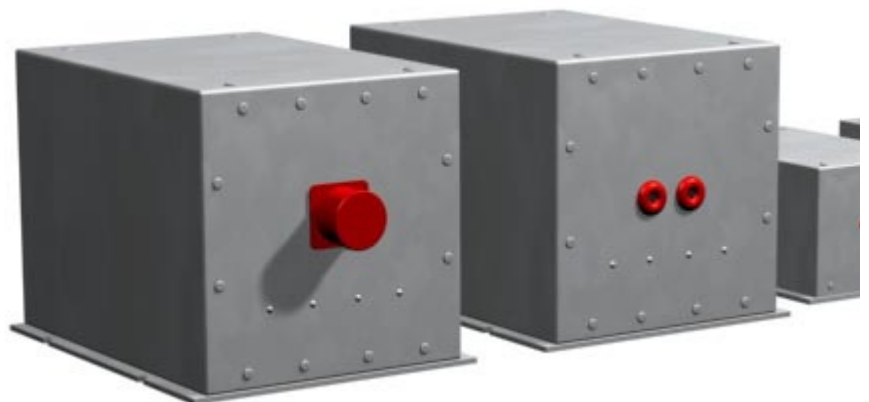
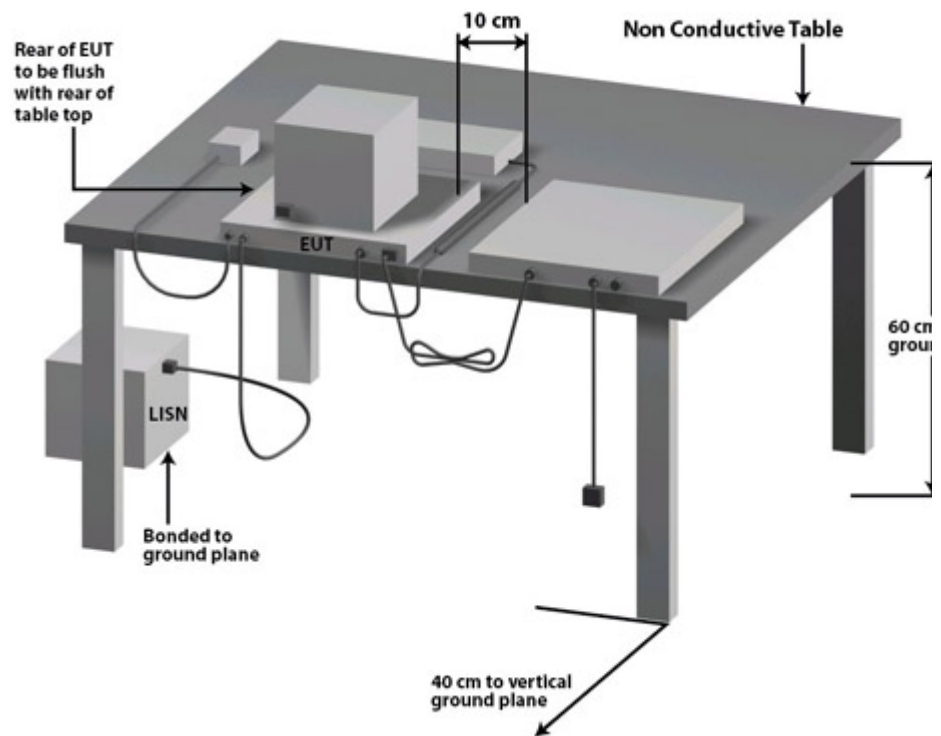


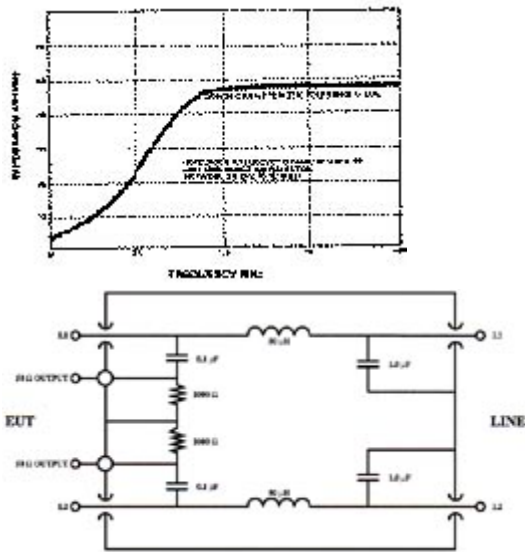
STABILIZATION NETWORKS

Line Impedance Stabilization Networks (LISN) are specialized low pass filters that prevent noise from power lines. Fischer Custom Communications, Inc. has developed LISNs to meet compliance testing requirements and custom customer needs. FCC LISNs are used for testing with CISPR, VDE, IEC, DO-160 and Mil-Std. 461/462 Rev D.

Fischer Custom Communications, Inc. develops and manufactures LISNs covering the frequency range from 6 kHz to 1,000 MHz.



