

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 (multi-pole only)
- Independent shield termination provisions for interlocks and power poles
- Dust caps and strain relief hardware available

VOLTARIUS PLUG- HOW TO ORDER



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

1. Connector Type

VT	Voltarius
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2. Shell Style

06	Straight Plug
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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)	
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)	

6. Contact Type

H	High Performance Temper Grip Socket
R	Radsok 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



VOLTARIUS RECEPTACLE- HOW TO ORDER



1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Connector Type	Shell Style	Service Class	Number of Poles	Shell/Contact Size	Contact Termination	Termination Size	Alternate Rotations	Interlocks	Mod Code
VT	02	DZ	2-	3	Z	1	N	L	(STR)

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

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

*** Through-hole accepts screw with listed thread

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



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

10. Mod Code	
(STR)	Strain Relief (relies on cable sealing diameter for size)

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