



QPL and COTS Equivalent

MIL-DTL-38999 Series III



Industry-Standard • Military / Aerospace • Harsh-Environment

MAY 2015



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), and G (Space-Grade Electroless Nickel). RoHS-compliant finishes including Glenair MT (Nickel-PTFE) and ZR (Black Zinc-Nickel) are also available. 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, and G plating classes, plus Glenair COTS nickel-PTFE and zinc-nickel
- A 100% made in America interconnect: No foreign-sourced materials, component parts, or assembly labor employed



Glenair: Made in America since 1956

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 Glenair 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****Black Zinc Nickel**

Conductivity +++++

Corrosion Resistance ⌘ ⌘ ⌘ ⌘ ⌘

-65° to +175°C

Glenair Code **ZR**D38999 Class **Z****Nickel-PTFE**

Conductivity +++++

Corrosion Resistance ⌘ ⌘ ⌘ ⌘ ⌘

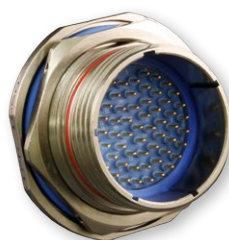
-65° to +175°C

Glenair Code **MT**D38999 Class **T**

SUPPORTED CRIMP-CONTACT SHELL STYLES



Plug



Jam Nut Receptacle



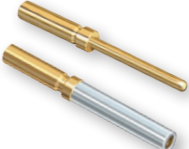
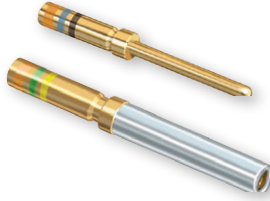
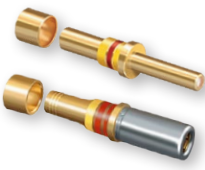
Square Flange Receptacle

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
	#23	#22D	#20	#16	#12	
Size #23 High-Density (HD) 5 Amp Max. Current #22-#28 AWG 	19					11-19
	32					13-32
	55					15-55
	73					17-73
	88					19-88
	121					21-121
	151					23-151
Size #22D 5 Amp Max. Current #22-#24 AWG 	187					25-187
		6				9-35
		13				11-35
		22				13-35
		37				15-35
		55				17-35
		66				19-35
Size #20 7.5 Amp Max. Current #20-#24 AWG 		67				19-45
		79				21-35
		100				23-35
		128				25-35
			3			9-98
			4			11-4
			5			11-5
			6			11-98
			7			11-99
			8			13-8
			10			13-98
			18			15-18
			19			15-19
			26			17-26
			32			19-32
			24			21-24
			25			21-25
			27			21-27
			41			21-41
			32			23-32
Size #16 Contacts 13 Amp Max. Current #16-#20 AWG 			34			23-34
			36			23-36
			53			23-53
			55			23-55
			61			25-61
				2		11-2
				4		13-4
				5		15-5
				8		17-8
				11		19-11
Size #12 Contacts 23 Amp Max. Current #12-14 AWG 				16		21-16
				21		23-21
				16		23-97
				11		23-99
				29		25-29
				37		25-37
					6	17-6
					11	21-11
					19	25-19

*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

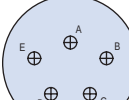
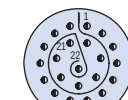
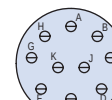
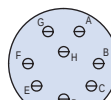
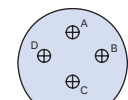
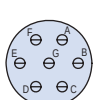
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	9-35 A35	9-98 A98	11-2 B2	11-4 B4	11-5 B5	11-35 B35	11-98 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

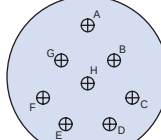
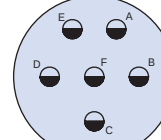
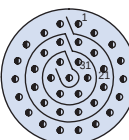
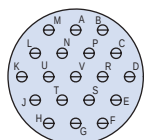
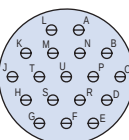
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	11-99 B99	13-4 C4	13-8 C8	13-98 C98	13-35 C35	15-5 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

