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DLS 400

ADSL Wireline & Impairment Simulator



Description

The DLS 400 simulates various local loops for testing Asymmetrical Digital Subscriber Loop (ADSL) transmission products and other high speed digital subscriber loop technologies. It reproduces the exact characteristics of real telephony cable using networks of passive discrete components (L,R,C), thus reproducing both the A.C. and D.C. characteristics of the line. The DLS 400 contains hundreds of segments of cable simulation which can be matrixed together in various configurations and line lengths. In analog terms, the DLS 400 reproduces cable accurately up to 1.5 MHz and in some configurations up to 2.0 MHz. In all, 28 preset test loops for testing ADSL are provided and several others can be created by the user. The DLS 400 comes complete with an IEEE-488 (GPIB) interface which conforms to SCPI specifications for integration into computer controlled test systems.

Applications

Delivering high-speed data, voice and video to a subscriber's premise over a single pair of wires requires a large bandwidth for transmission, coupled with complex algorithms of compression, error correction, and echo cancellation. The DLS 400 provides a perfect test bed for optimizing these algorithms. Due to the large bandwidth provided by the DLS 400, it is suitable for testing ADSL, HDSL, T1 and ISDN (BRI & PRI) transmission products. The DLS 400 is equally suited for testing transmission schemes which use DMT, CAP, 2B1Q and any other line codes.

Power Feeding

Because the DLS 400 utilizes only chains of passive components to simulate twisted copper cable, it can pass D.C. loop current. Although other line simulators exist, only the DLS 400 offers real

cable simulation up to as much as 2.0 MHz. Using passive components also means that full bi-directional transmission can be achieved.

Accessories

The DLS 400 comes complete with a full set of wireline modules that simulate the local loops as previously described. Two low crosstalk test cables are also provided and are highly recommended for use with the DLS 400 in order to ensure consistent results. The DLS 400 comes complete with both RS232C and IEEE-488 interfaces and associated cables. An IEEE-488 interface card for the IBM-PC is available as an option. The DLS 400 works with Ziatech, National Instruments and other IEEE-488 interface cards.

Noise and Impairment Module (Optional)

The DLS 400 Noise and Impairment Module fits inside the DLS 400. This allows the DLS 400 to simulate the following:

- ANSI ADSL Xtalk Cat. I & II (T1.601 & CSA loops)
- ANSI ADSL T1 Xtalk Cat. I & II
- ANSI ADSL C1 Impulse Cat. I & II
- ANSI ADSL C2 Impulse Cat. I & II
- ANSI ADSL MTS test Cat. I & II
- ANSI HDSL
- ANSI BRI T1.601
- ANSI BRI 49 DSL disturbers
- ANSI BRI 24 DSL disturbers
- ETSI BRI & HDSL shaped noise
- ETSI BRI & HDSL longitudinal noise
- ETSI BRI & HDSL Impulse test
- ETSI HDSL cook pulse
- ETSI ADSL Xtalk 1 & 2
- ETSI ADSL Test Impulse 1 & 2
- ETSI ADSL Maximum Stress Linearity Test
- FTZ BRI shaped noise



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