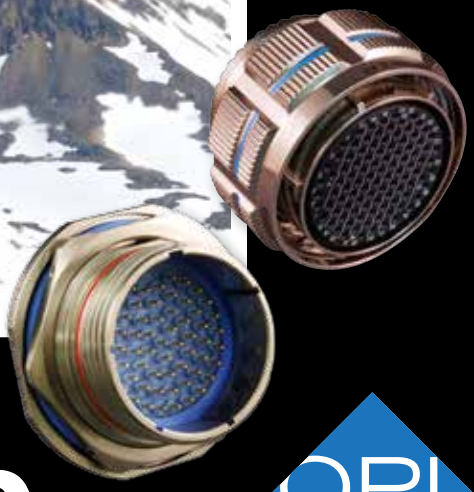
Glenair®



QPL and COTS Equivalent

MIL-DTL-38999 Series III

Industry-Standard • Military / Aerospace • Harsh-Environment

SEPTEMBER 2016

QPL AND COTS EQUIVALENT

MIL-DTL-38999 Series III

The industry standard mil/aero connector backed with Glenair service and availability

Standard environmental-class MIL-DTL-38999 Series III connectors with DLA certification are now manufactured and supplied by Glenair. These industry-standard connectors are ideally suited for the broad range of harsh environmental land, sea, air, and space applications and are backed with Glenair's industry leading service, support, and availability. Marked with D38999 or Glenair COTS part numbering, these environmental crimp-contact connectors are available in cable plug or mounted jam nut / square flange receptacle shell styles. All standard material and finish classes are supported including W (Cad/O.D. over Electroless Nickel), F (Electroless Nickel), T (Nickel-PTFE) and G (Space-Grade Electroless Nickel). Other RoHS-compliant finishes including Glenair ZR (Black Zinc-Nickel) are also available under Glenair commercial part numbers. Contact arrangements per MIL-STD-1560 and all standard and normal and alternate polarizations are fully supported. Best of all, defense and commercial aerospace customers, as well as land and marine engineers and procurement specialists may now specify these mission-critical interconnects directly from Glenair—the recognized service, support, and availability leader for the interconnect industry.

DLA QPL MIL-DTL-38999 SERIES III NOW AVAILABLE FROM GLENAIR

- **Qualified environmental plug, jam nut, and square flange receptacles**
- **All 1560 crimp-contact insert arrangements fully supported**
- **W, F, T and G plating classes, plus Glenair COTS equivalents**
- **A 100% made in America interconnect: No foreign-sourced materials, component parts, or assembly labor employed**

Glenair: Made in America since 1956

QPL AND COTS EQUIVALENT

MIL-DTL-38999 Series III

Industry standard harsh environment connectors

MECHANICAL, ENVIRONMENTAL, AND ELECTRICAL PERFORMANCE

MIL-DTL-38999 Series III (Glenair Series 233-105) offers outstanding interconnect performance for mission-critical military and commercial applications.

- **Electromagnetic compatibility (EMC):** metal-to-metal coupling, plug grounding fingers, and conductive shell finishes deliver excellent shielding performance up to 65 dB at 10 GHz
- **Contact protection:** scoop-proof design prevents inadvertent damage to pin contacts during mating
- **Environmental performance:** interfacial and wire grommet seals deliver IP67 level sealing, even at high altitude
- **Corrosion resistance:** connector shell finishes—from Cad over Nickel to Class T Nickel-PTFE offer outstanding corrosion resistance
- **Mating:** triple-start stub ACME threads provide fast mating and resist galling and cross-threading
- **Anti-Decoupling:** better-than-QPL vibration and shock performance
- **Supported contacts:** from size #22D signal to #12 shielded Coax
- **Advanced COTS versions:** high-performance series (Glenair SuperNine®) available for improved durability, ease of termination, EMI/RFI filtering and more

CONNECTOR FINISH CLASSES

Electroless Nickel
Conductivity +++++
Corrosion Resistance ⧗⧗⧗⧖⧖
-65° to +200°C
Glenair Code ME
D38999 Class F

Space-Grade Electroless Nickel
Conductivity +++++
Corrosion Resistance ⧗⧗⧗⧖⧖
-65° to +200°C
Glenair Code MA
D38999 Class G

Cadmium
Conductivity ++++
Corrosion Resistance ⧗⧗⧗⧗⧖
-65° to +175°C
Glenair Code NF
D38999 Class W

Nickel-PTFE
Conductivity +++++
Corrosion Resistance ⧗⧗⧗⧗⧖
-65° to +175°C
Glenair Code MT
D38999 Class T

