



# Spirent DLS 6100 Series Production Wireline Simulator

## DLS 6100

**Spirent Communications DLS 6100 Series Production Wireline Simulators are perfect for the production testing of xDSL modems. Offered in North American (DLS 6100), European (DLS 6140) and Japanese (DLS 6100J) wireline versions, the DLS 6100 series can be controlled via either the front panel or remotely, making it an excellent tool for design verification and production testing.**



### Features

### Benefits

Available wireline types	North American (DLS 6100) 26 AWG, European (DLS 6140) PE 0.4 mm, Japanese (DLS 6100J) 0.4 mm Paper.
Adjustable lengths	The DLS 6100 series is adjustable in 500 foot / 250 metre lengths and can simulate up to 23,500 feet / 6,000 meters of cable.
Passive circuitry	With a low noise floor and no additional noise from active components, passive circuitry allows for greater accuracy in testing.
Bandwidth	The DLS 6100 series offers up to 1.5 MHz of useable bandwidth.
DC characteristics	The DLS 6100 series can withstand 500 volts maximum DC peak AC between tip and ring and can continuously pass 100 mA of sealing current, ring voltage and loop current (line power).
Control	All DLS 6100 products are integrated into automated test systems using the Spirent ScriptCenter or by programming based on Standard Commands for Programmable Interfaces (SCPI), through IEEE 488 or RS-232 interface. As an alternative, the DLS 6100 series can also be controlled via a PC based DLS 1100 Series graphical software control interface.
Applications	An excellent tool for design verification and production testing. Perfect for use in testing local loop access products such as; ISDN U-interface, DLC, DDS products, and xDSL systems such as ADSL, HDSL2 and SHDSL applications.
Worldwide standard	Interoperability issues are easily worked out as Spirent DLS simulators, regarded as the worldwide standard in conformance testing, are used by 90% of modem developers.
Complete test solution	The DLS 6100 series is a key component in Spirent's comprehensive test and analysis solution for DSL technology which includes Smarbits, Adtech and Zarak products.

#### Sales Information Call

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#### Spirent DLS Division

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## System Configuration

### DLS 6100 (North American)

#### Cable Type

- 26 AWG (from ITU-T G.996.1).

#### Distance

- 23,500 feet in 500 foot increments.

### DLS 6140 (European)

#### Cable Type

- PE 0.4 mm  
(from ITU-T G.991.2 Annex B).

#### Distance

- 6 km, in 250 meter increments.

### DLS 6100J (Japanese)

#### Cable Type

- 0.4 mm Paper (from ITU-T G.996.1).

#### Distance

- 6 km, in 250 meter increments.

### DLS 6100 Series Specifications

#### Frequency

- DC to 1.5 MHz.

#### Attenuation Accuracy

- $\pm (6.5\% + 0.5 \text{ db})$  to -80 dB.

#### DC Characteristics

- 100 mA, 500V maximum DC.

#### Control

- Manual/remote (remote via IEEE 488 or RS-232C).

#### Connections

- Manual:  
2 (one per side) 8-pin RJ-45 connectors, located on the front panel.
- Remote:  
**Front:**  
2 (one per side)  
8-pin RJ-45 connectors.  
**Back:**  
2 (one per side)  
two-pole terminal strips.  
2 (one per side)  
CF connectors (Banana Plugs).

### DLS 6100 Series Specifications

#### AC Power

- 100 -130 VAC, 60 Hz or  
230-240 VAC (+6/-10%)  
50/60 Hz AC to DC adapter (required for remote unit only).

#### Environmental

- Operating Temperature:  
+10°C to +40°C (50°F to 104°F).
- Storage Temperature:  
+10°C to +40°C (50°F to 104°F).
- Cable Reference Temperature:  
22°C.
- Humidity:  
90% (non-condensing) max.

#### Mechanical

- Weight:  
4.5 kg/10 lbs per chassis.
- Dimensions:  
44 mm x 423 mm x 384 mm  
(1.75" x 17" x 15") (H x W x D)  
(1U height).  
Unit comes complete with rack mount brackets.

## Spirent Companion Products

### Spirent ScriptCenter

Allows easy automation with other Spirent products.

### Adtech AX/4000

Allows for traffic generation and analysis.

### SmartBits SMB 200/2000

Allows for network performance analysis.

### Spirent DLS Products

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