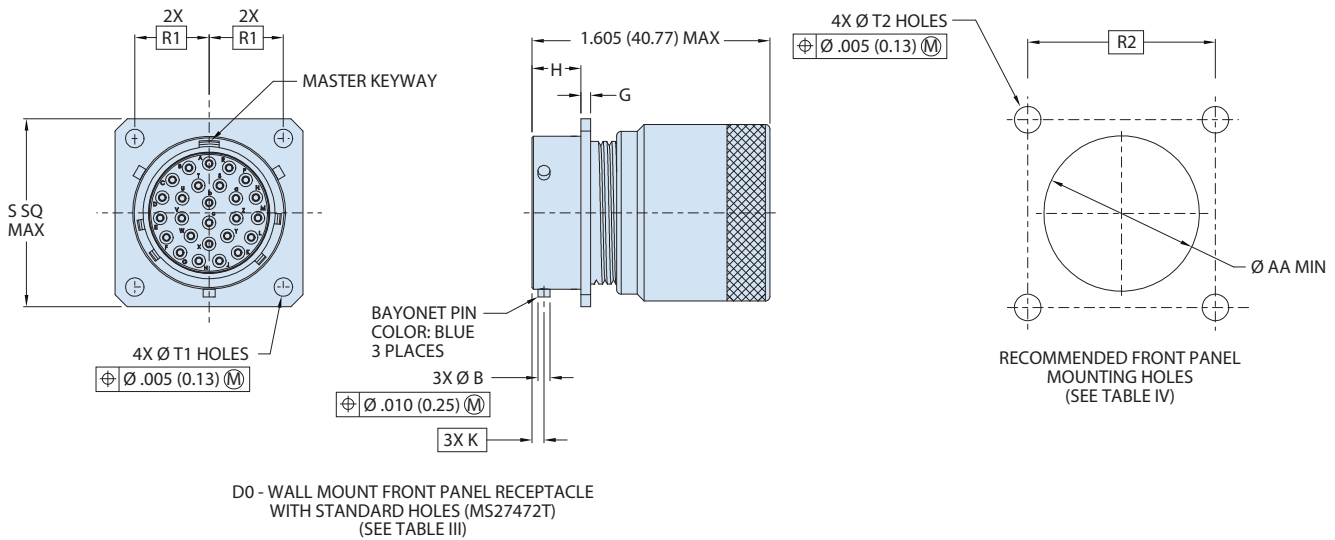


Table III - Wall Mount (Front) MS27472T

Shell Size Code	Shell Size	S SQ	R1 BSC	G	H	ØT1 HOLES	Ø B	K BSC
A	8	0.828	0.297	.069 / .058	.322 / .317	.130 / .115	.084 / .076	0.078
B	10	0.954	0.360					
C	12	1.047	0.406					
D	14	1.141	0.453					
E	16	1.234	0.485					
F	18	1.328	0.531					
G	20	1.453	0.578					
H	22	1.578	0.625					
J	24	1.703	0.688			.157 / 0.142	.131 / .123	