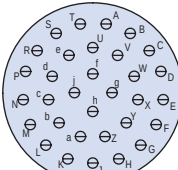
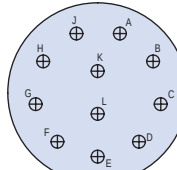
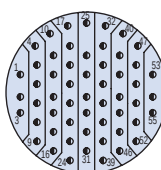
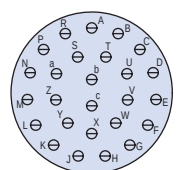
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	15-18 D18	15-19 D19	15-35 D35	17-6 E6	17-8 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

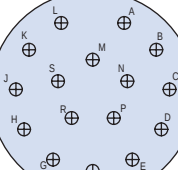
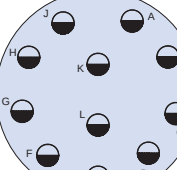
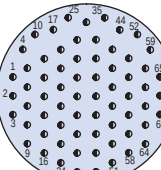
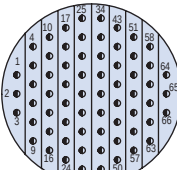
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	17-26 E26	17-35 E35	19-11 F11	19-32 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 D38999	19-35 F35	19-45 F45	21-11 G11	21-16 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

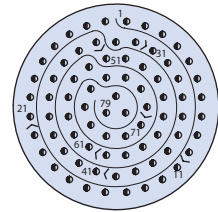
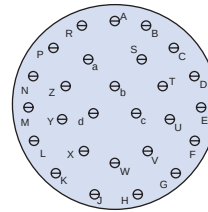
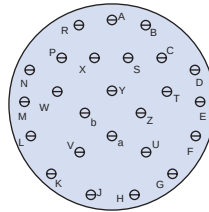
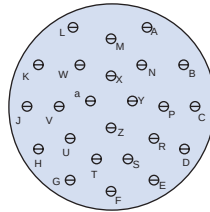


MIL-STD-1560 contact arrangements - pin front view

Reference information

Contact Legend

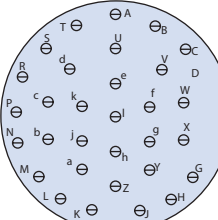
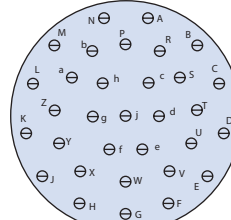
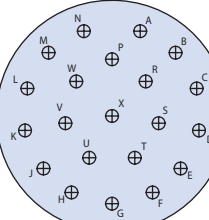
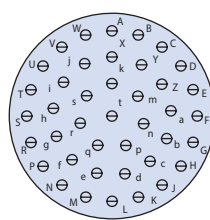
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	21-24 G24	21-25 G25	21-27 G27	21-35 G35
No. of Contacts		24	25	27	79
Contact Size		#20	#20	#20	#22D
Service Rating		I	I	I	M

Contact Legend

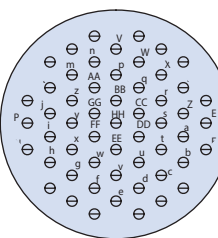
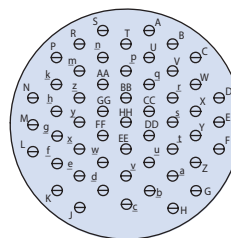
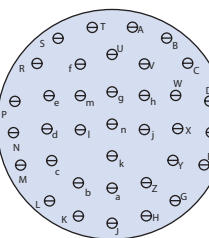
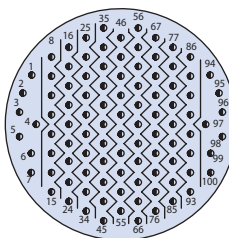
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	21-41 G41	23-21 H21	23-32 H32	23-34 H34
No. of Contacts		41	21	32	34
Contact Size		#20	#16	#20	#20
Service Rating		I	II	I	I

