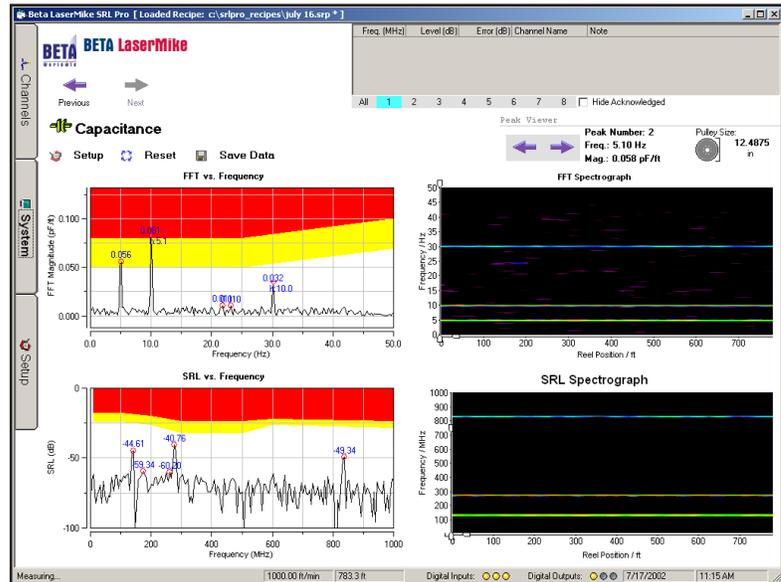


## SRL PRO: ON-LINE PREDICTIVE ANALYSIS TOOL

For Cat 5e/6/7 and Coaxial Cables

### SRL Pro Advantages

- ▶ Provides in-process, real-time notification of SRL conformance
- ▶ Simultaneously monitors and analyzes diameter, capacitance, and other process variables which can otherwise create SRL problems
- ▶ Customer configured “look-up table” automatically identifies suspect SRL sources
- ▶ Intuitive graphical user interface and out-of-tolerance warning capability make it easy to use for any operator
- ▶ Automatic setup “wizards” and recipe download capability make setup quick and easy
- ▶ Quick notification of recent or past problems with alarm history feature
- ▶ Line speed input for accurate prediction



The Beta LaserMike SRL Pro™ is the first reliable predictive analysis tool designed specifically to find Structural Return Loss (SRL) problems and identify potential causes of these problems on Datacom insulation lines in real time before they cost you time and money.

#### Monitors up to Eight Variables

SRL Pro software resides in a PC and uses up to eight channels of sensor data simultaneously to identify SRL problems within the parameters you select. This means that in addition to diameter and capacitance, SRL Pro can also monitor line speed, line tension, input from an accelerometer, extruder screw speed, wire temperature, and other process variables. Fast Fourier Transform (FFT)/SRL results from all channels can be displayed on the screen simultaneously.

#### Finds SRL Problems and Points You Toward The Source

As your line is running, SRL Pro monitors data from each of the gauges or sensors you selected. Using FFT, it recognizes cyclical variations in the input data. This information is compared to cable parameters to calculate impedance and

SRL performance, and automatically analyzed at the optimum rate for the required bandwidth.

If SRL Pro finds a problem, it can trigger an operator alarm. Meanwhile FFT data such as pulley size, fault frequency, fault distance, and fault amplitude are automatically calculated to assist the process engineer in troubleshooting the line.

#### Trends FFT and SRL Performance Throughout the Reel

Using specially designed three dimensional graphs, SRL Pro can trend the FFT/SRL information for the entire reel. At the end of each reel, it archives the data for later use.

#### Identifies Suspect Components in the Line

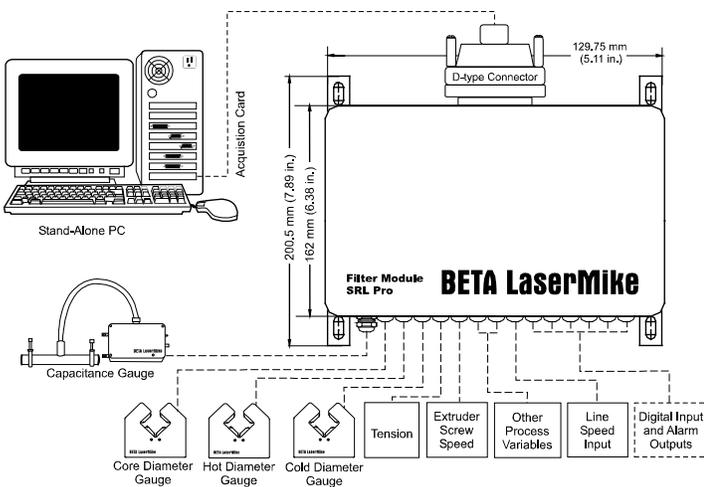
In most cases, the periodicity is caused by a rotating (moving) component on the line. When a variation is detected, the challenge is finding which component in the line best fits the variation. When a spike is detected, SRL Pro refers to a customer configured “look-up table” and recommends targeted areas to investigate for troubleshooting.

