

OnLine® 6-Series Communication Line Protectors: Some face persistent system problems, despite their use of conventional communication line protectors. Others face performance expectations that allow zero tolerance for downtime. 6-Series communication line protectors are specifically engineered to satisfy these demanding applications, whether for analog or digital lines.

Ultimate assurance of system reliability

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

Patented SwitchedFilter™ technology

System lockups, dropped calls, mis-dials, system memory loss, "no trouble found" service calls, service outages, shortened component life — these problems result from high frequency interference.

ONEAC OnLine protectors with patented SwitchedFilter technology have the unique ability to discriminate between harmful and desired signals. This allows OnLine protectors to prevent fast-edged transients from entering your system, yet allow lower frequency ring voltages and lower voltage voice and data signals to pass through unobstructed.

Last longer on the job

ONEAC communication line protectors feature a more robust design than others so they're better able to withstand current and voltage surges. They also include self-resetting sneak current protection — that eliminates the cost and downtime of replacement due to nuisance failures.

Proven to reduce service costs

By removing electrical transients, ONEAC improves system reliability. Look at actual evidence — installers 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.



- **Robust/solid state overvoltage protection:** last longer in the field
- **Patented SwitchedFilter technology:** 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
- **Convenient test points:** for faster, easier line testing
- **100 A surge impulse design:** provides longer lasting protection
- **5-year warranty:** the best assurance of product quality and performance in the industry
- **Models available for analog, digital and data lines**
- **UL Listed Secondary (497A), cUL**
- **UL Listed Primary (497)**



Easily mountable on standard 66 blocks, OnLine provides more complete and longer lasting protection than conventional communication line protectors.

OnLine 6-Series Communication Line Protector: Specifications

ONEAC Breaks the "Ring Voltage Barrier"

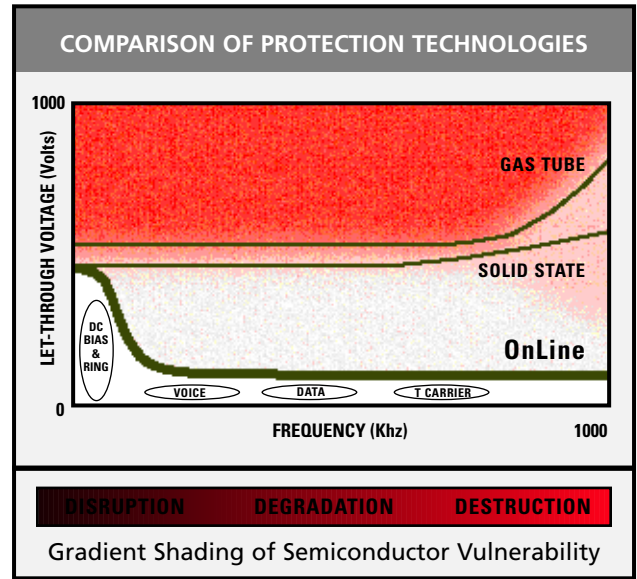
Conventional protectors (gas tube or solid state) are designed to clamp above the operating DC bias and the ring voltage level. The OnLine's ability to differentiate signals based on frequency permits the desired signals to pass while preventing transients from damaging semiconductor-based electronics.

For analog, Digital or ISDN Service

For use with type 66 block M1-50, 6-Series communication line protectors eliminate the possibility for noise generated on outside telephone lines to enter internal communication circuits.

Application Model/Part No. Color

ADSL: Standard ADSL Services with associated POTS	6-AD	Yellow
Analog: Standard Service — Trunk Lines, Analog OPX Stations with Ring Signal	6-AP	Black
Digital: ISDN	6-DP	Yellow
T1: Standard Analog Lines and T1 Lines	6-DC	Blue
Ground Bar: required for each 66 block (supports up to 25 protectors)	350-032	—



Model	6-AD	6-AP	6-DP	6-DC
Impulse (Limiting Voltage) Performance: Impulse input @ 10/1000 uS, 1.5 kV, 100 A				
A. Impulse applied to input A or B in reference to earth and measured at outputs A or B in reference to earth Let-through Voltage (typical/maximum)	310 V/350 V	320 V/370 V	78 V/95 V	320 V/370 V
B. Impulse applied between inputs A and B, and measured between outputs A and B Let-through Voltage (typical/maximum)	180 V/230 V	150 V/250 V	70 V/105 V	150 V/250 V
DC Breakdown (Limiting) Voltage Range: 0-1 kV @ 100 V/S				
A or B in reference to earth (typical/range)	310 V/270-350 V	320 V/270-370 V	78 V/60-95 V	320 V/270-370 V
A to B (typical/range)	310 V/270-350 V	640 V/540-740 V	155 V/120-190 V	640 V/540-740 V
Module Loop Resistance @ 25°C (each leg) in ohms	3 min, 6 max	12 min, 18 max	3 min, 6 max	12 min, 18 max
Holding Current	≥150 mA	≥150 mA	≥150 mA	≥150 mA
Response Time	<1ns	<1ns	<1ns	<1ns
Insulation Resistance @ 50 VDC	>100M ohms	>100M ohms	>100M ohms	>100M ohms
Capacitance Line to Earth @ 50 VDC, 1 VAC, 10 kHz – 1 MHz				
A or B in reference to earth:	<75pf	<200pf	<200pf	<200pf
A to B:	<150pf	<200pf	<200pf	<200pf
On-State Voltage @ 1 A:	<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)	1.1 A	1 A	1 A	1 A
Color Code	Yellow	Black	Yellow	Blue
Test Points	Yes	Yes	Yes	Yes

ONEAC and OnLine are registered trademarks and SwitchedFilter is a trademark of ONEAC Corporation. All other trademarks, product and corporate names are the property of their respective owners.

ONEAC is a UL/BSI registered corporation — Certification No. A2900



A CHLORIDE POWER PROTECTION COMPANY

(800) 327 8801 Option 2 in USA AND CANADA

+44 (0) 1235 534721 in UK AND EUROPE

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) 1235 534197