Contact Legend

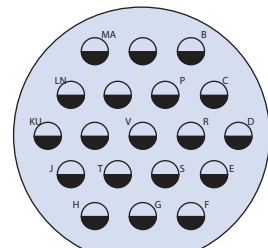
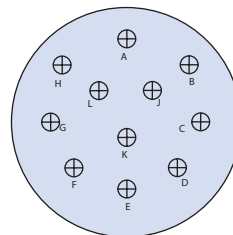
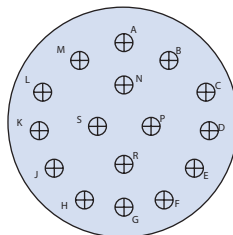
#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	23-35 H35	23-36 H36	23-53 H53	23-55 H55
No. of Contacts		100	36	53	55
Contact Size		#22D	#20	#20	#20
Service Rating		M	I	I	I

Contact Legend

#22D • #16 ⊕
#20 ⊖ #12 ⊙



Insert Arrangement	233-105 D38999	23-97 H97	23-99 H99	25-19 J19
No. of Contacts		16	11	19
Contact Size		#16	#16	#12
Service Rating		I	II	I

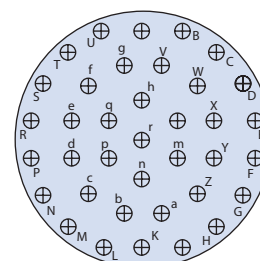
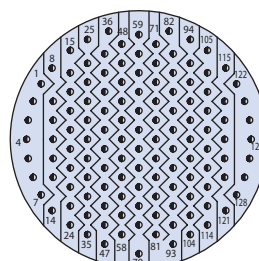
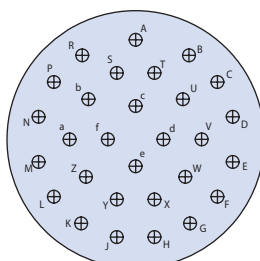
MIL-DTL-38999 Series III



MIL-STD-1560 contact arrangements - pin front view

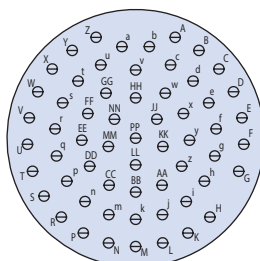
Reference information

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



Insert Arrangement	233-105 D38999	25-29 J29	25-35 J35	25-37 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 D38999	25-61 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

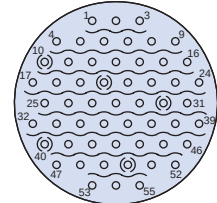
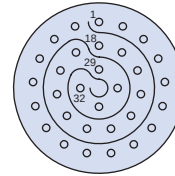
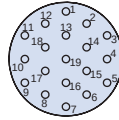
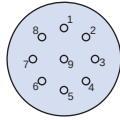


MIL-STD-1560* high density arrangements - pin front view

Reference information

Contact Legend

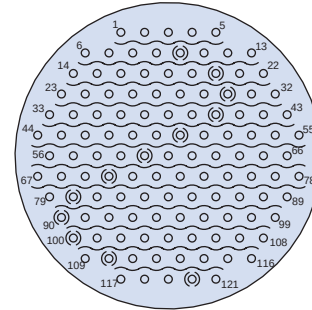
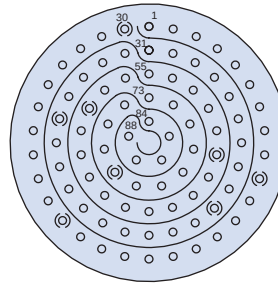
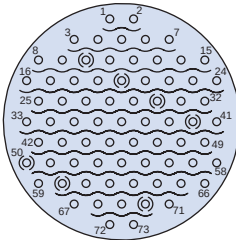
#22D • #16 ⊕
 #20 ⊖ #12 ●



Insert Arrangement	233-105 D38999	09-09	11-19	13-32	15-55
No. of Contacts		9	19	19	55
Contact Size		#23	#23	#23	#23
Service Rating		N	N	N	N

