Amphenol®
Commercial Air

More Voltage & Power

Interconnect Solutions for Electrification

MV&P POWER

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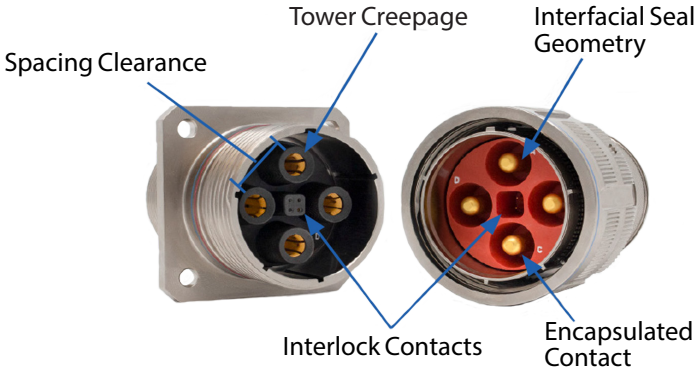
WHY HIGH VOLTAGE?

The world is gradually moving toward the electrification of everything. Consumer electric vehicles (EVs) have already made consistent progress toward mainstream adoption throughout the 2010s, while hybrid/electric military vehicles and electric vertical take-off and landing aircraft (eVTOL) are moving through development and inching toward common use. Homes, businesses, and buildings are seeing a rapid increase in the need for additional electric power, and the power grid is steadily being cycled off fossil fuels in favor of renewable energy.

These requirements will be especially apparent with eVTOL applications, for instance, which are slated to debut in major cities around the world this decade. eVTOLs are more power-hungry than their EV counterparts, with the nascent industry seeking batteries with double the standard energy density (450 watt-hours per kilogram). Meanwhile, the military is seeking an electric version of the Joint Light Tactical Vehicle (JLTV) — its 11-ton replacement of the Humvee that will have extensive power requirements of its own if adapted to an electric powertrain — and anticipates fielding fleets of electric vehicles in the future. Manufacturers require durable interconnect systems capable of handling these heavy power outputs.

From a technical perspective, to increase power output and meet growing industry goals, either the system voltage or current must be increased. Our contact technologies have been optimized over the years to raise current capacity while maintaining conductor size. However, until recently voltage requirements have remained relatively steady. Material and geometric enhancements have allowed us to safely expand the voltage capabilities of our connectors, even at altitude, while continuing to offer the robust use-life required for essential electrical systems. These improvements help to drive available power higher while avoiding significant increases in the weight and size of electrical systems.

In addition, design considerations have been made to accommodate power systems running at high frequencies and with large current excursions even at high operating temperatures. The potential of partial discharge has been mitigated through the use of sealing techniques as well as geometry enhancements to both insulators and conductors. Further improvements to discharge performance can be made through the full optimization of wire termination within the Amphenol family.



HIGH VOLTAGE 38999

TRADITIONAL 38999

Amphenol's selection of high-power and high-voltage connectors has been designed to meet the power demands of electric military vehicles, eVTOL aircraft, and that of an all-electric world head-on. We offer high-power and high-voltage connectors with our unique power-handling technologies based around a variety of specifications, including MIL-DTL-38999, MIL-DTL-5015, MGT-5015, and more.

APPLICATIONS

This collection of electric interconnects and contacts are designed for use in a variety of high-voltage and high-current applications, including:

- Hybrid/electric military vehicles
- Electric vertical takeoff and landing (eVTOL) aircraft
- Next-generation electric commercial aircraft, including business and regional jets
- Drones and UAVs
- Radar/surveillance systems
- Naval systems
- Laser power systems
- Spacecraft

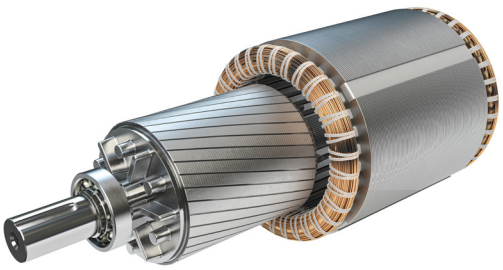
SYSTEMS/COMPONENTS:

Energy storage, propulsion systems (primary power):

- Batteries
- Generators
- Power distribution units (PDU)
- Inverters
- Rectifiers
- Motors

Control surfaces, avionics, navigational equipment, environmental controls, in-flight entertainment (secondary power):

- Converters
- Inverters
- Actuators



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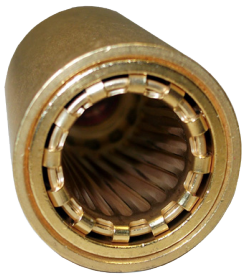
CONTACTS

Amphenol offers a selection of contacts in a variety of sizes utilizing proprietary technologies to facilitate greater current carrying capacity and the ability to withstand the intense temperatures of high-amp applications. All power contacts leverage the high conductivity alloys and precision machining advancements incorporated initially in the Amphenol High Current Pin Contacts. These optimizations reduce power loss in your application and can improve ampacity by 15-25% through efficiency gains.