Black Zinc Nickel
Conductivity +++
Corrosion Resistance ⧗⧗⧗⧗⧖
-65° to +175°C
Glenair Code ZR
D38999 Class Z*
*qualification pending

SUPPORTED CRIMP-CONTACT SHELL STYLES

Plug

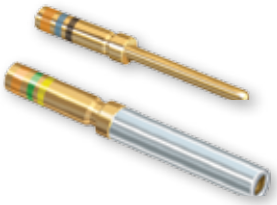
Jam Nut Receptacle

Square Flange Receptacle

Mechanical Performance Features
Threaded Triple-Start Coupling Design
Nine Shell Sizes, Range 9 – 25
Scoop-Proof Shell Design
Full Mate Visual Indicator
Integrated Contact Retention System
Interfacial and Grommet Seals
Fully Shielded
Lightning Strike
Shell-to-Shell Bottoming
Threaded/Toothed Accessory Interface
Full Range of Assembly Tools

MIL-DTL-38999 Series III

MIL-STD-1560 contact arrangements
Reference information

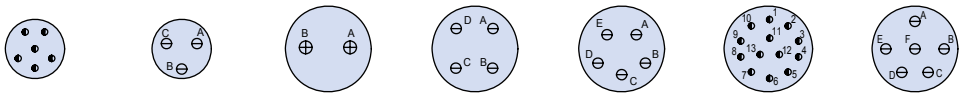
Available Series 233-105 and D38999 Contact Arrangements*								
Contact	Number of Contacts					233-105	D38999
	#23	#22D	#20	#16	#12		
Size #23 High-Density (HD) 5 Amp Max. Current #22-#28 AWG 	19					11-23	
	32					13-23	
	55					15-23	
	73					17-23	
	88					19-23	
	121					21-23	
	151					23-23	
	187					25-23	
Size #22D 5 Amp Max. Current #22-#24 AWG 		6				9-35	A35
		13				11-35	B35
		22				13-35	C35
		37				15-35	D35
		55				17-35	E35
		66				19-35	F35
		67				19-45	F45
		79				21-35	G35
		100				23-35	H35
		128				25-35	J35
Size #20 7.5 Amp Max. Current #20-#24 AWG 			3			9-98	A98
			4			11-4	B4
			5			11-5	B5
			6			11-98	B98
			7			11-99	B99
			8			13-8	C8
			10			13-98	C98
			18			15-18	D18
			19			15-19	D19
			26			17-26	E26
			32			19-32	F32
			24			21-24	G24
			25			21-25	G25
			27			21-27	G27
			41			21-41	G41
			32			23-32	H32
			34			23-34	H34
			36			23-36	H36
			53			23-53	H53
			55			23-55	H55
			61			25-61	J61
Size #16 Contacts 13 Amp Max. Current #16-#20 AWG 				2		11-2	B2
				4		13-4	C4
				5		15-5	D5
				8		17-8	E8
				11		19-11	F11
				16		21-16	G16
				21		23-21	H21
				16		23-97	H97
				11		23-99	H99
				29		25-29	J29
				37		25-37	J37
Size #12 Contacts 23 Amp Max. Current #12-14 AWG 					6	17-6	E6
					11	21-11	G11
					19	25-19	J19

*Only contact arrangements specifically listed in the D38999 column are currently QPL'd

MIL-DTL-38999 Series III

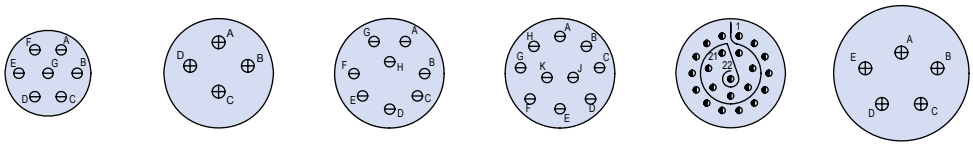
MIL-STD-1560 contact arrangements - pin front view
Reference information

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



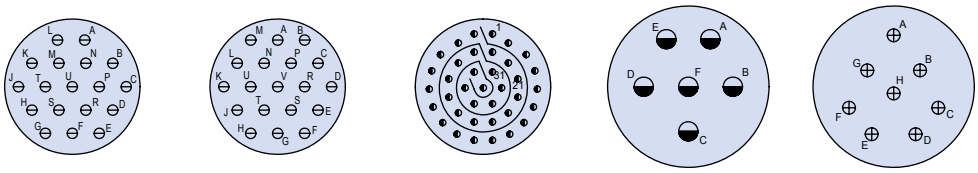
Insert Arrangement 233-105	9-35	9-98	11-2	11-4	11-5	11-35	11-98
D38999	A35	A98	B2	B4	B5	B35	B98
No. of Contacts	6	3	2	4	5	13	6
Contact Size	#22D	#20	#16	#20	#20	#22D	#20
Service Rating	M	I	I	I	I	M	I

