



ADSL Broadband & Telephone Line Interference

PROBLEMS and SOLUTIONS

WHAT IS ADSL?

ADSL (Asymmetric Digital Subscriber Line) is a service that uses your existing telephone line to provide a broadband service that allows the telephone line and a high-speed internet connection to be used simultaneously.

ADSL INTERFERENCE

There have been a number of reported symptoms of the interference to telephone lines caused by the ADSL modem.

PROBLEMS OR SYMPTOMS

- ADSL connected to a neighbour's phone line causing interference on your phone line.
- Diallers failing to send test reports or test reports not being received at the Central Station.
- Increased phone bill - dialler continues to dial and doesn't shut down until max attempts reached.
- Multiple reports of the same event are being received in the Central Station.
- Alarms or Events not being received by the Central Station.
- Alarm panel seizing the line and not returning it for long periods.
- With no filter Securitel STU would go "NON Responding".
- We have not had any reports about adjacent line inference to a STU but it is possible.

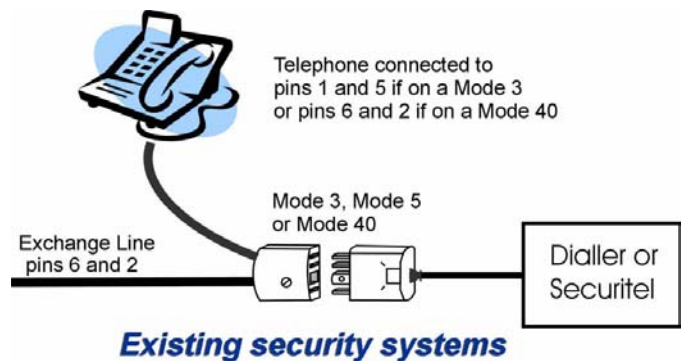
ADSLF (Part No. 100-006)

Unlike existing 2 wire ADSL micro filters, the ADSLF In-Line Micro Filter/Splitter is a four wire device. It connects all four wires used in the Mode 3 connection thus giving an effective Central Filter to all of the Phones connected on return wires (1 and 5) of the Mode 3 connection.

In a Mode 40 connection only terminals 6 and 2 need to be connected to filter the STU. If the ADSLF is installed in front of the phones, all phones will also be filtered from the ADSL signal.

An ADSL in-line micro filter separates the telephone service from the ADSL data. Without ADSL in-line micro filters, you voice calls will receive interference when ADSL is being transmitted.

An ADSL in-line micro filter is required between each telephone device and the telephone wall outlet. This includes fax machines, fax/modems, answering machines, cordless phones and alarm diallers.



PROBLEMS WITH EXISTING FILTERS

Multiple ADSL filters can be added (one on each phone/device) or a central filter can be used depending on the existing wiring. The limit on the number of older micro filters could be 2 to 3 before they affect (unbalance) the line which would then affect the performance of the ADSL modem.

The range limit of ADSL is approximately 3.6kms from exchange.

ADSL does not operate over pair gains system.

If a "standard" micro filter is used on an alarm system, the filter being only a 2 wire device, does not allow for connection of the 4 wires required for the mode 3 or mode 5. Hence the return connection of the line to the phone is not possible.

With the introduction of "do it yourself installation" there is more chance of incorrect configuration of the ADSL modem/alarm panel/phone combination.