- Available with gold or silver plating
- Alternate termination types such as busbar and male/female threaded available for many connectortypes
- Optional touch proof tips provide an IP2X rating promoting operator safety for applicable connector series
- Crimp contacts optimized to accept an expanded range of wire diameters and types

RADSOK SOCKET CONTACT

RADSOK® contacts can handle up to 250 amps at size-0 contacts compared to 150 amps for size-0 mil-spec type standard sockets. RADSOK contacts also feature exceptionally high mating cycle durability and can withstand 20,000 mating cycles with standard silver plating. RADSOK contacts feature a geometric design that ensures a larger distribution of normal forces across the mating pin. These are ideal for high-amperage applications and are already available throughout the Amphenol product line for industrial, automotive, medical, and other industries.

- Highest current carrying capacity at lower temperatures, limited to 150C maximum temperature
- Maintains low insertion forces and high conductivity throughout its normal lifecycle

TEMPER-GRIP SOCKET CONTACT

Temper-Grip contacts, featuring low electrical resistance, are designed with harsh environments and high temperatures in mind. Temper-Grips can withstand up to 220 amps in a size-0 contact and are capable of operating in temperatures of more than 200 degrees Celsius. Temper-Grips take advantage of a "napkin-ring" design, first utilized in engine connectors, which prevents the copper tines from "relaxing" at higher temperatures, thus maintaining a greater conductive area in all situations.

- Highest current carrying capacity at higher operating temperatures
- Superior performance in high-vibration applications

Standard Contacts	
Size	Amps
16	13
12	23
8	46
4	80
0	150

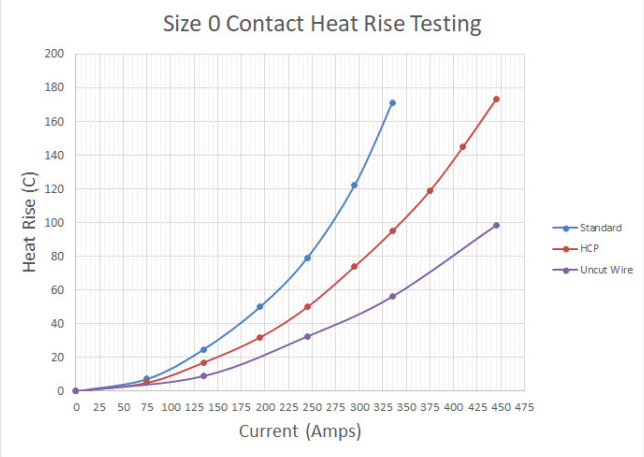
High Performance Temper Grip Contacts	
Size	Amps
-	-
-	-
8	65
4	110
0	220

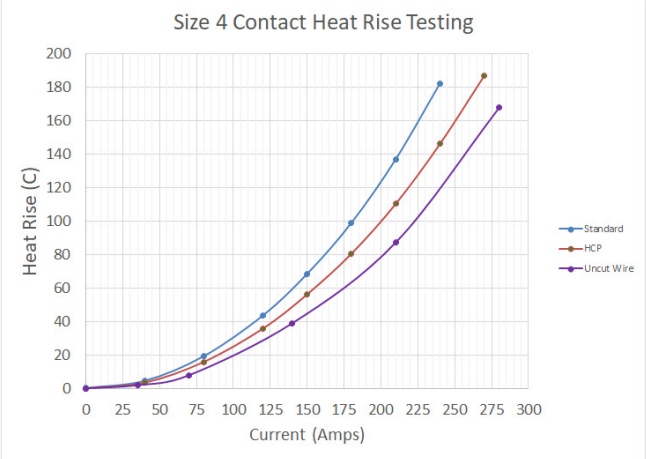
RADSOK Contacts	
Size	Amps
-	-
-	-
8	70
4	120
0	250

