OnLine[®] J Series Communication Line Protectors: provide solid state

communications line protection designed to protect 21st century applications that use integrated circuitry as a component of their operation. From electronic commerce to seventh generation PBX environments, the J Series family will meet your demanding protection needs.

Eliminates harmful transients

System lockups, dropped calls, mis-dials, system memory loss, "no trouble found" service calls, power outages, shortened component life — these problems all result from high frequency interference. This interference can originate outside the premises in the form of lightning induced noise, or it can occur inside when the overall system grounding is inadequate.

ONEAC OnLine protectors prevent these fast-edged impulses from entering your system, yet allow lower frequency ring voltages and signals to pass through unobstructed. This unique ability to discriminate between harmful and desired signals allows OnLine protectors to suppress this interference more accurately at lower voltages.

Lasts longer on the job

ONEAC communication line protectors feature a more robust design. Using solid state technology, they are better able to withstand current and voltage surges than conventional gas tube protectors commonly found at the network interface. Which eliminates the cost and downtime of replacement due to nuisance failures.

Your bottom line

By removing electrical noise, ONEAC improves system reliability. Look at actual evidence. Switching over to a protection scheme using OnLine protectors with ONEAC power conditioners report an over 50% reduction in total trouble calls; 83% fewer service calls due to hardware problems; 70% fewer system resets; and 43% fewer calls in which no trouble was found. Reducing maintenance dispatches and improving customer service means improved earnings.

Ultimate assurance

Leading companies employ ONEAC OnLine communication line protectors in their installations for good reason. OnLine protectors provide greater assurance of system uptime and lower service costs than conventional protectors.



- · Robust/solid state overvoltage protection: lasts longer in the field.
- Patented transient filtering: allows exceptionally low let-through performance for optimum protection of electronic systems.
- Self-resetting sneak current protection: eliminates overcurrent problems without creating unnecessary fuse replacements.
- 100 A surge impulse design: provides longer lasting protection.
- Simple installation: convenient ground connection and wall mounting make installation a snap.
- · Models available for analog, digital and data lines.
- Safety approvals: UL listed Primary (497), UL listed Secondary (497A), and cUL.
- 5-year warranty: the best assurance of product quality and performance in the industry.
- Manufactured under ISO 9001: assures consistent quality and performance.
- Free 24-hour technical support

OnLine J Series Communication Line Protectors: Specifications

A variety of applications

Digital OPX by vendor

Samsung 24 V (2 pr, 12 V/pr)

Executone 24 V (2 pr, 12 V/pr)

ROLM/Siemens 24 V (1 pr)

Toshiba 24 V (1pr)

Toshiba 24 V (2 pr)

Nortel 24 V (1 pr)

NEC 48 V (1 pr)

Mitel 48 V (1 pr)

Fuji 48 V (1 pr)

Samsung 24 V (1 pr)

ONERIC

Installed between the demarcation point and point of use, OnLine J Series communication line protectors eliminate the possibility for noise generated on outside telephone lines to enter systems through T1 connections, modems or faxes

Application	Part No.	Pairs Protected		
Analog: Standard Service — trun 6 position, 2 wire, 1 Pair 6 position, 4 wire, 2 Pair 8 position, 8 wire, 4 Pair	k lines, analog OPX stat RJ-AP11 RJ-AP14 RJ-AP45	tions with ring signal (3,4) (3,4; 2,5) (1,8; 2,7; 3,6; 4,5)		
Analog and Digital: Services w 6 position, 2 wire, 1 Pair 6 position, 4 wire, 2 Pair 8 position, 8 wire, 4 Pair	ithout ring signals RJ-DP11 RJ-DP14 RJ-DP45	(3,4) (3,4; 2,5) (1,8; 2,7; 3,6; 4,5)		
ADSL: Services with local analog 6 position, 2 wire, 1 Pair	service RJ-AD11	(3,4)		
xDSL: Services without local ana 6 position, 2 wire, 1 Pair	llog service RJ-DC11	(3,4)		
T1 (DS1): Services T1/PRI 8 position, 4 wire	RJ-DP48C	(1,2; 4,5) opt. jumper 7&8 in to 7&8 out		
Subrate (DS0): 8 position, 4 wire	RJ-DP48S	(1,2;7,8)		

Part No.

