### Amphenol Aerospace

## HIGH VOLTAGE 38999 FOR NEXT GENERATION AIRCRAFT POWER NEEDS

PDS - 311



# High Voltage 38999 (HV38999) is an expansion of the MIL-DTL-38999 series to provide solutions for next generation aircraft power requirements.

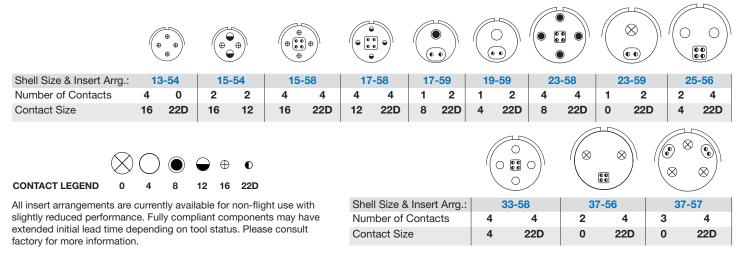
Future power distribution architecture is moving toward higher voltages beyond the capabilities of standard connectors. Through insert optimizations these specialty D38999s can safely carry high voltages and large currents at altitude while remaining partial discharge free to extend connector life.

#### **FEATURES & BENEFITS:**

- Meets/Exceeds applicable MIL-DTL-38999 specifications due to utilization of common design standards
- Available interlock circuitry utilizes last mate, first break sequence
- All MIL-DTL-38999 shell configurations/finishes available including our Dualok high vibration plug
- Utilizes existing AS39029 type silver plated power contacts including options for increased amperage and various termination styles
- Accommodates standard MIL-DTL-38999 accessories

Partial Discharge Free Operating Voltages of Mated Connectors								
		-	-					

ALTITUDE	Test Voltages D/C	Test Voltage A/C			
SEA LEVEL	3000V	2300V			
20,000 FT	2600V	1800V			
30,000 FT	2200V	1500V			
50,000 FT	1500V	1200V			



## HV38999 HOW TO ORDER



#### Complete steps 1-8 to create your part number

	1.	2.	3.	4.	5.	6.	7.	8.			
Connector Type Shell Style		Service Clas	ss Shell Size - Insert Arrangement	Contact Style	Contact Alternate M Type Position M		Modifica	lodifications			
HV 06		RF	13-54		P A (		(3D <sup>-</sup>	1)			
1. Connector Type			2. Sh	2. Shell Style**		3. 175°C Service Class					
HV	High Vol	tage 38999	00	Wall Mount Receptacle		Corrosion resistant olive drab cadmium plated alu-					
нус	0	tage Composite	01	Inline Receptacle	RW	<ul> <li>(Composite - 2000 hour dynamic salt spray)</li> <li>Durmalon plated, alternative to cadmium. Corro-</li> </ul>					
	38999		02	Box Mount Receptacle	DT						
	4. Shell Size -		06	Straight Plug		sion resistant, 500 hour extended salt spray					
Shell Siz	Arranger ze & Insert		56	DUALOK Plug	DZ	cadmium. 500 ho conductive					
Arrangements see page 1.		96	Plug with Integral Backshell		Electroless nickel plated aluminum or Composite,						
	5. Contact Style**		07	Jam Nut Receptacle	RF	48 hour salt spray (Composite - 2000 hour dynamic					
OMIT	Crimp /Les	ss Contacts	97	Reduced Flange Jam Nut Receptacle		salt spray) Corrosion resistant stainless steel, firewall, 500 hour salt spray					
S	Solder Cu	р	91		RK						
F	Female Thread Termination		6. Co	6. Contact Type		niewan, ooo nour sait spray					
М	Ruchar des			I "G" before contact type ignation for gold plated tacts RKN		Corrosion resistant stainless steel, non-firewall, 500			and the second		
В			contac			hour salt spray					
8. Modifications**		P	Pin Contacts	DI	Nickel plated, corrosion resistant steel, non-			(and the second			
P3D = 3D Printed, recommended for		r S S	Socket Contacts	RL	firewall, 500 hour salt spray						
fit checks and benchtop testing			Pin, Less Contacts		Nickel ploted, correction registent steel, framell, 50						
(3D1)	P3D Meta Standard	al Clip Insert, Shell	B	Socket, Less Contacts	RS	Nickel plated, corrosion resistant steel, firewall, 500 hour salt spray					
(3D3)	P3D Shell, P3D metal clip insert		H	High Performance Socket							
		, Standard Insert		RADSOK Socket	**Conta	**Contact factory for additional configurations/customiz					
(3D5)				ernate Position	Standard High Performance RADSOK						
(3D6)	P3D Shell					ontacts	Contacts		ntacts		



A, B, C, D, E

Omit for normal rotation parts.



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printed-in insert

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