A prime example of this type of LISN is the 50?50 μ H configuration defined in CISPR 16-1. The transfer impedance for this LISN are shown below. The CISPR 16-1 limit line is shown below.



The model **FCC-LISN-50-25-2** is produced in accord with the required schem requirements. The impedance versus frequency curve of this LISN is superim configuration. The 50Ω50Ω μH configuration is often used for Mil Std conduct specific details refer to Mil Std 461/462 D.

In addition to this LISN there are 50Ω versions used to test both to lower and require conducted emission measurements on electronic devices from 9 kHz a 250 μH inductor and additional resistor and capacitance networks are added defines this LISN as 50Ω50Ω μH + 5 W. This type of LISN is often used when

In contrast the aerospace, automotive and aircraft industries require conducte MHz. To achieve the higher bandwidth a 5 μH inductor is used.

Voltage and current rating of the LISN are the second characteristic. It is imprc to operate as intended. **Fischer Custom** Communications, Inc. offers LISN's line and current ratings from 16 A to 200 A..

The third parameter is the number of power conductors or lines. EMI specific leads to be tested for conducted emissions. Any neutral or ground wires not c tested. DC and AC single phase power circuits must be tested using LISN mc power network requires tests to be conducted with a LISN's containing three p system must be tested with LISN modules having four lines. To maximize flex LISN modules containing one, two and four power conductors.

Fischer Custom Communications Inc. offers over twenty connectors. The ke in compliance with IEC 1010, not cause the impedance of the LISN to vary ar **Fischer Custom** Communications Inc. LISN's come with transfer impedance We strongly recommend that IEC 320 or NEMA connectors be used to elimin:

All of **Fischer Custom** Communications, Inc. LISN's are easily mounted to th Additional grounding is available.

LISN Selection Guide Codes

Connector Code	
01	Multi-Contact Safety Socket
02	Superior Plug and Jack Safety Socket
03	IEC 320, 10 A / 16A Power
04	IEC 320, 10 A / 16A Power
05	French /Belgium 16 A Power
06	BS 1363 13 A British Power
07	CEE 7/7 16A Schuko Berman Power
08	Nema 5-15, 15 A US Power
09	Nema 5-15, 15 A US Power
10	IEC 309, 16 A 3-Wire Power
11	IEC 309, 16 A 3-Wire Power
12	Hubbel 330P6W, 30 A 3-Wire US Power
13	Hubbel 330P6W, 30 A 3-Wire US Power

- 14 Hubbel 330P6W, 30 A 3-Wire US Power
- 15 Hubbel 330P6W, 30 A 3-Wire US Power
- 16 IEC 309, 32 A 5-Wire Power
- 17 IEC 309, 32 A 5-Wire Power
- 18 IEC 309, 32 A 5-Wire Power
- 19 LC Coaxial for Tempest

Filtered LISN's remotely switched LISN's and low profile LISN's for under turn GHz are now available.

Remotely switched LISN's may be controlled by the remote control or via a pe output 0-5 volt DC logic levels. The remote control and 50 foot cable are supp remote connector is filtered to prevent external noise from entering the LISN €

LISN Selection Guide

Model	Maximum Frequency	Network Inductance	Maximum Current	*Standard Maximum Voltage
FCC-LISN-5-50-1	0.1-100 MHz	50Ω/5μH	50 A	240
FCC-LISN-5-50-1-DO-160	0.1-400 MHz	50Ω/5μH	50 A	240
FCC-LISN-5-50-1-T	0.1-1,000 MHz	50Ω/5μH	50 A	240
FCC-LISN-5-100-1	0.1-65 MHz	50Ω/5μH	100 A	240
FCC-LISN-50-50-1	0.15-100MHz	50Ω/50μH	50 A	240
FCC-LISN-50-100-1	0.15-30 MHz	50Ω/50μH	100 A	240
FCC-LISN-50-200-1	0.15-30 MHz	50Ω/50μH	200 A	240
FCC-LISN-57-50-1	0.01-10MHz	50Ω/57μH	50 A	240
FCC-LISN-50-25-2	0.15-100MHz	50Ω/50μH	25 A	240
FCC-LISN-50-32-2	0.15-100MHz	50Ω/50μH	32 A	240
FCC-LISN-50-50-2	0.15-100MHz	50Ω/50μH	50 A	240
FCC-LISN-50-32-4	0.15-100MHz	50Ω/50μH	32 A	240
FCC-LISN-50-50-4	0.15-100MHz	50Ω/50μH	50 A	240
FCC-LISN-50-100-4	0.15-30MHz	50Ω/50μH	100 A	240
FCC-LISN-50/250-25-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	25 A	240
FCC-LISN-50/250-32-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	32 A	240
FCC-LISN-50/250-32-4	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	32 A	240
FCC-LISN-50/250-50-2	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	50 A	240

FCC-LISN-50/250-50-4	0.009-100MHz	50Ω/50μH + 5Ω 50/250 μH	50 A	240
FCC-LISN-50/250-100-2	0.009-30MHz	50Ω/50μH + 5Ω 50/250 μH	100 A	240