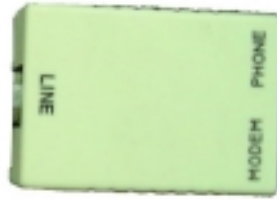


DSL Filter DT60-0032A



Introduction:

Plain old telephone service (POTS) splitters is used on telephone lines to ensure voice and data call quality. This document describes splitters and how and when to use them. POTS splitters result in the best data and voice performance when the router and the telephone are used on the same telephone line.

Features:

- All Delta ADSL Splitter are used to block any noise generated by other phones, fax, answering machines and analog modems are being introduced on the POT line, and pass high frequency signal to ADSL Modem.
- Complies with Full Rate G.dmt(G.992.1) or G.lite(G.992.2) ADSL.
- Use one Splitter for each telephone device. If several devices are connected to the same telephone wall jack, use only one Splitter between the first device and the wall jack.
- Minimize voice band interference transmission, signaling and supervision.
- Our DSL filter design electronically isolates the high-speed DSL data streams from the voice band Plain Ordinary Telephone Service (POTS) This design effectively blocks the ADSL and other radio frequencies up to 10 Megahertz.
- FCC CFR 47 Part 68 and UL 1950 Compliant and listed.
- The POTS splitter and Low-pass filter shall be passive element. Even if the power supply or equipment fails, the telephone Service on DSL line shall operate normally(2.3 XDSL SPEC 7.1)

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● On the right mentioned electrical characteristics can meet
Annex E. 2 of ITU-T Rec. G. 992.1 (2.3 XDSL SPEC 7.2)

Description:

Splitters are installed on telephones and Modems to improve voice call quality when voice and data equipment are using the same telephone line (twisted pair). The DT60-0032A series is an in-line filter designed to expedite the service delivery and improve the performance of Asymmetric Digital Subscriber Line (ADSL) services. This model filters all telephone sets, facsimile machines, answering machines, etc individually or in groups on line 1 only.

Applications:

The DT60-0032A series filters are used with other filters distributed throughout the subscribers' premises to isolate all voice band equipment devices such as telephone sets (including cordless types), answering machines, facsimile (fax) machines, 56Kb/s and lower rate modems, automatic dialers, and recorder connectors. The filters may also be used to isolate the telephone network jack connected to a digital cable and/or satellite television set-top box. The DT60-0032A series DSL filter is one of many filters manufactured by Delta Electronic, Inc. for subscriber installed digital services within homes, offices, and hotels.

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DSL Filter DT60-0032A series Specification:

3dB CUTOFF FREQUENCY		7KHz
D.C CHARACTERISTICS	D.C.C.	100mA
	D.C.R.	25Ω max.
	I.R.	>5M Ω @TIP TO GND & RING TO GND
INSERTION LOSS	SHORT LOOP	1.0dB Max. @1004Hz
	LONG LOOP	075dB Max. @1004Hz
ATTENUATION DISTORTION	SHORT LOOP	±1.5dB @0.2KHz~3.4KHz
	SHORT LOOP	±2.0dB @3.4KHz~4.0KHz
	LONG LOOP	+0.5/-1.5dB @0.2KHz~3.4KHz
	LONG LOOP	+1.0/-1.5dB @3.4KHz~4.0KHz
DELAY DISTORTION	SHORT LOOP	200uS @0.6KHz~3.2KHz
	SHORT LOOP	250uS @0.2KHz~4.0KHz
	LONG LOOP	200uS @0.6KHz~3.2KHz
	LONG LOOP	250uS @0.2KHz~4.0KHz
RETURN LOSS	ERL	6dB Min. 5dB Min.
	SRL-L	3dB Min.
	SRL-H	
LONGITUDINAL BALANCE		58dB Min. @0.2KHz~1KHz
		53dB Min. @3KHz
TIP TO RING CAPACITANCE		20nF Min. @Without the modem connected 115nf Max. @Without the modem connected
ATTENUATION		65dB Min. @30KHz~300KHz
		55dB Min. @300KHz~1104KHz
IMPEDANCE		600Ω @300Hz~3.4KHz

[Table 1: Specification List](#)

Rev:01 Year 2002