

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 ²	0.575 in - 0.598 in	250A
2/0 awg	70 mm ²	0.657 in - 0.681 in	
3/0 awg	95 mm ²	0.768 in - 0.799 in	450A
4/0 awg	120 mm ²	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
VT	02P	FL	2-	20	Z	N		(V01)

1. Connector Type	
VT	Voltarius

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

3. Service Class		
FL	Grey Zinc-Nickel Plated Aluminum^	
RW	Olive Drab Cadmium Plated Aluminum	
DT	Durmalon Plated Aluminum	
DZ	Black Zinc-Nickel Plated Aluminum	
RF	Electroless Nickel Plated Aluminum	

^ Currently available version

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

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

** Available in single pole only

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

* Socket contact available only with crimp termination

7. Alternate Rotations	
N	Normal Rotation
A	A Rotation
B	B Rotation
C	C Rotation
D	D Rotation
E	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
L	Less Interlocks

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

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

