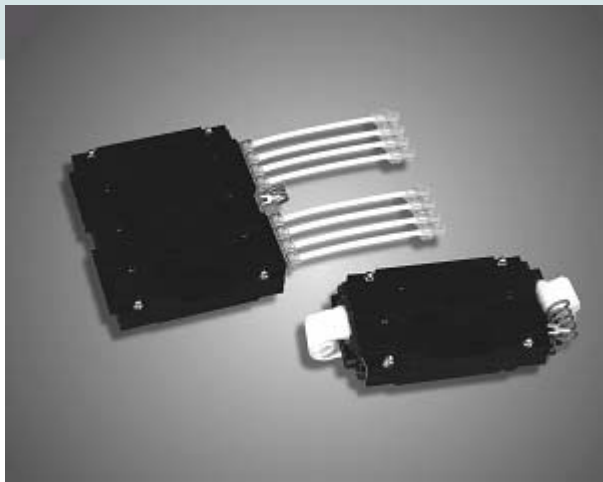




## V-Blox™ Data Line DDP™ Protection Products

Ideal For LAN Hubs, Concentrators and Multiport Interfaces



### DDPs OFFER

- State-of-the-art, avalanche diode technology
- Compact in-line installation
- High speed, high energy handling capability
- Low shunt capacitance to reduce signal loss
- Expandable design allowing for protection of up to 100 wires or 12 ports in a single package

### YOU RECEIVE

- Affordable, superior, equipment security
- Improved reliability and maximized system up-time
- Modular, space-saving design
- Adaptability to most industry applications

The DDP Series of data communication line protectors will ensure the reliable operation of hubs, bridges, routers, switches and other networked equipment running 10BASE T and 100BASE T Ethernet, RS422, RS423, RS232, Arc Net, Token Ring, Analog Dial Up, CSU/DSU, DDS, ISDN, T1 and most other communication environments.

Transient surges can enter electronic equipment through any pathway provided. If a facility has a reliable AC power protection system in place, transient surge energies can still be generated within a building by sources such as inductive load switching, ground loop currents and electrostatic discharge.

These surge energies are clamped by the AC power protector into the communication ground, damaging expensive communications hardware. V-Blox protectors are specifically designed to give added security to electronic devices with extremely low tolerance for voltage rises or ground loop energies. This protection is particularly important for equipment networked at distances greater than 30 feet and installations in high lightning areas. DDP models protect virtually any communication interface including: 10BASE T and 100BASE T Ethernet, RS422, RS232, RS423 and most high speed LAN/WAN interfaces. Combined into a compact interface unit, the devices exhibit an extremely fast response time of less than 5 nanoseconds. All these features make DDP protectors the most cost effective and versatile devices of their kind available today. Whether you need to protect a single communication line, or an entire installation, V-Blox DDP series protectors are an easy, cost-effective solution to over voltage problems.

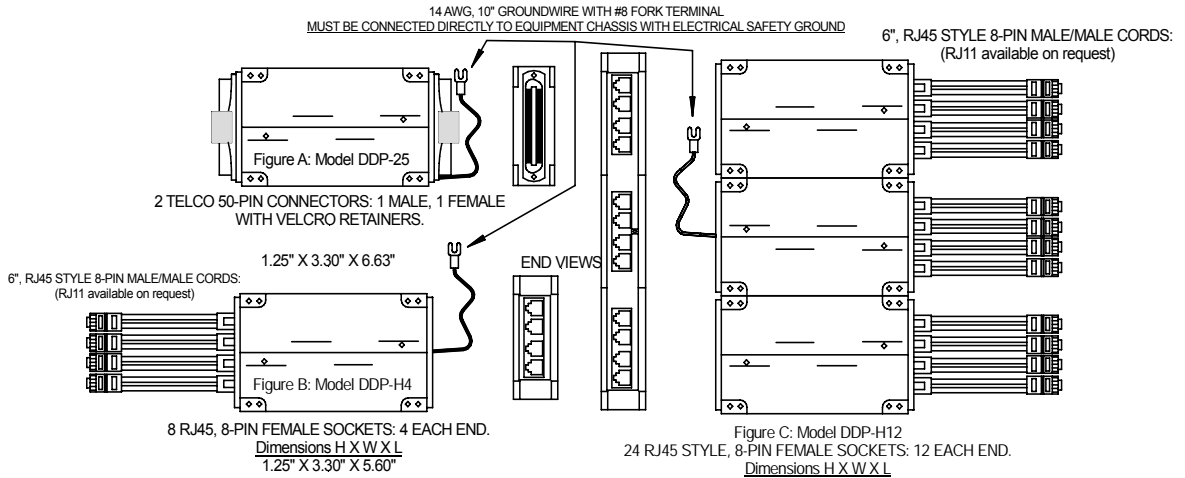
### ALL V-BLOX PRODUCTS ARE MADE IN THE USA