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



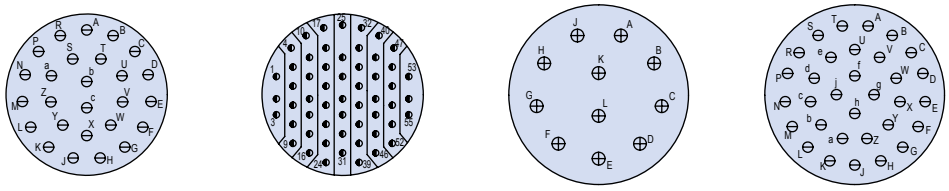
Insert Arrangement 233-105	11-99	13-4	13-8	13-98	13-35	15-5
D38999	B99	C4	C8	C98	C35	D5
No. of Contacts	7	4	8	10	22	5
Contact Size	#20	#16	#20	#20	#22D	#16
Service Rating	I	I	I	I	M	II

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



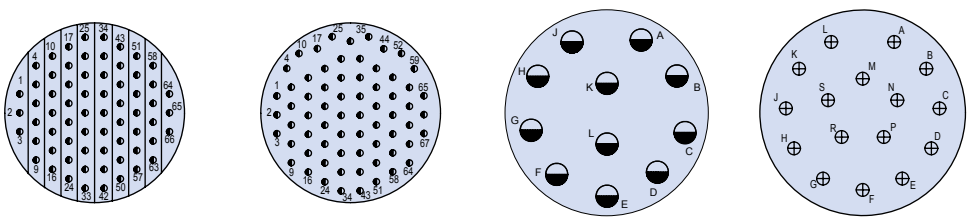
Insert Arrangement 233-105	15-18	15-19	15-35	17-6	17-8
D38999	D18	D19	D35	E6	E8
No. of Contacts	18	19	37	6	8
Contact Size	#20	#20	#22D	#12	#16
Service Rating	I	I	M	I	II

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



Insert Arrangement 233-105	17-26	17-35	19-11	19-32
D38999	E26	E35	F11	F32
No. of Contacts	26	55	11	32
Contact Size	#20	#22D	#16	#20
Service Rating	I	M	II	I

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒

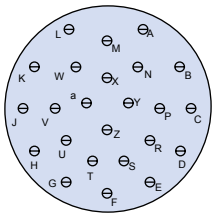


Insert Arrangement 233-105	19-35	19-45	21-11	21-16
D38999	F35	F45	G11	G16
No. of Contacts	66	67	11	16
Contact Size	#22D	#22D	#12	#16
Service Rating	M	M	I	II

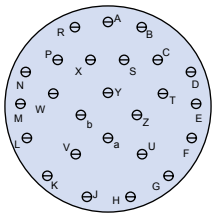
MIL-DTL-38999 Series III

MIL-STD-1560 contact arrangements - pin front view
Reference information

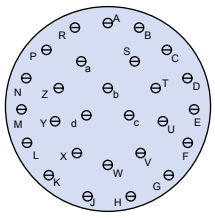
Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



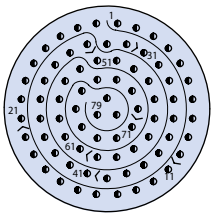
Insert Arrangement 233-105	21-24
D38999	G24
No. of Contacts	24
Contact Size	#20
Service Rating	I



21-25
G25
25
#20
I

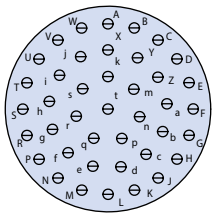


21-27
G27
27
#20
I

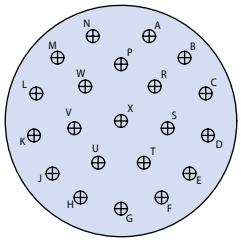


21-35
G35
79
#22D
M

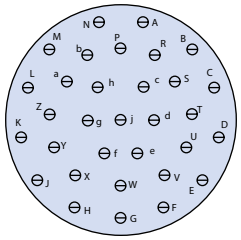
Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



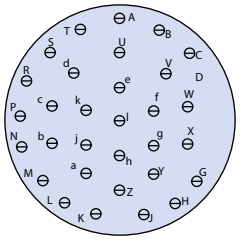
Insert Arrangement 233-105	21-41
D38999	G41
No. of Contacts	41
Contact Size	#20
Service Rating	I



