

## Features

Frequency range of 9 kHz to 30 MHz

Fully compliant with CISPR 16-1-2 / ANSI C63.4

“Air-core” inductors to prevent saturation

Individual Calibration Included

Three-Year Warranty



## Description

The LI-215A 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-215A is compliant with both CISPR 16-1-2 and ANSI C63.4.

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

The LI-215A includes one pair of single-conductor networks, housed together, to be installed in series with each current-carrying conductor in a single-phase, dual-phase or DC power system. A second LI-215A pair can be used to accommodate 3-phase power systems (Wye or Delta configurations).

The LI-215A is equipped with IEC connector at the mains (power input) and NEMA 5-15R at EUT (power output) ports.

This LISN uses air-core inductors to prevent saturation and permeability variation. The mounting plate of the LI-215A is left unpainted in order to facilitate connection to earth ground in its installation, which is essential due to high leakage current.

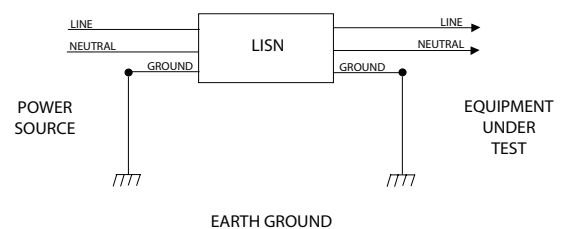
Use of a Transient Limiter for impedance matching, reduction of out-of-band emissions and transient

protection for your measurement instrument is highly recommended and available from Com-Power.

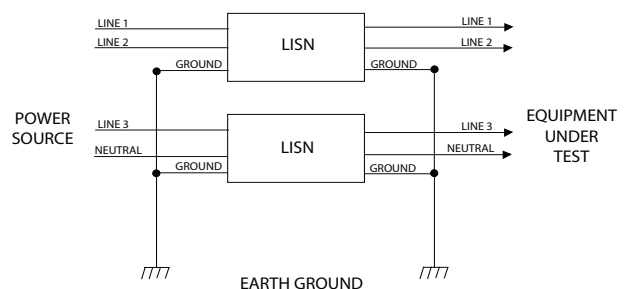
All Com-Power LISNs are individually calibrated in compliance with the relevant requirements of CISPR 16-1-2 and ANSI C63.4. Impedance, Phase, Isolation, and Insertion Loss data is supplied with each unit, along with the calibration certificate.

## Typical Connection Diagrams

### Single Phase connection with one set of LISN



### Three Phase connection with two sets of LISNs



## Application

<b>Product Name</b>	Line Impedance Stabilization Network (LISN)
<b>Specification</b>	CISPR 16-1-2 / ANSI C63.4
<b>Application</b>	Power line conducted emissions tests
<b>Frequency Range</b>	9 kHz to 30 MHz
<b>RF Connector</b>	50Ω N-type (female)
<b>Current Rating</b>	15 Amperes <sub>(AC)</sub> , 10 Amperes <sub>(DC)</sub>
<b>Voltage Rating</b>	270 VAC (Line to Ground), 380 VDC
<b>Inductors</b>	50 μH (air-core)
<b>Mains &amp; EUT Connections</b>	IEC 60320 @Mains and NEMA 5-15R @EUT
<b>Dimensions (each network)</b>	17 x 16 x 7 inches / 43 x 40 x 18 cm
<b>Weight (each network)</b>	21 lbs / 9.5 kg
<b>Insertion Loss</b>	< 6 dB (150 kHz to 30 MHz)
<b>Isolation</b>	> 20 dB (150 kHz to 30 MHz)

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