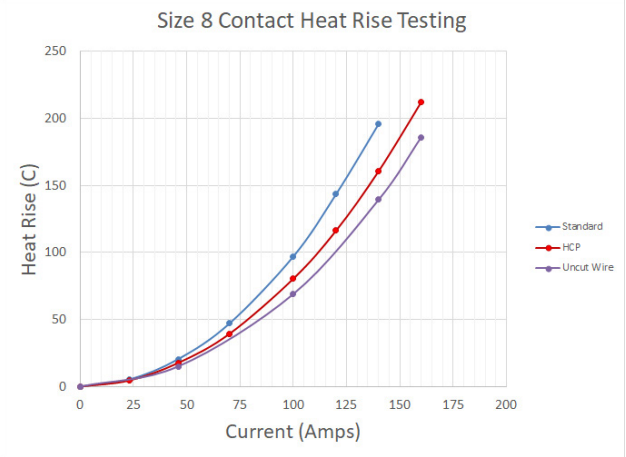
CONTACT HEAT RISE DATA

The data below shows expected heat rise for High Performance Temper Grip Contacts (sizes 0, 4, & 8) and for High Performance Contacts (sizes 12 & 16) compared to an ideal case, uncut wire (wire gauge matches contact size). The Standard Contacts meet mil-spec requirements but lack optimizations to reduce resistance and thus heat rise. Data is provided for designer justification to operate beyond the typical 40C heat rise limits where appropriate.

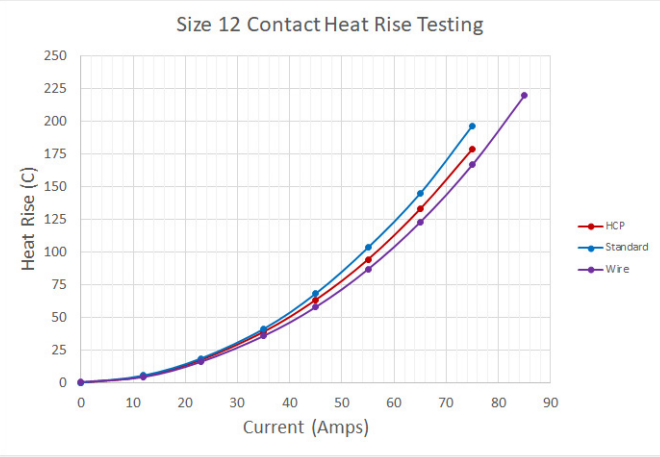
HIGH PERFORMANCE TEMPER GRIP CONTACTS

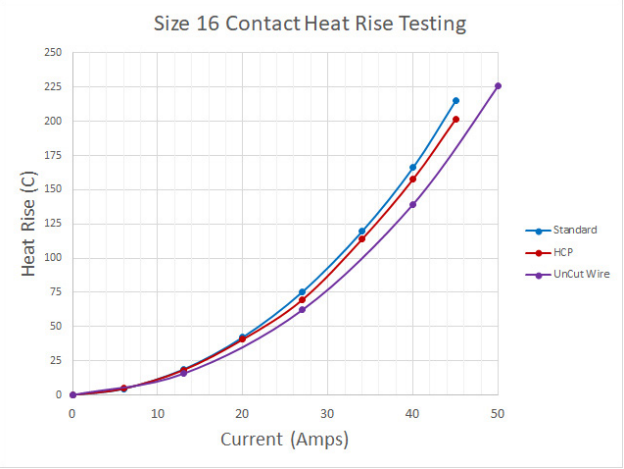






HIGH PERFORMANCE CONTACTS





Test data collected using bare contact mated pairs in still, room temperature air. Current applied until contacts reached thermal stability. Data shown is not de-rated. Testing recommend in actual application to account for cooling effects, current excursions, contact wear, etc. Note that the establishment of electrical safety factors is left entirely up to the system designer, as they are in the best position to know what characteristics can be expected in a particular system.

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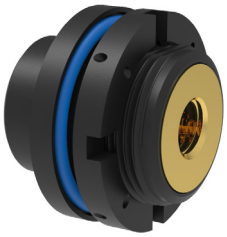
CIRCULAR CONNECTORS AND DERIVATIVES

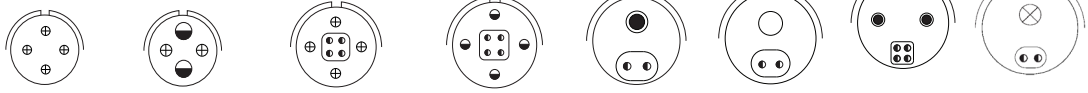
The collection of power connectors was designed to improve and expand upon the electrical performance of existing mil-spec type connectors. Utilizing our advanced insert and contact technologies, we are able to increasethe operating voltages at altitude as well as operating currents while maintaining the robust environmental and mechanical performance already offered in our qualified military specification shells.