23-21
H21
21
#16
II

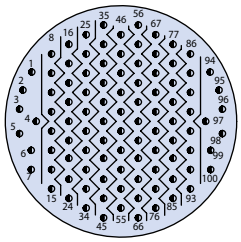


23-32
H32
32
#20
I

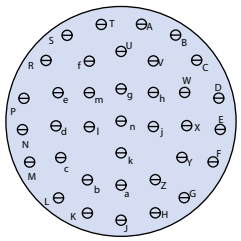


23-34
H34
34
#20
I

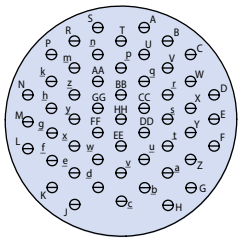
Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



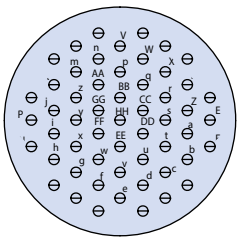
Insert Arrangement 233-105	23-35
D38999	H35
No. of Contacts	100
Contact Size	#22D
Service Rating	M



23-36
H36
36
#20
I

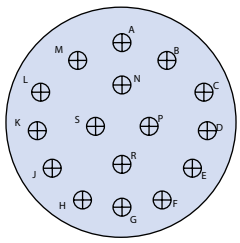


23-53
H53
53
#20
I

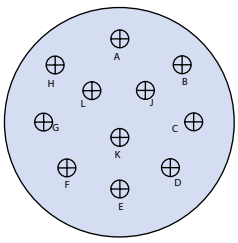


23-55
H55
55
#20
I

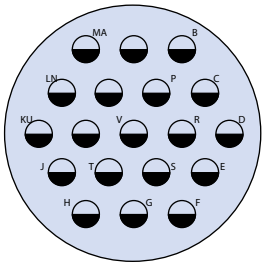
Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



Insert Arrangement 233-105	23-97
D38999	H97
No. of Contacts	16
Contact Size	#16
Service Rating	I



23-99
H99
11
#16
II

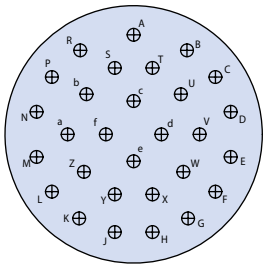


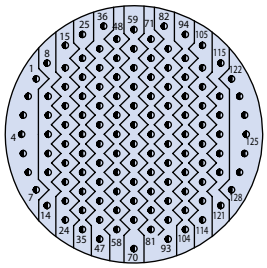
25-19
J19
19
#12
I

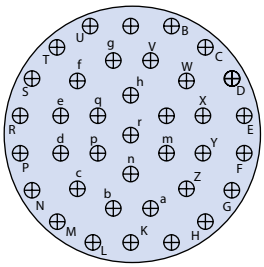
MIL-DTL-38999 Series III

MIL-STD-1560 contact arrangements - pin front view
Reference information

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒

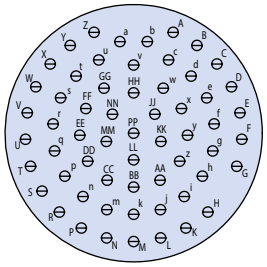






Insert Arrangement	233-105	25-29	25-35	25-37
	D38999	J29	J35	J37
No. of Contacts		29	128	37
Contact Size		#16	#22D	#16
Service Rating		I	M	II

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



Insert Arrangement	233-105	25-61
	D38999	J61
No. of Contacts		61
Contact Size		#20
Service Rating		I

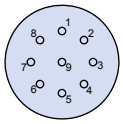
Voltage Rating	Suggested Operating Voltage		Test Voltage AC RMS 60Hz							
	(Sea Level)		Sea Level		50,000 Ft.		70,000 Ft.		100,000 Ft	
Service Rating	AC (RMS)	DC	unmated	mated	unmated	mated	unmated	mated	unmated	mated
M	400	550	1300	1300	550	800	350	800	200	800
N	300	450	1000	1000	400	600	260	600	200	600
I	600	850	1800	1800	600	1000	400	1000	200	1000
II	900	1250	2300	2300	800	1000	500	1000	200	1000

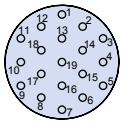
Note: The establishment of electrical safety factors is left entirely to the designer, as he is in the position to know exactly what peak voltages, switching currents, transients, etc. can be expected in a particular circuit

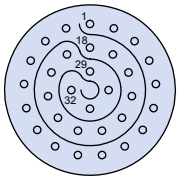
MIL-DTL-38999 Series III

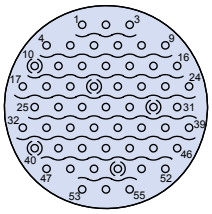
MIL-STD-1560* high density arrangements - pin front view
Reference information

