

# VOLTARIUS

## Ruggedized High Power Interconnects

PDS - 327



Voltarius is a high power interconnect optimized for higher voltages. This connector series was designed to provide performance up to 1000Vdc and 450A with proven RADSOK® technology. It also provides essential safety features such as interlock circuitry and a secondary locking mechanism.

### KEY FEATURES

- Voltage Rating: 1000Vdc at sea level
- Sealing: IP67 (unmated) & IP69K (mated)
- Temperature range: -40°C/125°C
- Available in single pole or multi-pole arrangements
- Full 360 degree shielding with integral shield termination
- Safety interlock circuitry utilizes last mate, first break sequence
- Busbar and threaded termination standard with the receptacle
- Plugs available in straight or right angle orientations

### FUTURE DEVELOPMENTS

Material upgrades and geometry optimizations will support:

- Working voltage target of 1200Vac/1700Vdc at 30,000 ft, partial discharge free
- Operating temperature range: -40°C to 180°C
- Improved latching functionality

Cable Size		Recommended Cable Outer Diameter	Current Rating (Based on Contact Size)
1 awg	50 mm <sup>2</sup>	0.575 in - 0.598 in	250A
2/0 awg	70 mm <sup>2</sup>	0.657 in - 0.681 in	
3/0 awg	95 mm <sup>2</sup>	0.768 in - 0.799 in	450A
4/0 awg	120 mm <sup>2</sup>	0.874 in - 0.906 in	





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## How to Order

1. Connector Type	2. Shell Style & Contact	3. Service Class	4. Number of Poles	5. Cable Size	6. Contact Termination	7. Alternate Rotations	8. Interlocks	9. Mod Code
<b>VT</b>	<b>02P</b>	<b>FL</b>	<b>2-</b>	<b>20</b>	<b>Z</b>	<b>N</b>		<b>(V01)</b>

1. Connector Type	
<b>VT</b>	Voltarius

2. Shell Style & Contact	
<b>02P</b>	Flange Mount Receptacle with Pin Contacts
<b>06R</b>	Straight Plug with RADSOK® Sockets*
<b>09R</b>	Right Angle Plug with RADSOK® Sockets*

3. Service Class		
<b>FL</b>	Grey Zinc-Nickel Plated Aluminum <sup>^</sup>	
<b>RW</b>	Olive Drab Cadmium Plated Aluminum	
<b>DT</b>	Duralon Plated Aluminum	
<b>DZ</b>	Black Zinc-Nickel Plated Aluminum	
<b>RF</b>	Electroless Nickel Plated Aluminum	

<sup>^</sup> Currently available version

4. Poles	
<b>1-</b>	Single
<b>2-</b>	Double
<b>3-</b>	Triple

5. Cable Size	
<b>01</b>	1 awg
<b>20</b>	2/0 awg
<b>30</b>	3/0 awg**
<b>40</b>	4/0 awg**

\*\* Available in single pole only

6. Contact Termination	
<b>C</b>	Crimp, Socket Contact Only*
<b>Z</b>	Busbar
<b>T</b>	Threaded Busbar
<b>F</b>	Female Thread Termination
<b>M</b>	Male Thread Termination

\* Socket contact available only with crimp termination

7. Alternate Rotations	
<b>N</b>	Normal Rotation
<b>A</b>	A Rotation
<b>B</b>	B Rotation
<b>C</b>	C Rotation
<b>D</b>	D Rotation
<b>E</b>	E Rotation

Single pole available in all rotations  
Double pole available in N, A, B, & C  
Triple pole available in N & A

8. Interlocks	
	Leave Blank for Interlocks
<b>L</b>	Less Interlocks

9. Mod Code	
<b>(V01)</b>	Voltarius Classic <sup>^^</sup>
<b>(V20)</b>	450A Rated 2/0 Contact (Larger Shell Size)**

<sup>^^</sup> Currently available version. Contact factory for version with improved electric performance at altitude and increased temperature rating.