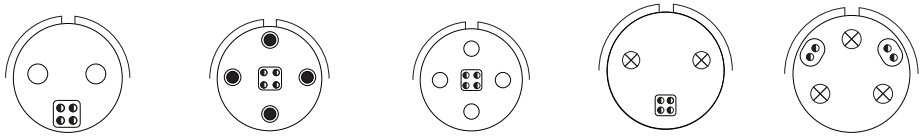
- Utilizing familiar military specification shell types, materials, and finishes
- Compatible with high performance contacts detailed on pages 5 & 6

CUSTOM DERIVATIVES IN DEVELOPMENT:

- Manual Service Disconnect (MSD) - Three stage plug for system maintenance
- Bulkhead Feedthrough - Receptacle installed between sealed/unsealed areas accepting plugs on both sides
- Rack and Panel - Blind mate connection with float mount functionality (below left)
- Dualok® - Vibration resistant plug prevents unintended disengagement during operation (below right)
- PCB Mount - Contacts with tails for soldering and shells available with threaded PCB mounting points
- Feedthrough - Customizable connector style with bolted termination, and optimized size/ weight for electrical performance (above right)



Shell Size & Insert Arrg.:	13-54		15-54		15-58		17-58		17-59		19-59		21-56		23-59	
Number of Contacts	4	0	2	2	4	4	4	4	1	2	1	2	2	4	1	2
Contact Size	16	22D	16	12	16	22D	12	22D	8	22D	4	22D	8	22D	0	22D

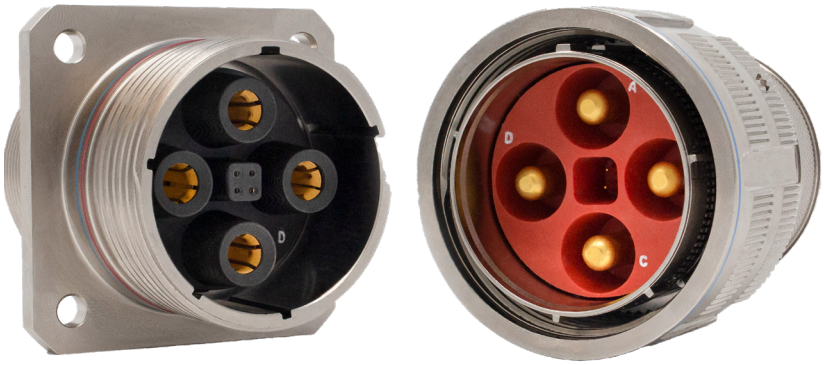


Shell Size & Insert Arrg.:	25-56		25-58		33-58		37-56		37-57	
Number of Contacts	2	4	4	4	4	4	2	4	3	4
Contact Size	4	22D	8	22D	4	22D	0	22D	0	22D

**Some insert arrangements may have extended initial lead time depending on tool status.
Please consult factory for more information.

CONTACT LEGEND 0 4 8 12 16 22D

HIGH VOLTAGE 38999



High Voltage 38999 (HV38999) is an expansion of MIL-DTL-38999 type connectors developed to provide solutions for next generation 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 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 socket and busbar/threaded termination styles.
- Accommodates standard MIL-DTL-38999 accessories

Test Voltages (Pre-Production Arrangement 13-54)*				
ALTITUDE	DWV Test Voltages A/C (RMS)		PDIV Test Voltages A/C (RMS)	PDIV Test Voltage D/C
	Unmated	Mated		
SEA LEVEL	2600V	4500V	1550V	2000V
20,000 FT	N/A	3850V	1250V	1700V
30,000 FT		3700V	1100V	1400V
50,000 FT		3000V	850V	1150V

*13-54 arrangement excepted to be lowest rated arrangement. Electrical data for other arrangements available soon

**Note that the establishment of electrical safety factors is left entirely up to the system designer as they are in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular system

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HV38999 HOW TO ORDER

1.	2.	3.	4.	5.	6.	7.
Connector Type	Shell Style	Service Class	Shell Size - Insert Arrangement	Crimp Termination	Alternate Positions	Modifications
HV	97	DZ	25-56	GH		(RDG)
HV	06	RF	13-54	P	A	

