

# Amphenol Power Solutions

## Series KVTV

The KVTV connector series is a collaboration of the MIL-DTL-38999 and MIL-DTL-5015 technologies designed to push high amperage / voltage in harsh environments. The KVTV was originally driven by the need for military vehicles to power more systems while reducing their dependency on diesel fuels. Many of our commercial and hybrid 5015 connectors are no longer seen as viable solutions due to their design limitations for these applications. This newly designed connector series offers you the environmental and vibration standards of the MIL-DTL-38999 while utilizing the readily available 5015 inserts and rear accessories.

### Features / Benefits

#### MIL-DTL-38999 Series III Shells and Outer Coupling

- Providing Shell to shell bottoming and EMI banding for EMI/RFI protection.
- Environmental sealing which will meet the 38999 requirements for humidity and submersion testing.
- Will meet shock and vibration requirements of 38999
- Shell sizes 25 and larger allowing more options to carry higher power for your applications.
- Will come standard with over molded coupling nuts providing extra durability and grip.

#### MIL-DTL-5015 Series Inserts and Backshell Accessories

- Will be available in familiar 5015 patterns as well as some new patterns allowing for higher amperage / voltage requirements. (See Contact Arrangement Chart)
- Will come standard with a Silicone based insert material for higher CTI and service class, but will also be available with High Temperature Flouroelastomer or Neoprene giving some versatility in your applications while providing an operating temperatures rating from -65C up to 200C.
- Available with standard 5015 style back shells and rear accessories giving the extra sealing and support needed in a harsh environment.

### Customizable to Meet Your Needs

- Multiple contact styles and terminations will come standard in Crimp with available options for Solder, Pencil Clip, Internal Threaded, Tabbed with through hole, PCB and our RADSOK® technology.

### Multiple Finishes

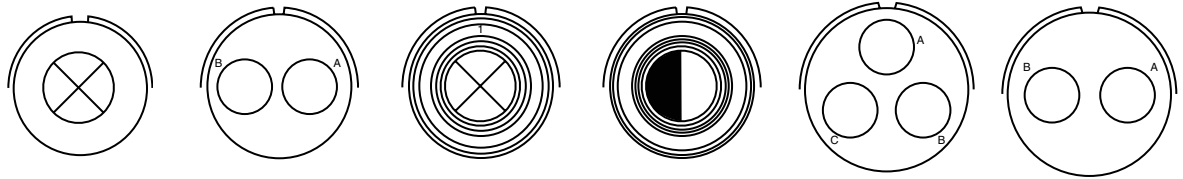
- Will be standard OD cadmium with available options including Durmalon, our Military qualified alternative to Cadmium.



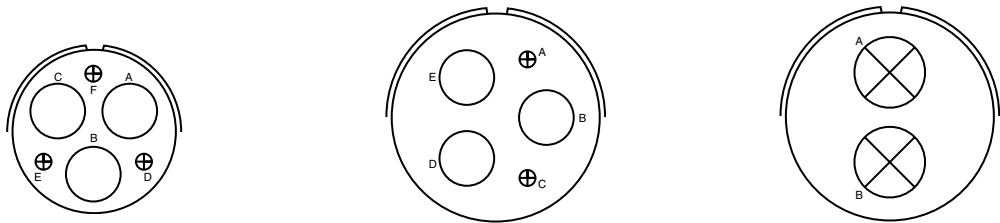
For Ordering Information call 607-563-5644 or email us at [power@amphenol-aa.com](mailto:power@amphenol-aa.com).

# Contact Arrangements Chart

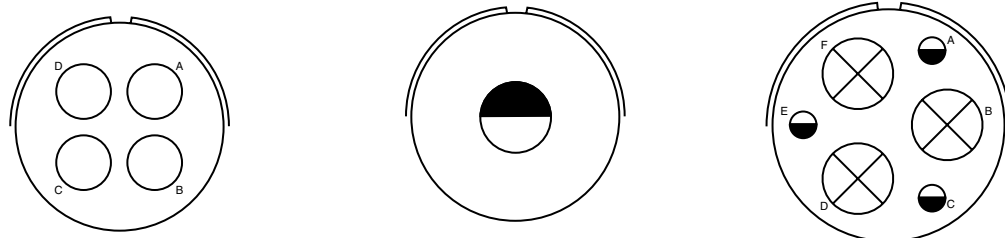
PDS-226



	22-7	24-9	24-AX	24-V1	28-6	28-7
Number of Contacts	1	2	1	1	3	2
Contact Size	0	4	4/0	2/0	4	4
Amperage Per	150	80	225	185	80	80
Total Amperage	150	160	225	185	240	160
Voltage Rating	1750VDC/1250VAC	700VDC/500VAC	700VDC/500VAC	700VDC/500VAC	1250VDC/900VAC	1250VDC/900VAC



	28-22		32-2		32-5
Number of Contacts	3	3	3	2	2
Contact Size	4	16	4	16	0
Amperage Per	80	13	80	13	150
Total Amperage	240	39	240	26	300
Voltage Rating	1250VDC/900VAC		1750VDC/1250VAC		1250VDC/900VAC



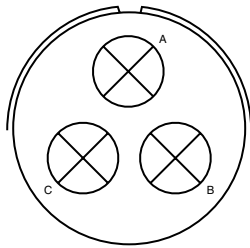
	32-17	32-AM	36-3	
Number of Contacts	4	1	3	3
Contact Size	4	4/0	0	12
Amperage Per	80	225	150	23
Total Amperage	320	225	450	69
Voltage Rating	1250VDC/900VAC	700VDC/500VAC	1250VDC/900VAC	



