

Features

Frequency range of 10 kHz to 10 MHz

Fully compliant with MIL-STD 461

100 Amp_(AC) (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

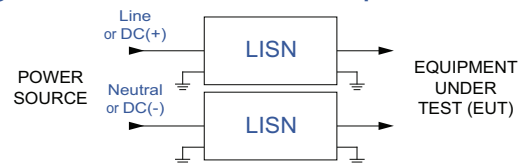
Use of a Transient Limiter for impedance matching, reduction of out-of-band emissions and transient protection for your measurement instrument is highly recommended and available from Com-Power.

Calibration

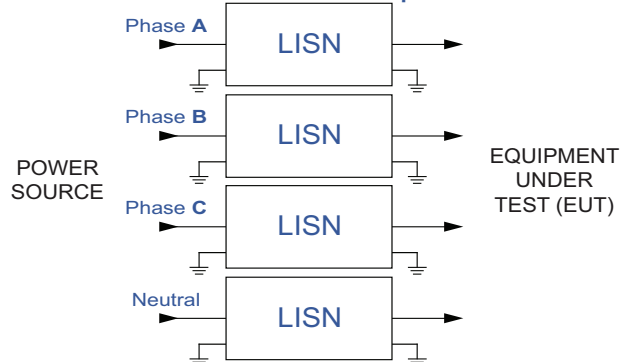
All LI-4100 LISNs are individually calibrated in compliance with the relevant requirements of MIL-STD 461F. Recognized ISO 17025 accredited calibration is also available upon request.

Typical Connection Diagrams

Single Phase connection with one LISN pair



Three Phase connection with two LISN pairs

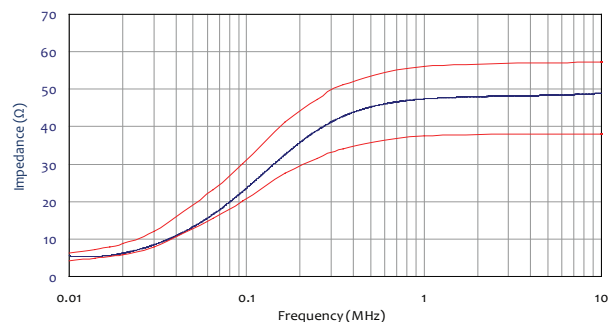


Application

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

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

Impedance



Insertion Loss