Contact Legend

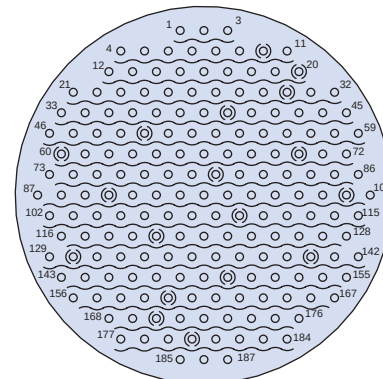
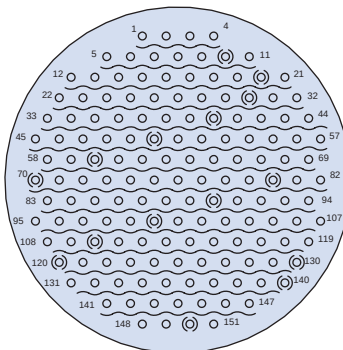
#22D • #16 ⊕
 #20 ⊖ #12 ●



Insert Arrangement	233-105 D38999	17-73	19-88	21-121
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 D38999	23-151	25-187
No. of Contacts		151	187
Contact Size		#23	#23
Service Rating		N	N

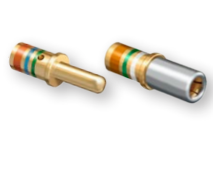
*Pending release of MIL-STD-1560C these contact arrangements are only available in Glenair Series 233-105

MIL-DTL-38999 Series III

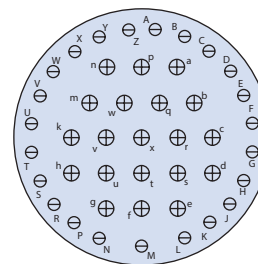
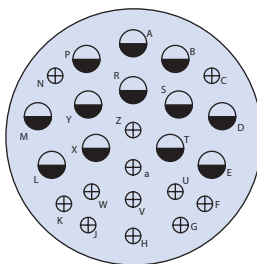


MIL-STD-1560 combo contact arrangements

Reference information

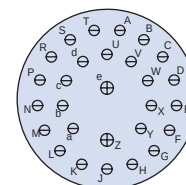
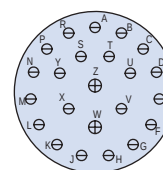
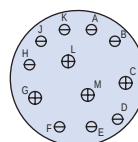
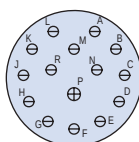
Combo Contact Arrangements						
Contact Size			Number of Contacts			
			#20	#16	#12	
Size #20 Contacts 7.5 Amp Max. Current #20-#24 AWG 	Size #16 Contacts 13 Amp Max. Current #16-#20 AWG 	Size #12 Contacts 23 Amp Max. Current #12-#14 AWG 	14	1		233-105
			8	4		D38999
			21	2		15-15
			26	2		15-97
	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

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



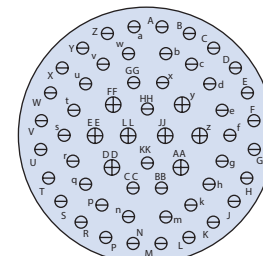
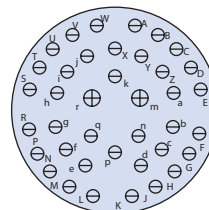
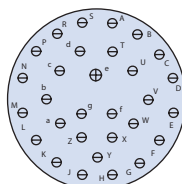
Insert Arrangement	233-105 D38999	25-24 J24	25-43 J43
No. of Contacts and Size		12X #12	12X #16
Service Rating		I	I

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



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

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

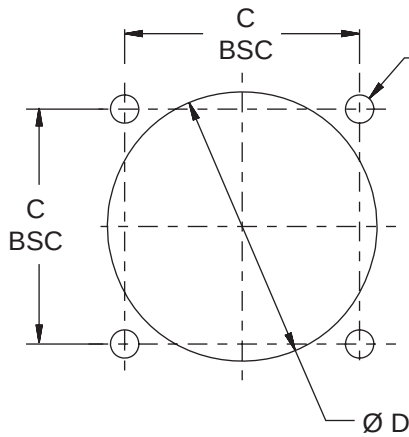


Insert Arrangement	233-105 D38999	19-30 F30	21-39 G39	25-4 J4
No. of Contacts and Size		1X #16	29X #20	2X #16
Service Rating		I	I	I