Measured by Commitment

## The SRL Pro™ Gives You:

- ▶ Eight channels for analysis of your important process parameters. Each channel is equipped with digital and analog filters.
- ▶ Simultaneous display of multiple graphs
- ▶ Input Filter Module helps prevent potential aliasing problems caused by high-frequency components of the input signal
- ▶ Data update rate of two times per second—allowing detection of intermittent variation
- ▶ Easy-to-understand Windows®-style user interface with graphical display of impedance, FFT, SRL, and VSWR results based on diameter, capacitance, or other process variables
- ▶ Compatible with capacitance and diameter gauges including all AccuScan 5000 gauges and CapScan 2000
- ▶ Real time alarming and alarm history based on your alarm settings
- ▶ Recipe libraries, graph printout, data saving, and configurable features with on-screen graphs
- ▶ Expert system functionality—by referring to a customer configured “look-up table”, SRL Pro can recommend target areas/components to investigate

## System Layout



# BETA LaserMike

A Brand of NDC Technologies

## Product Specifications

### Analog Input Card

Eight-channel A to D acquisition card, PCI type

### Minimum PC Requirements

Windows® XP or Windows® 7, 32-bit

Intel™ Dual Core, 2 GB memory, 200 MB hard disk space

PCI or AGP video card with 16 MB memory

1024 x 768 pixel screen area

(System may not work properly in computers with secondary backplane.)

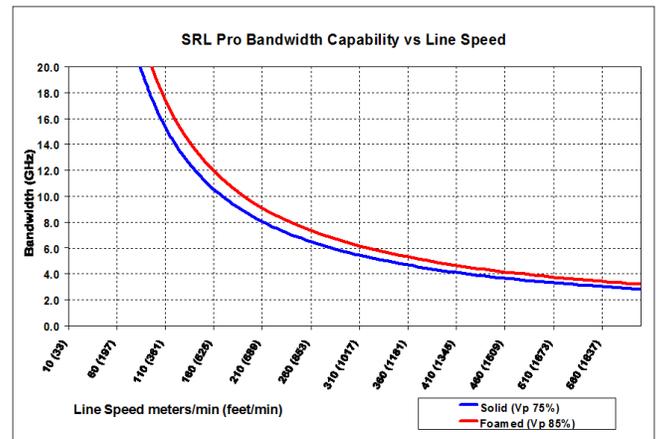
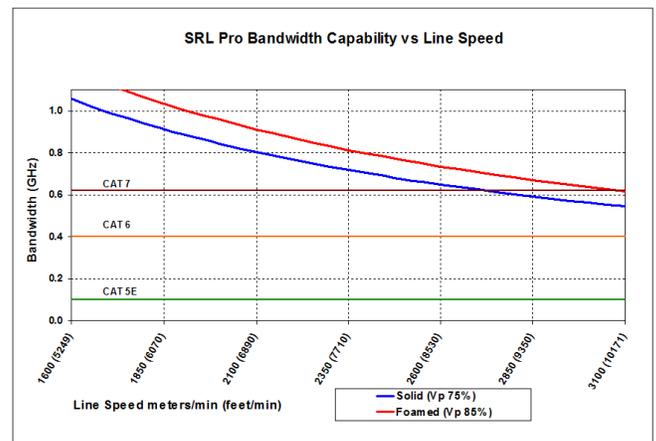
### Input Filter Box

Input voltage range:  $\pm 10$  V,  $\pm 5$  V,  $\pm 2.5$  V, and  $\pm 1.25$  V

Input current (with eight filter channels operating):  $\leq 280$  mA

### Maximum Bandwidth vs Line Speed

See charts below for bandwidth capability in Category and Coaxial cable applications.



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