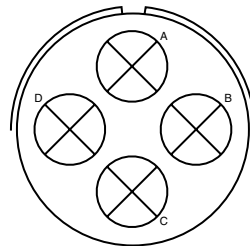
CONTACT LEGEND 16 12 8 4 0 2/0 4/0

# Contact Arrangements Chart

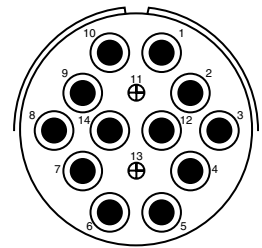
PDS-226



36-4



36-5



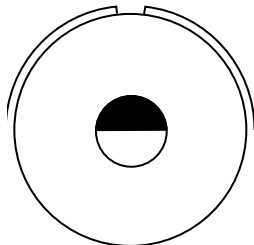
36-78

Number of Contacts  
Contact Size  
Amperage Per  
Total Amperage  
Voltage Rating

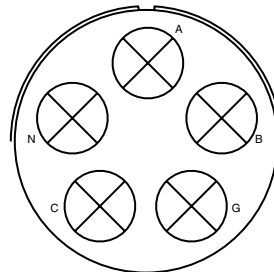
3  
0  
150  
450  
See Amphenol

4  
0  
150  
600  
700VDC/500VAC

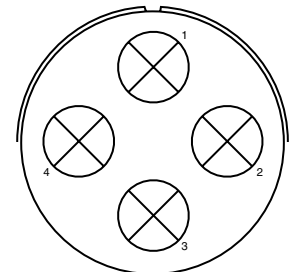
2      12  
16      8  
13      46  
26      552  
1250VDC/900VAC



36-97



40-5



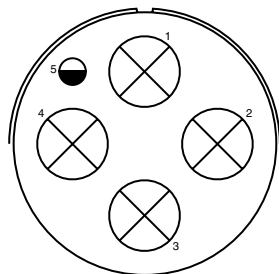
40-57

Number of Contacts  
Contact Size  
Amperage Per  
Total Amperage  
Voltage Rating

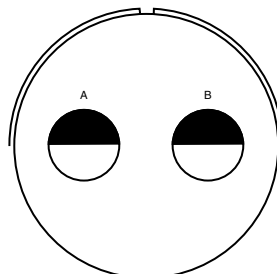
1  
4/0  
225  
225  
4200VDC/3000VAC

5  
0  
150  
750  
700VDC/500VAC

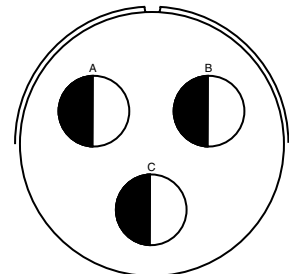
4  
0  
150  
600  
1750VDC/120VAC



40-75



40-AP



40-AV

Number of Contacts  
Contact Size  
Amperage Per  
Total Amperage  
Voltage Rating

4      1  
0      12  
150      23  
600      23  
1750VDC/1250VAC

2  
4/0  
225  
450  
1750VDC/120VAC

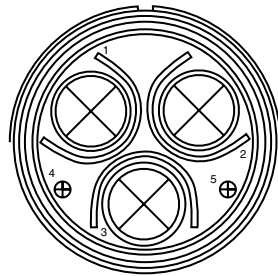
3  
0  
150  
450  
1250VDC/900VAC



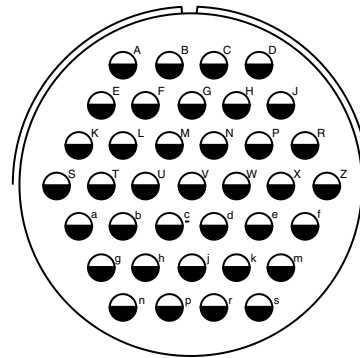
CONTACT LEGEND

16   12   8   4   0   2/0   4/0

# Contact Arrangements Chart



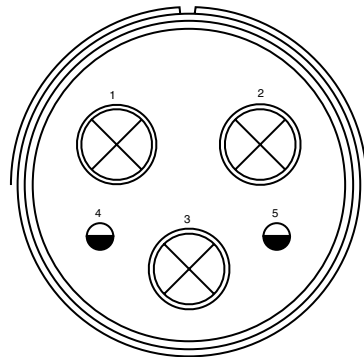
40-BP



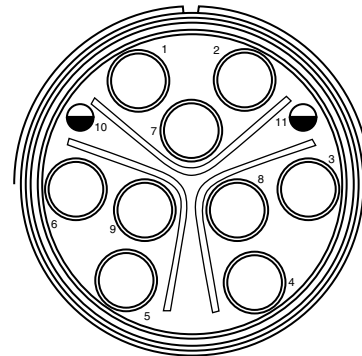
48-53

Number of Contacts	3	2
Contact Size	0	16
Amperage Per	150	13
Total Amperage	450	26
Voltage Rating	2450VDC/1750VAC	

Number of Contacts	37
Contact Size	12
Amperage Per	23
Total Amperage	444
Voltage Rating	1250VDC/900VAC



48-67



48-68

Number of Contacts	3	2
Contact Size	4/0	12
Amperage Per	225	23
Total Amperage	675	46
Voltage Rating	2450VDC/1750VAC	

Number of Contacts	9	2
Contact Size	4	12
Amperage Per	80	23
Total Amperage	720	46
Voltage Rating	2450VDC/1750VAC	



CONTACT LEGEND

16 12 8 4 0 2/0 4/0

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