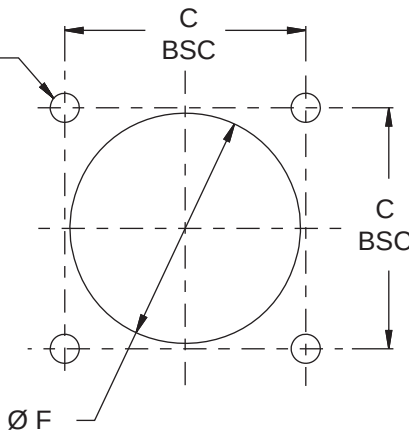
Recommended cut-out panel

Reference information

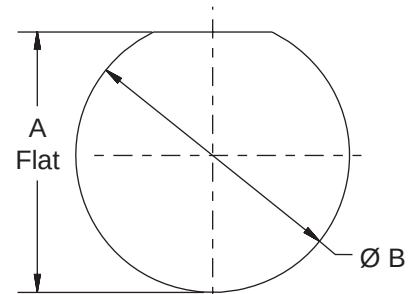
Recommended Cut-Out Panel



**Square Flange
Back Panel Mount**



**Square Flange
Front Panel Mount**

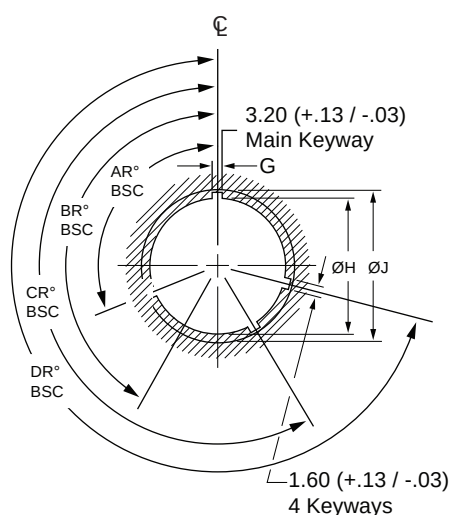


Jam Nut Mount

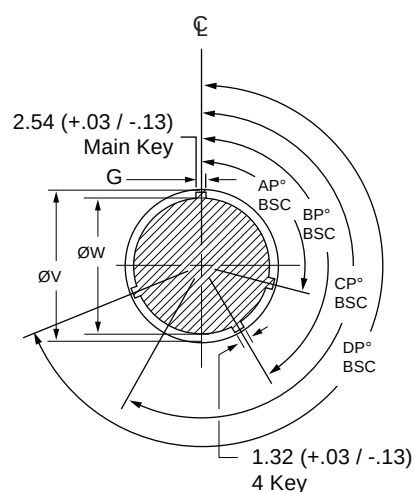
Panel Cut-Out Dimensions							
Shell Size Code	Shell Size	Jam Nut Mount		Square Flange Mount			
		A Flat	B Dia	C BSC	D Dia Min	E Dia Flange Holes	F Dia Min
A	9	.661/.654 (16.79/16.61)	.703/.693 (17.58/17.60)	.719 (18.26)	.656 (16.66)	.133/.123 (3.38/3.12)	.516 (13.12)
B	11	.771/.761 (19.58/19.33)	.835/.825 (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.

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 S = Socket, 500 cycles A = Pin insert, less contacts B = Socket insert, less 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)	✓
	MT		Ni-PTFE	✓
W	NF		Cadmium O.D. over electroless nickel (500 hr. salt spray)	✗
	ZR		Black zinc-nickel over electroless nickel	✓

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 Accomodation	
Contact Size	Wire Gauge
22D	#22 - #28
20	#20 - #24
16	#16 - #20
12	#12 - #14

NOTES

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

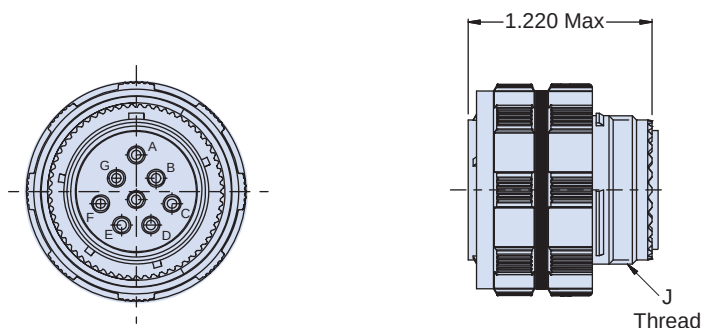
MIL-DTL-38999 Series III Environmental connectors

