



RAK SERIES

Rack mount surge protection solutions for any infrastructure need

- Compact Form Factor
- High Speed, High Energy Handling Capability
- Insures Network Uptime And Integrity
- Ability To Protect Almost Every Device That Sends Data Over Copper



Cylix RAK series protectors are a cost effective solution to overvoltage problems.

Transient surges can enter electronic equipment through any connection, not just the AC power line. Facilities with reliable AC power protectors can still experience surge-related system downtime. Transient surge energies from sources such as nearby lightning strikes, inductive load switching, ground loop currents, and electrostatic discharge are clamped by AC protectors into the shared communication ground, resulting in damage to expensive communication hardware.

Our RAK Series includes: 16 port, 19" relay rack protectors as well as 16 and 32 port, 5" standoff units for wall mount protection or environments where 19" relay rack space is limited. A wide variety of communication interfaces are supported that include coax, 10/100/1000BASE T Ethernet, RS232, RS422, along with Power over Ethernet Modes A and B. For Telco requirements we offer protection for Dial-up, T1, DDS, ISDN and other lease line environments. These devices exhibit an extremely fast response time of less than 5 nanoseconds.

All these features and more make Cylix RAK series of surge protectors the most cost effective and versatile devices of their kind available today.

www.cylix.com



RAK SERIES

ELECTRICAL SPECIFICATIONS

	10/100BASE T RS422, RS485, RS423, ETHERNET	1000BASE T CATEGORY 6 ETHERNET	HIGH VOLTAGE ETHERNET	RS232	T1	ISDN, DDS (fused)	DIAL-UP/ MODEM / FAX (fused)	POWER OVER ETHERNET (MODE A)	POWER OVER ETHERNET (MODE B)	CCTV	CABLE TV / SATELLITE
STD. CLAMP VOLTAGE	7.5 VOLTS	7.5 VOLTS	60 VOLTS	18 VOLTS	60 VOLTS	60 VOLTS	240 VOLTS	60 VOLTS	Pins 1, 2, 3, & 6 - 7.5 volts Pins 4, 5, 7, & 8 - 60 volts	7.5 VOLTS	90 VOLTS
PEAK PULSE CURRENT 10/1000 us s.c. wave form @Vcl	132 AMPS	100 AMPS	45 AMPS	60 AMPS	50 AMPS	50 AMPS	75 AMPS	50 AMPS	Pins 1, 2, 3, & 6 - 132 amps Pins 4, 5, 7, & 8 - 50 amps	132 AMPS	20ka (8/20 msec waveform)
RESPONSE TIME	----- LESS THAN 5 NANoseconds -----										
MAXIMUM SHUNT CAPACITANCE	<40pF	<8pF	<15pF	<40pF	<75pF	<75pF	<95pF	<25pF (Ethernet lines only)	<25pF (Ethernet lines only)	<30pF	1 pF

SYSTEM APPLICATION AND MODEL NUMBER

		100/1000BASE T RS422, RS485, RS423, ETHERNET	HIGH VOLTAGE ETHERNET	RS232	T1	ISDN, DDS (fused)	DIAL-UP/ MODEM / FAX (fused)	POWER OVER ETHERNET (MODE A)	POWER OVER ETHERNET (MODE B)	CCTV	CABLE TV / SATELLITE
16 PORT FLUSH MOUNT UNIT (FIGURE A)	ALL PINS	RAK16-E-C5E RAK16-E-C6 (1)	X	RAK16-T (1)	RAK16-B (1)	RAK16-B (1)	X	RAK16-PoE-A (1)	RAK16-PoE-B	X	X
	CENTER 2 PINS	X	X	X	X	X	RAK16-G (1)	X	X	X	X
16 PORT STAND-OFF UNIT (NOT SHOWN)	ALL PINS	RAK16-E-C5E-SO (1) RAK16-E-C6-SO	RAK16-C6-60v-SO (1)	RAK16-T-SO (1)	RAK16-B-SO (1)	RAK16-B-SO (1)	X	RAK16-PoE-A-SO (1)	RAK16-PoE-B-SO (1)	X	X
	CENTER 2 PINS	X	X	X	X	X	RAK16-G-SO (1)	X	X	X	X
32 PORT STAND-OFF UNIT (NOT SHOWN)	ALL PINS	RAK32-E-C5E-SO (1) RAK32-E-C6-SO	RAK32-C6-60v-SO (1)	RAK32-T-SO (1)	RAK32-B-SO (1)	RAK32-B-SO (1)	X	RAK32-PoE-A-SO (1)	RAK32-PoE-B-SO (1)	X	X
	CENTER 2 PINS	X	X	X	X	X	RAK32-G-SO (1)	X	X	X	X
16 PORT FLUSH MOUNT UNIT (FIGURE B)	COAX	X	X	X	X	X	X	X	X	RAK16-BNC	RAK16-CMS (1)
16 PORT FLUSH MOUNT UNIT - FRONT ACCESSIBLE MODULES (FIGURE C)	X	X	X	X	RAK16-T1-1U	X	X	X	X	X	X

(1) Not UL Listed

(Special Configurations Available)

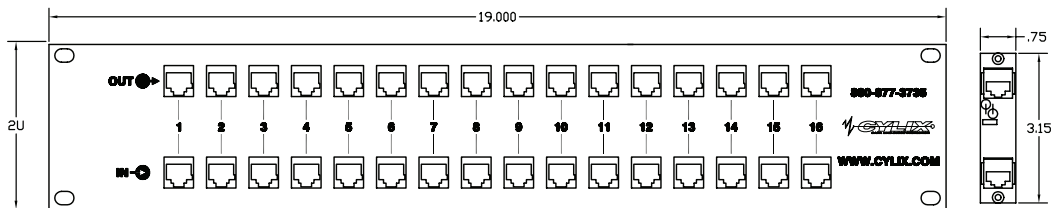


FIGURE A

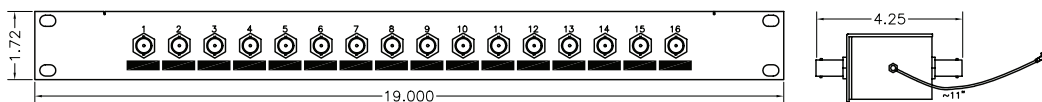


FIGURE B

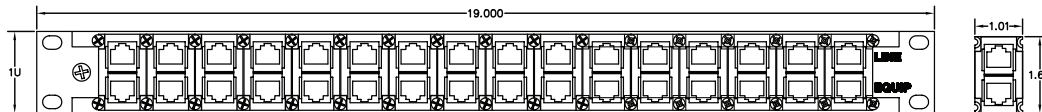


FIGURE C

Cylix "Circle of Protection" Warranty

The Cylix Corporation offers our "Circle of Protection" Warranty which includes a \$25,000 Connected Equipment Guarantee, 5 Year Replacement Program, and a Limited Lifetime Warranty. For complete warranty information, disclaimers, and exclusions, please visit www.cylinx.com.

All specifications and dimensions are subject to change without notice.
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