RJ-DSP36

RJ-DSP36

RJ-DSP36

RJ-DSP20

RJ-DSP20

RJ-DSP36

RJ-DSP36

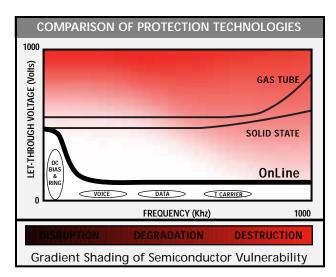
RJ-DSP68

RJ-DSP68

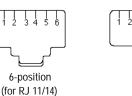
RJ-DSP68

ONEAC breaks the "Ring Voltage Barrier"

Conventional protectors (gas tube or solid state) are designed to clamp above the operating DC bias and the ring voltage level. The OnLine's ability to differentiate signals based on frequency permits the desired signals to pass while preventing transients from damaging semiconductor-based electronics.



Jack openings



8-position (for RJ 45)

56 3 4

Part Number	RJ-AD11	RJ-APxx*	RJ-DC11	RJ-DPxx*	RJ-DP48C RJ-DP48S	RJ-DSP20	RJ-DSP36	RJ-DSP68
Impulse Voltage Performance 10/1000µS, 1500V,	100A Impulses:							
Let-through voltage - line to earth (typical/max.)	60 V/100 V	320 V/370 V	310 V/350 V	78 V/95 V	78 V/95 V	55 V/65 V	65 V/75 V	100 V/110 V
Let-through voltage - line to line (typical/max.)	60 V/100 V	150 V/250 V	100 V/150 V	70 V/105 V	70 V/105 V	55 V/65 V	65 V/75 V	100 V/110 V
DC Breakdown Voltage (0-1 kV @ 100 V/s):								
Line to earth (typical/range)	310 V/270-350 V	320 V/270-370 V	310 V/270-350 V	78 V/60-95 V	78 V/60-95 V	20 V/18-23 V	36 V/33-40 V	68 V/64-74 V
Line to line (typical/range)	310 V/270-350 V	640 V/540-740 V	310 V/270-350 V	155 V/120-190 V	155 V/120-190 V	20 V/18-23 V	36 V/33-40 V	68 V/64-74 V
Module Loop Resistance @ 25°C (each leg)	0.3 Ω min, 0.5 Ω max	12 Ω min, 18 Ω max	3 Ω min, 6 Ω max	3 Ω min, 6 Ω max	3 Ω min, 6 Ω max	≤1 Ω	≤1 Ω	≤1 Ω
Holding Current	≥260 mA	≥150 mA	≥150 mA	≥150 mA	≥150 mA	_	_	_
Response Time	<1 ns	<1 ns	<1 ns	<1 ns	<1 ns	<5ns	<5ns	<5ns
Insulation Resistance @ 12 VDC	>100 MΩ	>100 MΩ	>100 MΩ	>100 MΩ	>100 MΩ	>1 MΩ	>1 MΩ	>1 MΩ
Capacitance @ 12 VDC, 1 VAC, 10 kHz - 10 MHz								
Line to earth	<40 pf	<200 pf	<75 pf	<200 pf	<200 pf	<75 pf	<75 pf	<75 pf
Line to line	<40 pf	<200 pf	<150 pf	<200 pf	<200 pf	<75 pf	<75 pf	<75 pf
On State Voltage with 1 Amp RMS	<5 V	<5 V	<5 V	<5 V	<5 V	_	_	_
Overcurrent Protection (Sneak Current) @ 25° C								
Self resetting (ceramic PTC technology)	_	300 mA	300 mA	300 mA	300 mA	_	_	_
Non-resetting (time delay fuse)	750 mA	1 A	1 A	1 A	1 A	1 A	1 A	1 A

's for 11, 14, or 45. See app

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A CHLORIDE POWER PROTECTION COMPANY

(800) 327 8801 OPT. 2 in USA AND CANADA

27944 N. Bradley Road, Libertyville, IL 60048 Phone 847 816-6000 FAX 847 680-5124

George Curl Way, Southampton, Hampshire SO18 2RY, UK FAX +44 0 2380 610852