

## Features

Frequency range of 100 kHz to 108 MHz

Fully compliant with CISPR 25 / CISPR 16-1-2

“Air-core” inductors to prevent saturation

Individual Calibration Included

Three-Year Warranty



## Description

The LI-550A 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-550A is compliant with both CISPR 25 and CISPR 16-1-2.

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

The LI-550A 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-550A pair can be used to accommodate 3-phase power systems (Wye or Delta configurations).

The LI-550A 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.

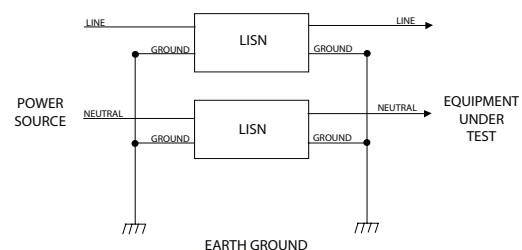
This LISN uses air-core inductors to prevent saturation and permeability variation. The mounting plate of the LI-550A is left unpainted in order to facilitate connection to earth ground in its installation, which is essential due to high leakage current.

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.

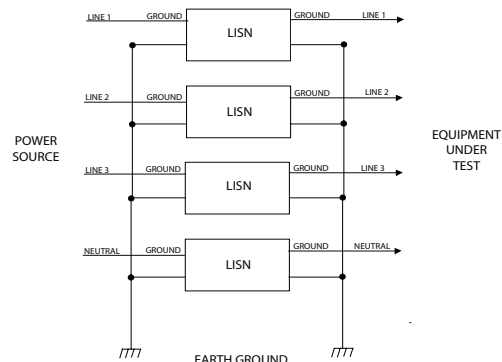
All Com-Power LISNs are individually calibrated in compliance with the relevant requirements of CISPR 25 and CISPR 16-1-2. Impedance, Phase, Isolation, and Insertion Loss data is supplied with each unit, along with the calibration certificate.

## 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 25 / CISPR 16-1-2                                      |
| <b>Application</b>                 | Power line conducted emissions tests                         |
| <b>Frequency Range</b>             | 100 kHz to 108 MHz   |
| <b>RF Connector</b>                | 50Ω N-type (female)  |
| <b>Current Rating</b>              | 50 Amperes <sub>(AC)</sub> , 35 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> | Superior Electric <b>SUPERCON</b> ® shrouded sockets         |
| <b>Dimensions (each network)</b>   | 13 x 7 x 7 inches / 33 x 17.7 x 17.7 cm                      |
| <b>Weight (each network)</b>       | 14 lbs. / 6.3 kg   |
| <b>Insertion Loss</b>              | < 1.5 dB (150 kHz to 30 MHz)                                 |
| <b>Isolation</b>                   | > 20 - 40 dB (100 kHz to 3 MHz)<br>> 40 dB (3 MHz to 30 MHz) |

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