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



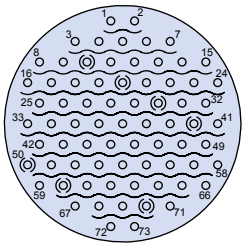


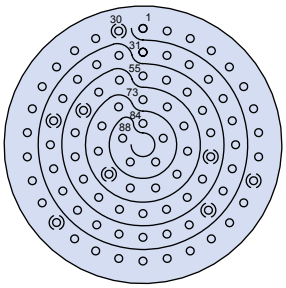


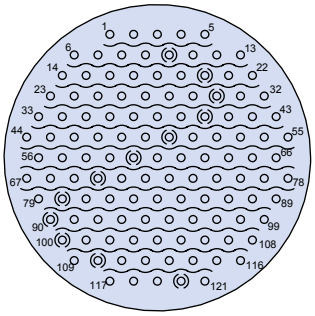


Insert Arrangement	233-105	09-23	11-23	13-23	15-23
	D38999	–	–	–	–
No. of Contacts		9	19	19	55
Contact Size		#23	#23	#23	#23
Service Rating		N	N	N	N

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒

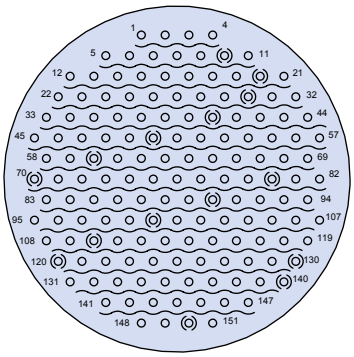


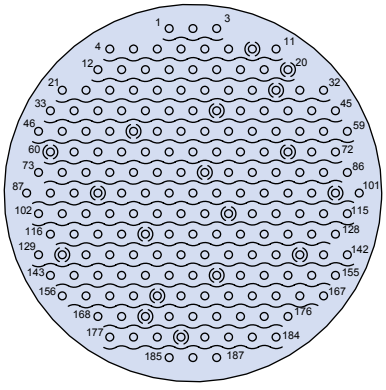




Insert Arrangement	233-105	17-23	19-23	21-23
	D38999	–	–	–
No. of Contacts		73	88	121
Contact Size		#23	#23	#23
Service Rating		N	N	N

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒





Insert Arrangement	233-105	23-23	25-23
	D38999	–	–
No. of Contacts		151	187
Contact Size		#23	#23
Service Rating		N	N

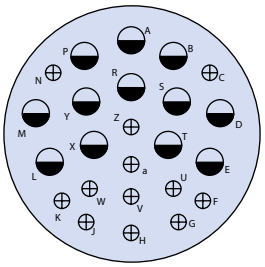
*Pending release of MIL-STD-1560C these contact arrangements are only available in Glenair Series 233-105

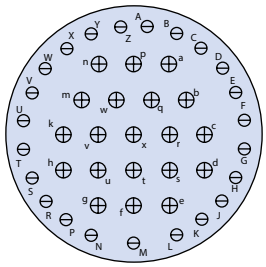
MIL-DTL-38999 Series III

MIL-STD-1560 combo contact arrangements
Reference information

Combo Contact Arrangements							
Contact Size			Number of Contacts			233-105	D38999
			#20	#16	#12		
Size #20 Contacts 7.5 Amp Max. Current #20-#24 AWG	Size #16 Contacts 13 Amp Max. Current #16-#20 AWG	Size #12 Contacts 23 Amp Max. Current #12-#14 AWG	14	1		15-15	D15
			8	4		15-97	D97
			21	2		17-99	E99
			26	2		19-28	F28
			29	1		19-30	F30
			37	2		21-39	G39
			48	8		25-4	J4
				12	12	25-24	J24
			23	20		25-43	J43

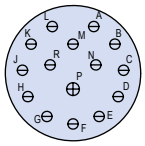
Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒

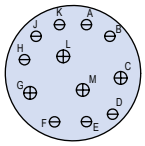


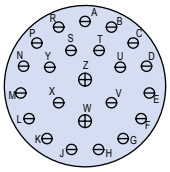


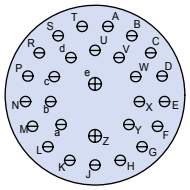
Insert Arrangement 233-105	25-24		25-43	
D38999	J24		J43	
No. of Contacts and Size	12X #12	12X #16	20X #16	23X #20
Service Rating	I		I	