1. Connector Type

HV	High Voltage 38999
HVC	High Voltage Composite 38999***

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

3. 175°C Service Class

RW	Olive Drab Cadmium Plated Aluminum (500 Hour Salt Spray) or Composite (2000 Hour Salt Spray)	
DT	Durmalon Plated Aluminum (500 Hour Salt Spray)	
DZ	Black Zinc-Nickel Plated Aluminum (500 Hour Salt Spray)	
RF	Electroless Nickel Plated Aluminum (48 Hour Salt Spray) or Composite (2000 Hour Salt Spray)	
RK	Passivated Stainless Steel, Firewall (500 Hour Salt Spray) ****	
RKN	Passivated Stainless Steel, Non-Firewall (500 Hour Salt Spray)	
RL	Nickel Plated, Passivated Stainless Steel, Non-Firewall (500 Hour Salt Spray)	
RS	Nickel Plated, Passivated Stainless Steel, Firewall (500 Hour Salt Spray) ****	
DS	AP-93 Tri-Nickel Alloy Plated Aluminum (1000 Hour Salt Spray)	

4. Shell Size - Insert Arrangement**

Shell Size & Insert Arrangements on page 7

5. Crimp Termination

Add "G" before contact type designation for gold plated contacts

P	Pin Contacts
S	Socket Contacts
A	Pin, Less Contacts
B	Socket, Less Contacts
H	High Performance Temper Grip Socket
R	RADSOK Socket

6. Alternate Positions

	Blank for normal rotation
A	A rotation
B	B rotation
C	C rotation
D	D rotation
E	E rotation

7. Modifications**

P3D = 3D Printed, recommended for fit checks and benchtop testing

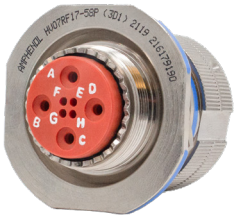
(3D1)	P3D Metal Clip Insert, Standard Shell
(TPS)	Touch Proof Tips (Pin contacts only)
(RDG)	Reduced Grommet*

*Provides compatibility for size 0 contacts with 2awg, size 4 contacts with 6awg, and size 8 contacts with 10awg. Crimp well reducer bushings are included.

**Contact factory for additional configurations/customization

***Available for insert arrangements 13-54, 15-54, 15-58 and 17-58

**** Contact factory for firewall performance



HV38999 HOW TO ORDER- ALTERNATE RECEPTACLE TERMINATION

1.	2.	3.	4.	5.	6.	7.	8.
Connector Type	Shell Style	Service Class	Shell Size - Insert Arrangement	Contact Style	Contact Type	Alternate Positions	Modifications
HV	02	RF	25-56	F	P	A	(MTT)
HV	27	RW	37-57	B	R		

1. Connector Type

HV	High Voltage 38999

2. Shell Style**

02	Box Mount Receptacle
27	Jam Nut Box Mount
97	Reduced Flange Jam Nut Receptacle

3. 175°C Service Class

RW	Olive Drab Cadmium Plated Aluminum (500 Hour Salt Spray)	
DT	Durmalon Plated Aluminum (500 Hour Salt Spray)	RoHS
DZ	Black Zinc-Nickel Plated Aluminum (500 Hour Salt Spray)	RoHS
RF	Electroless Nickel Plated Aluminum (48 Hour Salt Spray)	RoHS
RK	Passivated Stainless Steel, Firewall (500 Hour Salt Spray) ***	RoHS
RKN	Passivated Stainless Steel, Non-Firewall (500 Hour Salt Spray)	RoHS
RL	Nickel Plated, Passivated Stainless Steel, Non-Firewall (500 Hour Salt Spray)	RoHS
RS	Nickel Plated, Passivated Stainless Steel, Firewall (500 Hour Salt Spray)***	RoHS
DS	AP-93 Tri-Nickel Alloy Plated Aluminum (1000 Hour Salt Spray)	RoHS

**Contact factory for additional configurations/customization
***Contact factory for firewall performance

4. Shell Size - Insert Arrangement**

Shell Size & Insert Arrangements on page 7

5. Contact Style**

F	Female Thread Termination
M	Male Thread Termination
B	Busbar

6. Contact Type

Add "G" before contact type designation for gold plated contacts

P	Pin Contacts
S	Socket Contacts
H	High Performance Temper Grip Socket
R	RADSOK Socket

7. Alternate Positions

	Blank for normal rotation
A	A rotation
B	B rotation
C	C rotation
D	D rotation
E	E rotation

8. Modifications**

P3D = 3D Printed, recommended for fit checks and benchtop testing

(3D1)	P3D Metal Clip Insert, Standard Shell
(TPS)	Touch Proof Tips (Pin contacts only)
(MTT)	Termination With Metric Threading

Termination Thread Size*

Contact Size	Imperial	Metric
8	4-40 UNC	M3 x 0.5
4	8-32 UNC	M4 x 0.7
1/0	10-32 UNF	M5 x 0.8

*Default thread type is imperial. Use (MTT) mod code for metric

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BAYONET CONNECTORS

QUICK-LOK

The QUICK-LOK product line is a descendant of the HV38999 product profile which is designed to provide solutions for next generation power requirements. QUICK-LOK offers a bayonet coupling mechanism which allows for quick, ¼ turn mating, with confirmation of a full mate via an audible indication when the bayonet pins lock into position.

