

# Line impedance stabilization network

## LISN



**TESEO** offers a family of Line Impedance Stabilization Networks developed for use in conducted emission tests according to the most commonly adopted specifications, like CISPR, FCC, VDE, ISO. In particular CISPR 16 compliant LISN's are employed for CE marking tests while ISO and CISPR 25 compliant LISN's are popular in the automotive field.

A model for automotive test providing of electromechanical and electronic switch for transient emission tests in conformity with ISO7637-2:2004 is also available.

**The LISN's combine excellent design and manufacturing with a convenient price. Furthermore they are tested individually and the test reports released with the hardware.**

### WHAT IS A LISN FOR?







A LISN is a low pass filter placed between power supply and EUT performing the following function:

- separate the power source from the EUT with respect to the RF noise;
- provide the EUT supply line with a well known and repetitive RF impedance;
- convey the EUT generated noise on the supply lines to a 50 Ohm measuring equipment.

## FEATURES OF TESEO LISN'S

- broad range of products: single phase AC, three-phase AC, DC, various specification;
- all filters networks in one metallic box;
- manual switch for line selection;
- transient limiter to prevent the receiver from being damaged;
- artificial hand output provided;
- low frequency range covered;

## CHOOSE YOUR LISN AMONG OUR STANDARD MODELS

Model	Compliance	Frequency Range	Max Line Current	Max Line Voltage	Network Impedance	Notes	Included parts	
AN16A1P H	CISPR-16	9 kHz to 30 MHz	16A 25A for 10 min	250 Vrms	50Ω + 5Ω 50 μH+250μH	2 lines, BNCf connector	Transient Limiter	
AN16A1P H-B	CISPR16- 1-2 and MIL-STD- 461D, E	9 kHz to 30 MHz	16A 25A for 10 min	250 Vrms	50Ω + 5Ω 50 μH+250μH	BNCf or Nf Connecto r	Transient limiter; 10dB attenuator built-in	
AN32A3P H	CISPR-16	9 kHz to 30 MHz	32A 40A for 10 min	250 Vrms	50Ω + 5Ω 50 μH+250μH	4 lines	Transient limiter	
AN32A3P H-B	CISPR16- 1-2 and MIL-STD- 461D, E	9 kHz to 30 MHz	2 x 16A 4 x 32A	400 Vrms	50Ω + 5Ω 50 μH+250μH	BNCf or Nf connector	Transient limiter; 10dB attenuator built-in	
LISN1-C	ISO 7637 CISPR-25	100 kHz to 100 MHz	70A dc	60 Vdc	50Ω + 5μH	1 line, Nf connector	50 ohm Load	
LISN2-S	ISO 7637- 2:2004 (precompliance)	100 kHz to 100 MHz	50A dc	60 Vdc	50Ω + 5μH	1 line, BNCf connector	--	

**NOTE:** According to CISPR 25, the LISN1-C shall be mounted directly on the ground plane. For EUT remotely grounded (vehicle power return line longer than 200mm) two LISN1-C networks are required: one for the positive supply line and one for the power return line; for EUT locally grounded (vehicle power return line 200mm or shorter) only one LISN1-C is required for the power line, the power return line is connected to the ground plane.

## OTHER TEST EQUIPMENTS AND SERVICES AVAILABLE FROM TESEO

Design and production of fiber optic links devices and equipments for EMI/EMC tests:

- Software for automatic EMC test equipments and systems;
- Delivery of EMC "turn-key" test laboratory, screened and anechoic rooms, EMC test devices RF amplifiers, antennas, G-TEM and all you need for the electromagnetic compatibility tests;
- Technical consultant service on the electrical and electronics design;