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒



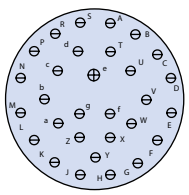


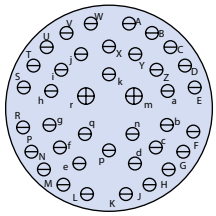


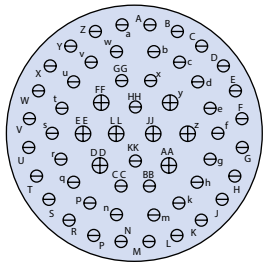


Insert Arrangement 233-105	15-15		15-97		17-99		19-28	
D38999	D15		D97		E99		F28	
No. of Contacts and Size	1X #16	14X #20	4X #16	8X #20	2X #16	21X #20	2X #16	26X #20
Service Rating	I		I		I		I	

Contact Legend
#22D • #16 ⊕
#20 ⊖ #12 ◒





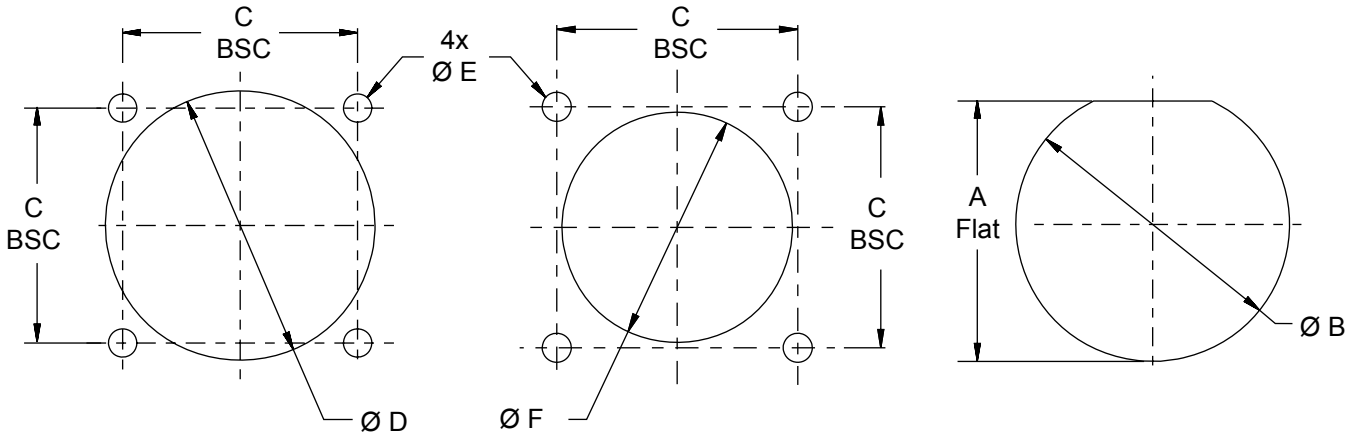


Insert Arrangement 233-105	19-30		21-39		25-4	
D38999	F30		G39		J4	
No. of Contacts and Size	1X #16	29X #20	2X #16	37X #20	8X #16	48X #20
Service Rating	I		I		I	

