



xDSL POTS Splitter Macro Blocking Solutions:

If your company is currently offering “Triple Play” service over DSL, or are planning to offer it in the future, this information will likely *save many problem reports* from your customers.

DSL triple-play subscribers complain of picture interruption either when their phone rings, or when they pick up a ringing phone. This interference, referred to as pixialization, or macro blocking, causes larges square blocks of video to ruin a favorite show or the big game.

Macro blocking, when associated with telephone ringing, is caused by the telephone system itself. Most ring generators were not designed for modern digital loops, and will cause large surge currents while ringing. This current can be 10 times higher than the nominal current most splitters are designed for. When this current flows through the splitter, the circuit components will saturate and fail, causing loss of attenuation between the phone and data portions of the system and ultimately data errors.

This data loss corrupts the video stream and can cause macro blocking in any portion of the frame, but is most noticeable in fast action portions. Depending on what information, or data frame gets lost, determines how severe the macro blocking is. Macro blocking can be a single square or the entire video for a few seconds at a time. In some cases the data loss will cause the DSL modem to “resync” causing an interruption in both video and internet access that could last for 30 seconds.

Wilcom has a total “end-to-end” xDSL POTS splitter solution with CPE and CO equipment designed specifically to eliminate macro blocking with ringing. For CPE applications, the PS-3x series splitters delivers untouchable performance verses our competitors. The PS-36 is a CPE indoor mount master POTS splitter with the convenience of a terminal block for stripped wire and RJ-11 jacks for simple modular installation. Model PS-32 is intended for NID mounting, and will fit easily in most NID enclosures that accept standard size surge suppressors. For Central Office solutions, the PS-6900 modular shelf system can provide up to 144 ports in a compact 3U, 19” shelf in 24 port increments.



macro blocking using the competition's splitters



no macro blocking using Wilcom's splitters

Call your sales representative or call 603-524-2622 for free demonstration equipment to try in your own installation. View our web site at www.wilcominc.com