HVGT

The HVGT connector series, with reverse bayonet coupling, packages the high voltage/power HV38999 inserts into a ruggedized shell with roots in the military market. The insert technology allows for higher power density per shell when compared to traditional MIL-DTL-5015 arrangements. Extended creepage paths for high voltage operation may also provide a larger safety factor in environments with a high degree of pollution.

FEATURES & BENEFITS:

- Audible and tactile feedback when fully mated
- Assurance of fully mated connectors in visually restricted areas
- Available safety interlock circuitry utilizes last mate, first break sequence
- Designed to meet applicable mechanical and environment requirements for aircraft and military ground vehicles

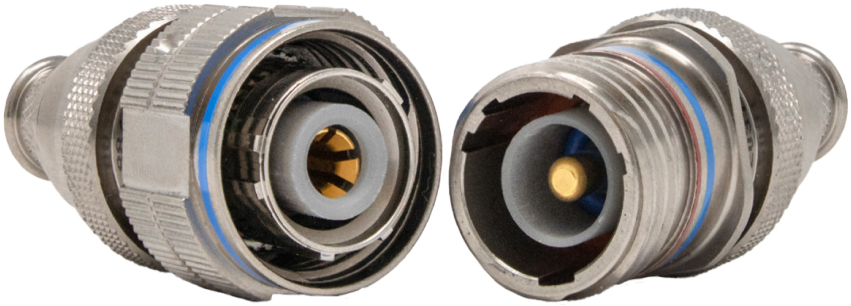
HV38999 Test Voltages (Pre-Production Arrangement 13-54)*				
ALTITUDE	DWV Test Voltages A/C (RMS)		PDIV Test Voltages A/C (RMS)	PDIV Test Voltage D/C
	Unmated	Mated		
SEA LEVEL	2600V	4500V	1550V	2000V
20,000 FT	N/A	3850V	1250V	1700V
30,000 FT		3700V	1100V	1400V
50,000 FT		3000V	850V	1150V

*13-54 arrangement excepted to be lowest rated arrangement. Electrical data for other arrangements available soon

**Note that the establishment of electrical safety factors is left entirely up to the system designer as they are in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular system

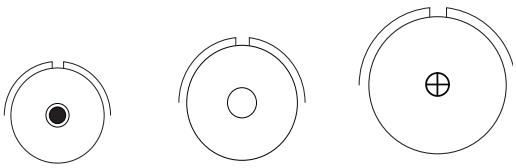
HIGH VOLTAGE 38999 SOLO

Space Saving Single Pole Form Factor



HV38999 SOLO is a sibling product of the HV38999 Product Series. This adaption prioritizes weight and size in a single pole form factor while maintaining insert optimizations for high voltage and power.

- Designed to meet MIL-DTL-38999 mechanical and environmental performance
- All MIL-DTL-38999 shell materials/finishes available including composites and our high vibration Dualok plug
- Accommodates contact sizes 8, 4, and 0 from page 5 & 6
- Product series includes shield termination backshell reducing the required part numbers
- Provides robust environmental performance for large cables with integral dynamic o-ring sealing



Shell Size & Insert Arrg.:	11-51	13-51	17-51
Number of Contacts	1	1	1
Contact Size	8	4	0