MIL-DTL-38999 Series III

Recommended cut-out panel
Reference information

Recommended Cut-Out Panel



Square Flange Back Panel Mount

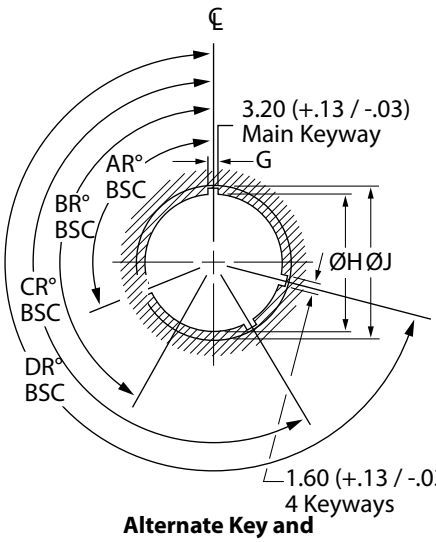
Square Flange Front Panel Mount

Jam Nut Mount

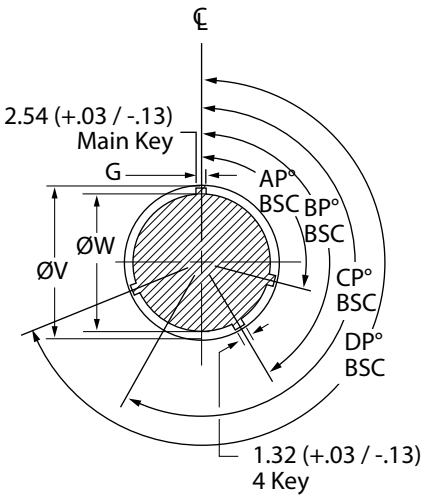
Panel Cut-Out Dimensions							
Shell Size Code	Shell Size	Jam Nut Mount		Square Flange Mount			
		A Flat	B Dia	C BSC	D Dia Min	E Dia Flange Holes	F Dia Min
A	9	.661/.654 (16.79/16.61)	.703/.693 (17.58/17.60)	.719 (18.26)	.656 (16.66)	.133/.123 (3.38/3.12)	.516 (13.12)
B	11	.771/.761 (19.58/19.33)	.835/.825 (21.21/20.96)	.812 (20.62)	.796 (20.22)		.625 (15.88)
C	13	.955/.945 (24.26/24.00)	1.020/1.010 (25.91/25.65)	.906 (23.01)	.922 (23.42)		.750 (19.05)
D	15	1.085/1.075 (27.56/27.31)	1.145/1.135 (29.08/28.83)	.969 (24.61)	1.047 (26.59)		.906 (23.01)
E	17	1.210/1.200 (30.73/30.48)	1.270/1.260 (32.26/32.00)	1.062 (26.97)	1.219 (30.96)		1.016 (25.81)
F	19	1.335/1.325 (33.91/33.66)	1.395/1.385 (35.43/35.18)	1.156 (29.36)	1.297 (32.94)		1.141 (28.98)
G	21	1.460/1.450 (37.08/36.83)	1.520/1.510 (38.61/38.35)	1.250 (31.75)	1.422 (36.12)		1.266 (32.16)
H	23	1.585/1.575 (40.26/40.01)	1.645/1.635 (41.78/41.53)	1.375 (34.93)	1.547 (39.29)	.159/.149 (4.04/3.78)	1.375 (34.93)
J	25	1.710/1.700 (43.43/43.18)	1.770/1.760 (44.96/44.70)	1.500 (38.10)	1.672 (42.47)	.155/.145 (3.94/3.68)	1.484 (37.69)

Alternate key polarization Reference Information

ALTERNATE POLARIZATIONS PER MIL-DTL-38999 SERIES III



Alternate Key and Keyway Receptacles



Alternate Key and Keyway Plugs

Series III Alternate Key and Keyway Polarization					
Shell Size	Key and Keyway Code	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
9	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
	E	91	131	197	240
11 13 15	N	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
	D	119	146	176	298
	E	51	141	184	242
17 19 21 23 25	N	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272

Glenair's Universal Key is intermateable with all MIL-DTL-38999 Series III polarizations.

MIL-DTL-38999 Series III Environmental connectors

233-105 Crimp contact series with accessory threads

How To Order - 233-105							
Sample Part Number	**233-105**	**-20**	**NF**	**17-8**	**P**	**N**	**-LC**
Series / Basic Part No.	MIL-DTL-38999 Series III Environmental Connector						
Connector Style	**20** = Wall mount receptacle **24** = Jam nut receptacle **26** = Plug						
Material and Finish	See Table I						
Shell Size-Insert Arrangement	Per MIL-STD-1560						
Contact Type	**P** = Pin, 500 cycles **A** = Pin insert, less standard contacts	**S** = Socket, 500 cycles **B** = Socket insert, less standard contacts					
Alternate Polarization	**A**, **B**, **C**, **D**, **E**, **N** = Normal						
Mod Code for Less Contacts	Connector marked with **P** or **S** according to insert but supplied less contacts						

Table I: Material and Finish				
38999	**233-105**	**Material**	**Finish Description**	**RoHS**
F	**ME**	Aluminum	Electroless nickel (48 hr. salt spray)	☑
G	**MA**		Space-grade electroless nickel, matte (48 hr. salt spray)	☑
T	**MT**		Ni-PTFE	☑
W	**NF**		Cadmium O.D. over electroless nickel (500 hr. salt spray)	☒
Z*	**ZR**		Black zinc-nickel over electroless nickel	☑
*qualification pending				

Connector Mating and Accessory Thread Dimensions			
Shell Size Code	**Shell Size**	**A Thread**	**J Thread**
A	9	.6250-.1P-.3L-TS-2A	M12 X 1.0-6g 0.100R
B	11	.7500-.1P-.3L-TS-2A	M15 X 1.0-6g 0.100R
C	13	.8750-.1P-.3L-TS-2A	M18 X 1.0-6g 0.100R
D	15	1.0000-.1P-.3L-TS-2A	M22 X 1.0-6g 0.100R
E	17	1.1875-.1P-.3L-TS-2A	M25 X 1.0-6g 0.100R
F	19	1.2500-.1P-.3L-TS-2A	M28 X 1.0-6g 0.100R
G	21	1.3750-.1P-.3L-TS-2A	M31 X 1.0-6g 0.100R
H	23	1.5000-.1P-.3L-TS-2A	M34 X 1.0-6g 0.100R
J	25	1.6250-.1P-.3L-TS-2A	M37 X 1.0-6g 0.100R

