

VDSL2 master CPE POTS splitter

PS-36

Description

The Wilcom PS-36 Master Splitter is a passive low-pass filter designed to provide POTS service in concert with VDSL2 technology. The device blocks high frequency (20kHz-30MHz) energy from interfering with voice equipment and prevents POTS noise from causing data errors on the xDSL connection. The PS-36 is backwards compatible with all xDSL systems.

The Wilcom PS-36 is ideally suited for video over xDSL applications such as IPTV (Internet Protocol Television) by providing robust ring-trip protection for non-zero cross ringers to eliminate video pixelization during off-hook and ring-trip events.

The PS-36 can be easily mounted inside the customer premises where the phone service enters the building. Two types of connection options are supported by the PS-36 splitter: a screw-type terminal block and standard RJ jacks. This allows the installer to simply connect the existing premise wiring to the PHONE connector or RJ jack on the splitter, and have POTS service up and running within minutes without expensive and time-consuming rewiring. A "home-run" connection with data-grade cable is recommended direct to the xDSL modem from the ATU-R/MODEM connection on the splitter.



Features and Benefits

- **Compatible Coding Schemes**
The PS-36 VDSL2 Master Splitter is compatible with all ADSL and VDSL2 coding schemes
- **Meets ITU-T and ANSI Standards**
The PS-36 Master Splitter is fully compliant with all North American VDSL2 and ADSL standards
- **RJ Jacks and Terminal Block**
The PS-36 Master Splitter has both RJ jacks and screw-type terminals for wiring flexibility
- **Ring Trip Mitigation**
The unique design of the PS-36 reduces video pixelization during ringing / ring-trip
- **Easy Mounting**
The compact PS-36 can be wall-mounted with screws through the holes in the mounting flange or with double-stick tape.
- **Increased Bandwidth**
Supports frequencies to 30 MHz, 4096 VDSL2 subcarriers and data speeds of 200 Mbps.

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Specifications

Filter Parameters

Corner Frequency	7kHz
Insertion Loss (1kHz)	< 0.25dB
30kHz Attenuation	> 65dB
Attenuation Distortion (0.2kHz-3.4kHz)	< 0.25dB
Delay Distortion	< 50µs
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
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Terminal Block

Wire Gauge	19-26 AWG
Screw Size	5mm

Physical

Dimensions (HWD)	3.9x2.1x1.0" (99x53x25 mm)
Weight	3.2 oz. (99.53 g)

Environment

Operating & Storage Temperature	-40°C to +85°C
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Safety

UL/cUL 1863 Listed
ACTA Registered
CS-03 Registered

Industry Compliance

ANSI T1.424 Designed to full VDSL2 30 MHz bandwidth "Interface Between Networks and Customer Installation Very-high-bit-rate Digital Subscriber Lines (VDSL) Metallic Interface (DMT based)"

ITU-T G.993.2 Compliant "Very high speed digital subscriber line transceivers 2 (VDSL2)"

ITU-T G.992.5 Compliant "Asymmetric Digital Subscriber Line (ADSL) transceivers - Extended bandwidth ADSL2 (ADSL2plus)"

ITU-T G.992.3 Compliant "Asymmetric digital subscriber line transceivers 2 (ADSL2)"

ITU-T G.992.1 Compliant "Asymmetric digital subscriber line (ADSL) transceivers"

ATIS 0600016 Designed "Remote End POTS Splitter Requirements"

Broadband Forum TR-127 Designed "Dynamic Testing of Splitters and In-Line Filters with xDSL Transceivers"

Ordering Information

Product

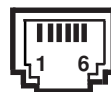
Part Number

PS-36 30360020
(Phone / RJ11, Modem / RJ45, Line / RJ11)

PS-36-01 30360040
(Phone / RJ11, Modem / RJ11, Line / RJ11)

PS-36

Function	Type	Tip	Ring
Line	RJ-11	Pin 3	Pin 4
ATU-R Modem	RJ-45	Pin 4	Pin 5
Phone	RJ-11	Pin 3	Pin 4



RJ-11 jack



RJ-45 jack

PS-36-01

Function	Type	Tip	Ring
Line	RJ-11	Pin 3	Pin 4
ATU-R Modem	RJ-11	Pin 3	Pin 4
Phone	RJ-11	Pin 3	Pin 4

Warranty

The Wilcom PS-36 VDSL2 Master Splitter is warranted against failure for a period of three years.

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Specifications and prices are subject to change without notice.

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ISO - 9001:2008 Registered

P.O. Box 508, Laconia, NH 03247

Tel: (603) 524-2622 or (800) 222-1898, Fax: (603) 524-3735

www.wilcominc.com