

HIGH VOLTAGE 38999

FOR NEXT GENERATION AIRCRAFT POWER NEEDS

PDS - 311



High Voltage 38999 (HV38999) is an expansion of MIL-DTL-38999 developed 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:

- Designed to meet MIL-DTL-38999 mechanical and environmental performance
- Available safety 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 the higher current Temper Grip as well as busbar and threaded termination styles.
- Accommodates standard MIL-DTL-38999 accessories

Test Voltages							
ALTITUDE		oltages A/C //S)	PDIV Test Voltages A/C	PDIV Test Voltage D/C			
	Unmated	Mated	(RMS)				
SEA LEVEL	2600V	4500V	1550V	2000V			
20,000 FT		3850V	1250V	1700V			
30,000 FT	N/A	3700V	1100V	1400V			
50,000 FT		3000V	850V	1150V			



Standard Contacts				
Amps				
13				
23				
46				
80				
150				

High Performance Temper Grip Contacts			
Size	Amps		
-	-		
-	-		
8	65		
4	110		
0	220		

	RADSOK Contacts			
Size	Amps			
-	-			
-	-			
8	70			
4	120			
0	250			

HV38999 HOW TO ORDER



1.	2.	3.	4.	5.	6.	7.	8.
Connector Type	Shell Style	Service Class	Shell Size - Insert Arrangement	Contact Style	Contact Type	Alternate Position	Modifications
HV	06	RF	13-54		Р	A	(3D1)

Connec	tor Type	Shell Style	Serv	rice Class	Arrangement	Ì	Style	Type	
Н	V	06		RF	13-54			Р	
1. Conn	ector Ty	pe		2. Shell	Style**		3. 175°	C Service Cla	ISS
HV High Voltage 38999			00	Wall Mount Receptacle			Corrosion resistar aluminum or com		
HVC		tage Composite		01	Inline Receptacle			spray (Composite	
	38999			02	Box Mount Receptacle		ът [Durmalon plated,	alte

4. Shell Size -
Insert Arrangement

Shell Size & Insert Arrangements see below.

5. Contact Style**				
OMIT	Crimp /Less Contacts			
F	Female Thread Termination			
M	Male Thread Termination			
В	Busbar			

7. Alternate Position

8. Modifications**

Number of Contacts

Number of Contacts

Contact Size

Contact Size

(TPS)

A, B, C, D, E Omit for normal rotation parts.

P3D = 3D Printed, recommended for fit checks and benchtop testing			
(3D1)	P3D Metal Clip Insert, Standard Shell		
(TDC)	Touch Proof Tips		

(Pin contacts only)

2. S	2. Shell Style**				
00	Wall Mount Receptacle				
01	Inline Receptacle				
02	Box Mount Receptacle				
06	Straight Plug				
56	DUALOK Plug				
96	Plug with Integral Backshell				
07	Jam Nut Receptacle				
97	Reduced Flange Jam Nut Receptacle				
6. C	6. Contact Type				
Add "G" before contact type designation for gold plated contacts					
Р	Pin Contacts				
S	Socket Contacts				
Α	Pin, Less Contacts				

Socket, Less Contacts

Grip Socket **RADSOK Socket**

High Performance Temper

В

Н

	,	•
3. 17	5°C Service Class	
RW	Corrosion resistant olive drab cadmium plated aluminum or composite, 500 hour extended salt spray (Composite - 2000 hour dynamic salt spray)	
DT	Durmalon plated, alternative to cadmium. Corrosion resistant, 500 hour extended salt spray	
DZ	Black Zinc-Nickel alternative to cadmium. 500 hour salt spray, conductive	
RF	Electroless nickel plated aluminum or Composite, 48 hour salt spray (Composite - 2000 hour dynamic salt spray)	
RK	Corrosion resistant stainless steel, firewall, 500 hour salt spray	
RKN	Corrosion resistant stainless steel, non-firewall, 500 hour salt spray	
RL	Nickel plated, corrosion resistant steel, non-firewall, 500 hour salt spray	
RS	Nickel plated, corrosion resistant steel, firewall, 500 hour salt spray	
DS	AP-93 Tri-Nickel Alloy Plated Aluminum, 1000 hour dynamic salt spray	

**Contact factory for additional configurations/customization

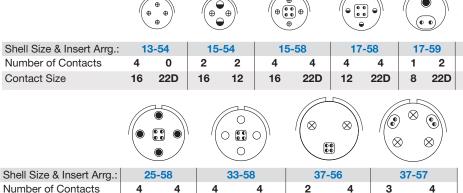
21-56

4

22D

2

factory for more information.



0



 \otimes

23-59

2

22D

1

 \bigcirc

2

0

4

22D

25-56

CONTACT LEGEND 12 16 22D Some insert arrangements may have extended initial lead time depending on tool status. Please consult

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

22D

0

AMPHENOL is a registered trademark of Amphenol Corporation.

8

22D

4

22D

©2021 Amphenol Corporation

REV: 10/10/2022

22D

1

2

22D