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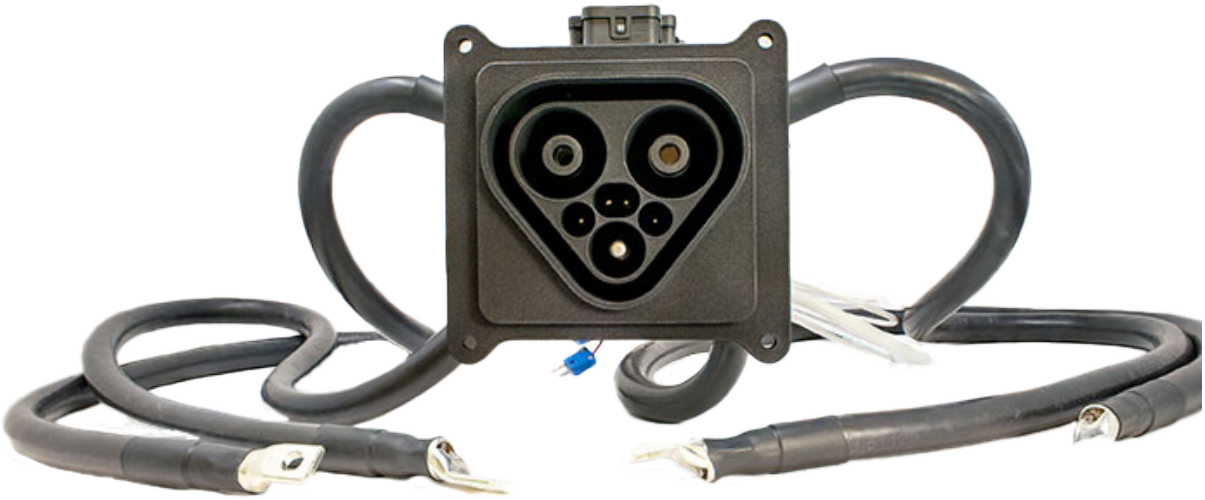
MEGAWATT CHARGING SYSTEM

For Next Generation Vehicle Charging Requirements



The Megawatt Charging System (MCS) is an interconnect system defined by electrification industry leaders designed to deliver the high voltages and powers from ground infrastructure to energy storage systems in electric/hybrid aircraft and ground vehicles.

- Ruggedized MCS inlet for aerospace/military applications will coincide with a future SAE specification
- Ground charging plug and cable assembly designed and built by the Amphenol Industrial Group

THREE LEVELS OF ELECTRICAL PERFORMANCE:

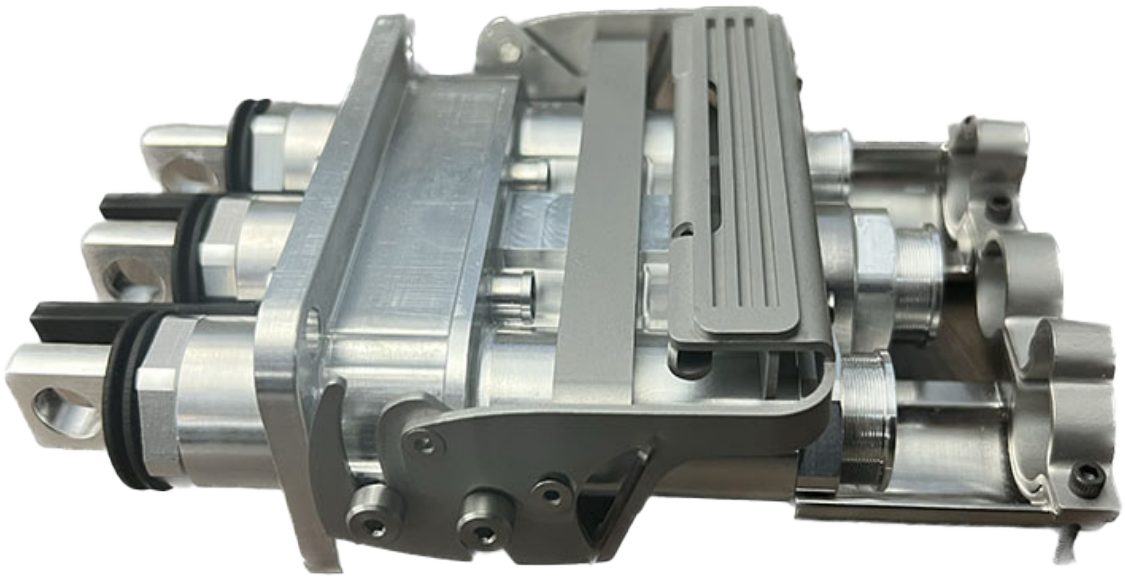
- Level I: 1250Vdc, 350A
- Level II: 1250Vdc, 1000A (cooled plug)
- Level III: 1250Vdc, 3000A (cooled plug and inlet)

INLET CONNECTOR KEY FEATURES:

- Communication and interlock functionality via dedicated contacts
- Programmable LEDs for charging status
- Integral actuator to prevent disengagement during charging
- Flexible main pole termination solutions
- Utilizes specialized Amphenol technology to increase inlet mating cycles up to 100X compared to mil-spec connectors

VOLTARIUS

Ruggedized High Power Interconnect



Voltarius is a high voltage, latch assisted connector based off the Amphenol Industrial Powerlok connector with upgrades to enhance performance for military and aerospace applications. These aluminum connectors are optimized for larger conductor sizes in single, double, and triple pole configurations while maintaining essential safety features such as touch proof contacts and interlock circuitry.

