

ADSL 2+ Test Results

Splitter parameter	Electrical requirements	
	conditions	values
Splitter bandwidth		DC to 16 kHz
Nominal voice band		DC to 4 kHz
Ringing frequency		25 Hz to 50 Hz
ADSL band		30 kHz to 2208kHz
POTS line impedance	300 Hz to 3.4 kHz	600 ohms
Modem impedance	30 kHz to 1.104 MHz	100 ohms
DC Loop current		<100 mA
DC series resistance	POTS port shorted.	< 50 ohms
Tip to ring Isolation resistance		> 1 Mohms
Voice band loss requirements		
Insertion loss	600 Ω /@ 1 kHz	< 1 dB
Insertion loss distortion)	600 Ω /200Hz-4kHz	± 1 dB
Return loss (	300 Hz to 500 Hz	> 14 dB
	500 Hz to 2000 Hz	> 18 dB
	2000 Hz to 3400 Hz	> 14 dB
	200kHz to 1MHz	> 16 dB
Group delay distortion	200 Hz to 600 Hz	< 200 μ S
	600 Hz to 3200Hz	< 200 μ S
	3200 Hz to 4000 Hz	< 250 μ S
Unbalance about earth	15 Hz to 50Hz	≥ 40 dB
	50 Hz to 600Hz	≥ 46 dB
	600Hz to 3.4kHz	≥ 52 dB
Attenuation	16kHz	≤ 3 dB
	32 kHz to 350 kHz	≥ 29 dB
	350 kHz to 2208kHz	≥ 55 dB