VDSL2 *Master* CPE POTS Splitter
FOR NID BOX MOUNTING

PS-32

Description

The Wilcom Master Splitter is a passive low-pass filter designed to provide POTS service in concert with DSL technology. The device blocks high frequency (20kHz-30MHz) energy from interfering with POTS (Plain Old Telephone Service) equipment. The PS-32 employs a low-pass filter for standard voice-grade copper lines.

The Wilcom PS-32 is ideally suited for video over DSL applications such as IPTV (Internet Protocol Television) over ADSL2+ or VDSL2. The PS-32 includes *robust ring-trip protection for non-zero cross ringers to eliminate video artifacts due to pixelization.*

The Wilcom PS-32 POTS Splitter is unique because of its convenient mounting location inside the Network Interface Device (NID). The PS-32 is similar in size to a standard station protector and mounts on the Telco side inside the NID. The terminal block allows for easy installation so the installer can simply connect the existing premise wiring to the PHONE terminals on the splitter, and have POTS service up and running within minutes without expensive, and time-consuming rewiring. ATU-R terminals connect directly to the ADSL equipment with existing cable. (Data-grade cabling is recommended for new installations.)

Features and *Benefits*

√ **Compatible Coding Schemes**
The PS-32 xDSL Master Splitter is compatible with all ADSL2+ & VDSL2 coding schemes

√ **Meets ITU-T and ANSI Standards**
The PS-32 xDSL Master Splitter is fully compliant with the requirements of ANSI T1.413-1998 Annex E; ITU-T G.992.1, G.992.2 Annex E.2 Type 2 (North America) G992.5 (ADSL2+) & G.993.2 (VDSL2)

√ **Terminal Block**
The PS-32 xDSL Master Splitter has convenient screw type terminals for flexible wiring schemes

√ **Ring Trip Mitigation**
The unique design of the PS-32 also addresses specific concerns during difficult ringing and ring-trip conditions.

√ **Convenient Mounting**
The PS-32 POTS Splitter is unique because of its convenient mounting location in the Telco side of the NID.

√ **Increased Bandwidth**
Supports connections to 34 MHz for the full 4096 subcarriers and data speeds of 200 Mbps.

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Specifications

Ordering Information

Filter Parameters

Corner Frequency	7kHz
Insertion Loss (1kHz)	<0.25dB
30kHz Attenuation	> 65dB
Attenuation Distortion (200Hz-3.4kHz)	< 0.25dB
Delay Distortion	<50uSec
Return Loss (600 + 2.16uF, typical)	
ERL	+27dB
SRL-LO	+18dB
SRL-HI	+20dB
DC Resistance	< 20 Ohms
Longitudinal Balance	> 70dB

Power

Maximum Loop Current	300mA

Physical

Dimensions (HWD)	1.68" x 2.25" x .810"
	(42.7 x 57.1 x 20.6 mm)

Environment

Temperature @ (5 to 95% humidity)	
Operating	-40°C to +85°C
Storage	-40°C to +85°C

Safety

UL 1863 Listed
ACTA Registered
CS-03 Registered

Mounting example for PS-32

Warranty

The Wilcom PS-32 Master xDSL Splitter is warranted against failure for a period of three years if normal usage is observed.
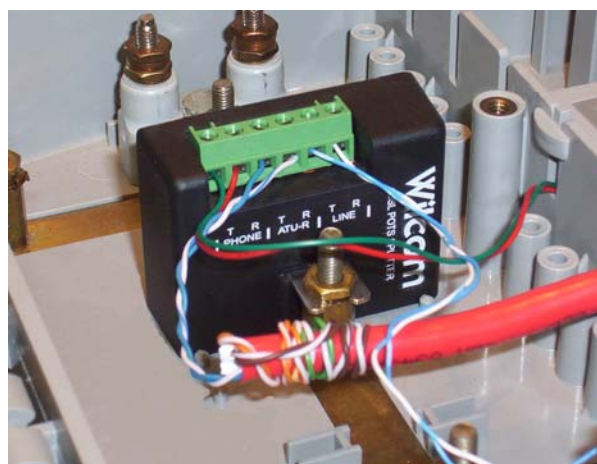
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