V-Blox Corporation is the leader & innovator in the design and manufacture of surge protection products, with twelve series of products and over 4,000 production variations. Through our Custom Products Division (CPD), V-Blox can design surge protection solutions for just about any application or network environment. V-Blox's Three Dimensional Balanced Array Protector earned the industry's highest recognition as the "gold standard" in communication line surge protection. Continued innovations include the use of avalanche diode technology, compact in-line installations for stand-alone applications along with products that address the structured cabling environment, coupled with high-speed, high-energy handling capability. V-Blox's products provide protection for products such as hubs, routers, switches, modems, ISDN, CATV, CCTV, SATV, USB, PCMCIA cards, and POS terminals. Please visit our website at [www.vblox.net](http://www.vblox.net) for more information on our broad range of products.

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**ELECTRICAL SPECIFICATIONS** (All specifications are subject to change with notice)

	ELECTRICAL SPECIFICATIONS (All specifications are subject to change with notice)					
	10BASE T	RS422, RS485, RS423	100 BASE T	TOKEN RING RS232	CSU/DSU NON SPAN T1 (fused)	DIAL-UP MODEM/FAX (fused)
STD. Clamp Voltage	7.5 Volts	7.5 Volts	7.5 Volts	18 Volts	60 Volts	240 Volts
PEAK PULSE CURRENT	132 Amps	132 Amps	132 Amps	60 amps	50 Amps	75 Amps
10/1000 $\mu$ s s.c. wave form @ Vcl						
RESPONSE TIME	LESS THAN 5 NANOSECONDS					
MAXIMUM SHUNT CAPACITANCE	<40pF	<40pF	<40pF	<40pF	<75pF	<95pF



**SYSTEM APPLICATION AND MODEL NUMBER**

Connector type	SYSTEM APPLICATION AND MODEL NUMBER					
	10BASE T	RS422, RS485, RS423	100 BASE T	TOKEN RING RS232	CSU/DSU NON SPAN T1 (fused)	DIAL-UP MODEM/FAX (fused)
SINGLE RJ21 PROTECTS 25 PAIRS (50 WIRES) FIGURE A	DDP-25-E	DDP-25-E	X	DDP-25-T	DDP-25-B	DDP-25-G
DOUBLE RJ21 PROTECTS 50 PAIRS (100 WIRES) NOT SHOWN	DDP-50-E	DDP-50-E	X	DDP-50-T	DDP-50-B	DDP-50-G
4 POSITION RJ45/RJ11 HUB PROTECTOR FIGURE B	DDP-H4-E	DDP-H4-E	DDP-H4-E-C5*	DDP-H4-T	DDP-H4-B	DDP-H4-G
8 POSITION RJ45/RJ11 HUB PROTECTOR (NOT SHOWN)	DDP-H8-E	DDP-H8-E	DDP-H8-E-C5*	DDP-H8-T	DDP-H8-B	DDP-H8-G
8 POSITION RJ45/RJ11 HUB PROTECTOR FIGURE C	DDP-H12-E	DDP-H12-E	DDP-H12-E-C5*	DDP-H12-T	DDP-H12-B	DDP-H12-G
* No RJ45 m/m adapter provided	(SPECIAL CONFIGURATIONS ARE AVAILABLE, CONTACT YOUR SUPPLIER)					

**ORDERING INFORMATION**

To order a DDP, choose the correct part number by selecting the system application and number of wires to be protected from the above chart. See figures A through C for product physical outlines.

NOTE: Special units can be supplied for any clamp voltage between 7.5 V and 240 V. The following information must be specified when ordering special units:

1. Connector type and number of wires to be protected (ex., RJ21, 100 wires)
2. System application (ex., Token Ring, Ethernet, ISDN, T1)

**INSTALLATION**

To install, insert the protector in series between the incoming communication lines and the I/O port of the equipment to be protected. The protector ground wire must be connected to the metal chassis of the equipment being protected. Units should be installed at both ends of the data cable for the most effective protection.

**CAUTION**

Ground wire must be grounded directly to the metal chassis of the equipment being protected. The equipment chassis must be connected to earth through a properly grounded AC power receptacle.

**V-BLOX CONNECTED EQUIPMENT GUARANTEE**

V-Blox Corporation offers our \$25,000 Connected Equipment Guarantee, 15 Year Replacement Program and a Limited Lifetime Warranty. This warranty applies only to serialized low voltage products registered with V-Blox Corporation and is subject to certain disclaimers and limitations. For a complete warranty statement, please contact V-Blox Corporation. All specifications and dimensions are subject to change without notice.