

## Features

**Frequency range of 10 kHz to 10 MHz**

**Fully compliant with MIL-STD 461**

**100 Amp<sub>(AC)</sub> (forced air cooling)**

**“Air-core” inductors to prevent saturation**

**Individual Calibration Included**

**Three-Year Warranty**

## Description

The LI-4100 Line Impedance Stabilization Network (LISN) provides the necessary measurement platform for performing power line conducted emissions compliance testing as required by most worldwide standards for commercial products. The LI-4100 is compliant with MIL-STD 461F.

The LISN provides defined stable impedance and isolates the EUT from power source influences, thereby providing accurate and repeatable results.

The LI-4100 includes one pair of, separately housed, single-conductor networks, to be installed in series with each current-carrying conductor in a single-phase, dual-phase or DC power system. A second LI-4100 pair can be used to accommodate 3-phase power systems (Wye or Delta configurations).

The LI-4100 is equipped with Superior Electric SUPERCON® shrouded sockets at the mains (power input) and EUT (power output) ports. The matching color-coded plugs for connection to the mains and EUT wiring are included.

This LISN uses air-core inductors to prevent saturation and permeability variation. The mounting plate of the LI-4100 is left unpainted in order to facilitate connection to earth ground in its installation, which is essential due to high leakage current.



## Transient Protection

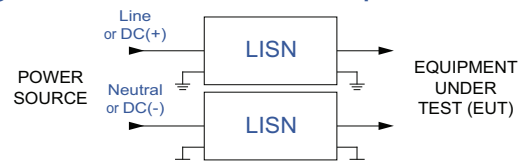
Use of a Transient Limiter for impedance matching, reduction of out-of-band emissions and transient protection for your measurement instrument is highly recommended and available from Com-Power.

## Calibration

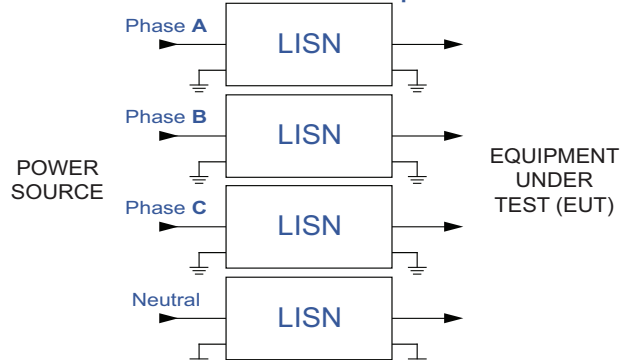
All LI-4100 LISNs are individually calibrated in compliance with the relevant requirements of MIL-STD 461F. Recognized ISO 17025 accredited calibration is also available upon request.

## Typical Connection Diagrams

### Single Phase connection with one LISN pair



### Three Phase connection with two LISN pairs

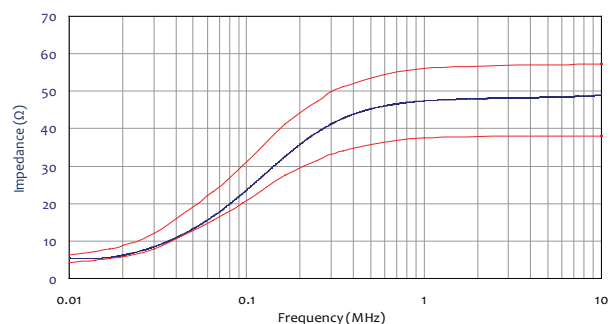


## Application

<b>Product Name</b>	Line Impedance Stabilization Network (LISN)
<b>Specification</b>	MIL-STD 461F
<b>Application</b>	Power line conducted emissions tests
<b>Frequency Range</b>	10 kHz to 10 MHz
<b>RF Connector</b>	50Ω N-type (female)
<b>Current Rating</b>	100 Amperes <sub>(AC)</sub> , 70 Amperes <sub>(DC)</sub>
<b>Voltage Rating</b>	525 VAC (Line to Ground), 740 VDC
<b>Inductors</b>	50 μH (air-core)
<b>Mains &amp; EUT Connections</b>	Superior Electric <b>SUPERCON</b> ® shrouded sockets
<b>Dimensions (each network)</b>	10 x 10 x 21 inches / 25.4 x 25.4 x 53.3 cm
<b>Weight (each network)</b>	17 lbs. / 7.7 kg

All specifications are subject to change without notice.  
All values are typical, unless specified.

## Impedance



## Insertion Loss