Wire Accommodation	
Contact Size	**Wire Gauge**
23	#22 - #28
22D	#22 - #28
20	#20 - #24
16	#16 - #20
12	#12 - #14

NOTES

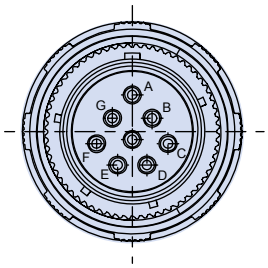
1. 233-105 is designed to meet or exceed the mechanical, electrical, environmental and dimensional requirements of D38999/20, /24 & /26.
2. Insert arrangements IAW MIL-STD-1560, Glenair HD and size #8 shielded contact insert arrangements available only in COTS series
3. Blue color band indicates rear release retention system.
4. Connector is supplied with contacts (including spares), insertion/removal tool and sealing plugs.
5. Dimensions in inches (millimeters) are subject to change without notice
6. Consult factory for additional information

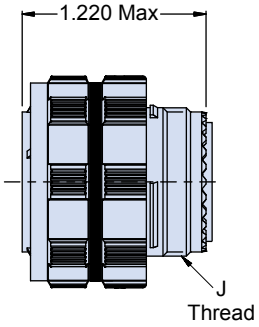
MIL-DTL-38999 Series III Environmental connectors

D38999/20, /24, /26 Crimp contact series

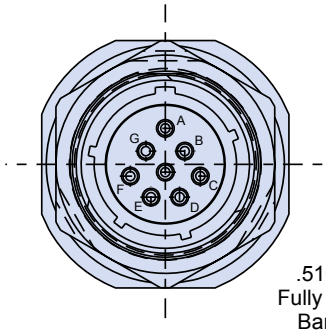
How To Order - Mil-Spec							
Sample Part Number	**D38999/**	**20**	**W**	**A**	**35**	**P**	**N**
Series / Basic Part No.	MIL-DTL-38999 Series III Environmental Connector						
Connector Style	**20** = Wall mount receptacle **24** = Jam nut receptacle **26** = Plug						
Class (Material and Finish)	See Table I						
Shell Size Code	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H** and **J** (per MIL-STD-1560)						
Insert Pattern	See pages 4–9 (per MIL-STD-1560)						
Contact Type	**P** = Pin, 500 cycles **A** = Pin insert, less standard contacts	**S** = Socket, 500 cycles **B** = Socket insert, less standard contacts					
Alternate Polarization	**A**, **B**, **C**, **D**, **E**, **N** = Normal						

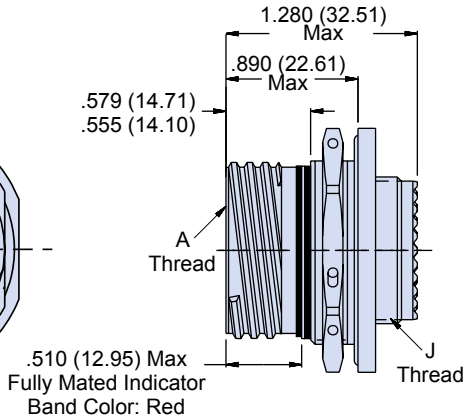
PLUG WITH ACCESSORY THREADS

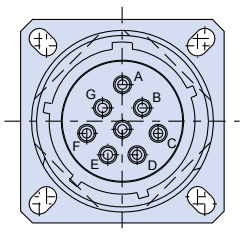


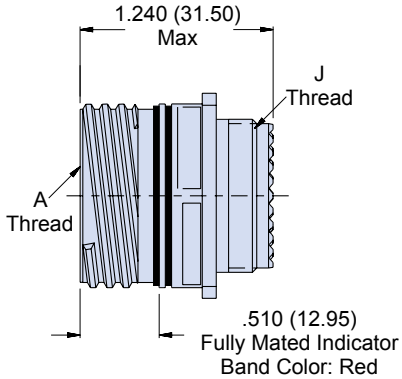


JAM NUT RECEPTACLE AND WALL MOUNT RECEPTACLE









Dimensions in inches (millimeters) are subject to change without notice

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QPL MIL-DTL-38999 CONNECTORS

D38999/26 Plug

D38999/24 Jam nut receptacle

D38999/20 Wall mount receptacle

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