KEY FEATURES

- Receptacle can be configured as a drop-in replacement for the Powerlok G2 connector
- Design mitigates partial discharge for operation with high voltages at altitude (1000V at 30,000 ft expected)
- 250A rated contact provisioned for 6awg to 2/0awg (see page 6 for derating)
- Designed to meet applicable mechanical and environmental requirements for aircraft and military vehicles
- Metal latch with secondary locking ensures rigid shell to shell bottoming
- 6 contact pass-through last mate, first break safety interlock circuitry integral to design (muilt-pole only)
- Independent shield termination provisions for interlocks and power poles
- Dust caps and strain relief hardware available

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VOLTARIUS PLUG- HOW TO ORDER

1.	2.	3.	4.	5.	6.	7.	8.	9.
Connector Type	Shell Style	Service Class	Number of Poles	Cable Size	Contact Type	Alternate Rotations	Interlocks	Mod Code
VT	06	DZ	2-	320	H	N	L	(STR)

1. Connector Type

VT	Voltarius

2. Shell Style

06	Straight Plug

4. Poles

1-	Single**
2-	Double
3-	Triple

5. Cable Size

306	6 awg
304	4 awg
302	2 awg
301	1 awg
310	1/0 awg
320	2/0 awg

3. Service Class

DW	Olive Drab Cadmium Plated Aluminum (500 Hour Salt Spray)	
DT	Durmalon Plated Aluminum (500 Hour Salt Spray)	RoHS
DZ	Black Zinc-Nickel Plated Aluminum (500 Hour Salt Spray)	RoHS
DR	Electroless Nickel Plated Aluminum (48 Hour Salt Spray)	RoHS
DS	AP-93 Tri-Nickel Alloy Plated Aluminum (1000 Hour Salt Spray)	RoHS

6. Contact Type

H	High Performance Temper Grip Socket

7. Alternate Rotations

N	Normal Rotation*
A	A Rotation
B	B Rotation
C	C Rotation
D	D Rotation
E	E Rotation

*For multi-pole configurations use "N" (user configurable rotations)

8. Interlocks

L	With Interlocks**
N	Less Interlocks

**Single pole currently only available less interlocks. Multi-pole includes 6 interlocks per module

9. Mod Code

(STR)	Strain Relief (relies on cable sealing diameter for size)

VOLTARIUS RECEPTACLE- HOW TO ORDER

1.	2.	3.	4.	5.	6.	7.	8.	9.
Connector Type	Shell Style	Service Class	Number of Poles	Shell/ Contact Size	Contact Termination	Termination Size	Alternate Rotations	Interlocks
VT	02	DZ	2-	3	Z	1	N	L

1. Connector Type	
VT	Voltarius

2. Shell Style	
02	Flange Mount Receptacle

3. Service Class		
DW	Olive Drab Cadmium Plated Aluminum (500 Hour Salt Spray)	
DT	Durmalon Plated Aluminum (500 Hour Salt Spray)	
DZ	Black Zinc-Nickel Plated Aluminum (500 Hour Salt Spray)	
DR	Electroless Nickel Plated Aluminum (48 Hour Salt Spray)	
DS	AP-93 Tri-Nickel Alloy Plated Aluminum (1000 Hour Salt Spray)	

4. Poles	
1-	Single**
2-	Double
3-	Triple

5. Shell/Contact Size	
3	250A Rated Contact

6. Contact Termination	
Z	Through-hole***
T	Threaded Busbar Pin
F	Female Threaded Termination Pin
M	Male Thread Termination Pin

*** Through-hole accepts screw with listed thread

7. Termination Size	
1	M6X1-7H
3	M8X1.25-7H
4	M10X1.5-7H
B	.250-20UNC
D	.375-16UNC
E	.4375-14UNC

9. Interlocks	
L	With Interlocks**
N	Less Interlocks

**Single pole currently only available less interlocks. Multi-pole includes 6 interlocks per module

8. Alternate Rotations	
N	Normal Rotation*
A	A Rotation
B	B Rotation
C	C Rotation
D	D Rotation
E	E Rotation

*For multi-pole configurations use "N" (user configurable rotations)

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