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

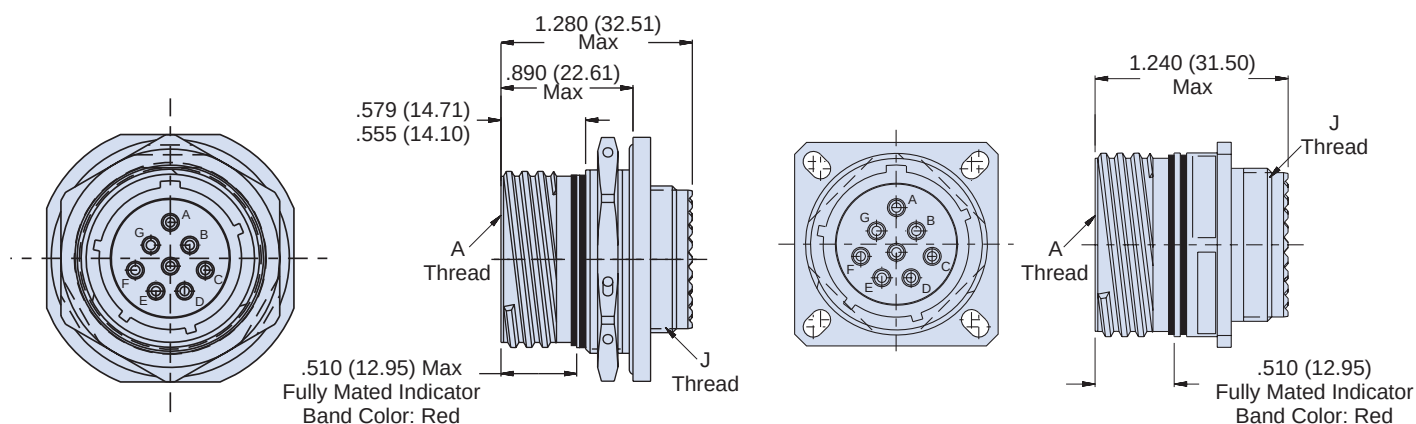


How To Order - Mil-Spec							
Sample Part Number	D38999/	20	W	A	35	P	N
Series / Basic Part No.	MIL-DTL-38999 Series III Environmental Connector						
Connector Style	20 = Wall mount receptacle 24 = Jam nut receptacle 26 = Plug						
Class (Material and Finish)	See Table I						
Shell Size Code	A, B, 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 S = Socket, 500 cycles A = Pin insert, less contacts B = Socket insert, less contacts						
Alternate Polarization	A, B, C, D, E, N = Normal						

PLUG WITH ACCESSORY THREADS



JAM NUT RECEPTACLE AND WALL MOUNT RECEPTACLE





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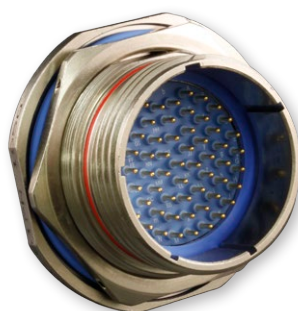
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QPL MIL-DTL-38999 CONNECTORS



D38999/26 Plug



D38999/24 Jam nut receptacle

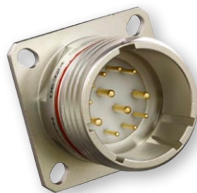


D38999/20 Wall mount receptacle

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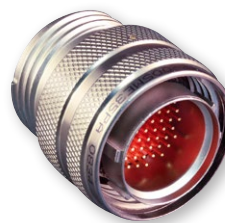


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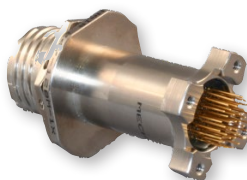
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insert arrangement



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contact insert arrangement



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