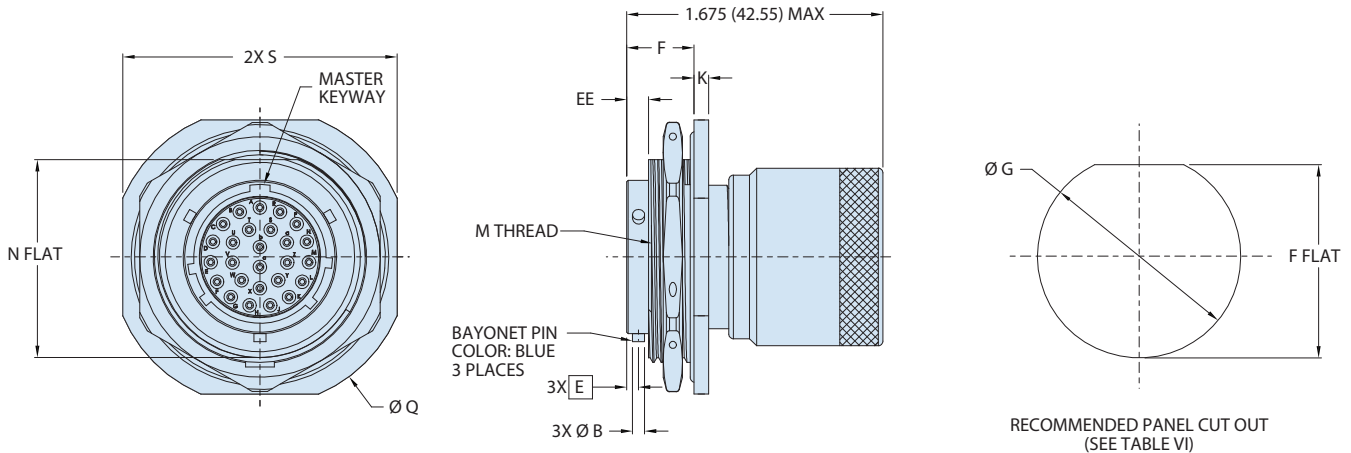
Table IV - Mounting Holes

Shell Size Code	Shell Size	ØAA Min	ØT2 Holes	R2 Bsc	
A	8	0.516	.133 / .123	0.594	
B	10	0.625		0.719	
C	12	0.750		0.812	
D	14	0.906		0.906	
E	16	1.016		0.969	
F	18	1.141		1.062	
G	20	1.266		1.156	
H	22	1.375		.159 / .149	1.250
J	24	1.484		.155 / .145	1.375

SuperNine® Space-grade Environmental Connector, Shorting, Wall Mount MIL-DTL-38999 Series III



250-102 ENVIRONMENTAL CONNECTOR, SHORTING, JAM NUT MOUNT



07 - JAM NUT MOUNT RECEPTACLE (MS27474T)
(SEE TABLE V)

Table V - Jam Nut Mount

Shell Size Code	Shell Size	$\varnothing Q$	S	N Flat	M Thread	K	$\varnothing B$	E Bsc	F	Ee
A	8	1.391 / 1.359	1.266 / 1.234	0.818 / 0.811	.8750-20 UNEF-2A	.105 / .084	.084 / .076	0.078	.443 / .433	.145 / .140
B	10	1.516 / 1.484	1.391 / 1.359	0.942 / 0.935	1.0000-20 UNEF-2A					
C	12	1.641 / 1.609	1.516 / 1.484	1.066 / 1.059	1.1250-18 UNEF-2A					
D	14	1.766 / 1.734	1.641 / 1.609	1.191 / 1.184	1.2500-18 UNEF-2A					
E	16	1.954 / 1.922	1.797 / 1.765	1.321 / 1.314	1.3750-18 UNEF-2A					
F	18	2.032 / 2.000	1.906 / 1.874	1.441 / 1.434	1.5000-18 UNEF-2A					
G	20	2.157 / 2.125	2.032 / 2.000	1.566 / 1.559	1.6250-18 UNEF-2A					
H	22	2.281 / 2.249	2.156 / 2.124	1.691 / 1.684	1.750-18 UNS-2A	.131 / .123		.469 / .459	.171 / .166	
J	24	2.406 / 2.374	2.281 / 2.249	1.816 / 1.809	1.875-16 UN-2A					

Table VI - Panel Mount

Shell Size Code	Shell Size	$\varnothing G$	F Flat
A	8	0.895 / 0.885	0.830 / 0.820
B	10	1.020 / 1.010	0.955 / 0.945
C	12	1.145 / 1.135	1.085 / 1.075
D	14	1.270 / 1.260	1.210 / 1.200
E	16	1.395 / 1.385	1.335 / 1.325
F	18	1.520 / 1.510	1.460 / 1.450
G	20	1.645 / 1.635	1.585 / 1.575
H	22	1.770 / 1.760	1.709 / 1.699
J	24	1.895 / 1.885	1.835 / 1.825