Line Impedance Stabilization Networks / Artificial Mains
CISPR 16-1-2, 3 Phase / 4 Wire

LISN (Artifical Mains Network) is a low-pass filter typically placed between an AC or DC power source and the EUT (Equipment Under Test) to create a known impedance as per complying standard for the measurement of conducted emission. It also isolates the unwanted RF signals from the power source with pre-filter included. It provides a Radio frequency (RF) noise measurement port.

LISN is used to predict conducted emission for diagnostic, pre-compliance and compliance testing.

Scientific designs and manufactures models in compliance with CISPR 16-1-2, EN, ANSI C63.4, FCC, ETS, VCCI and VDE, MIL461E/F standards and automotive for measurements in commonly used Standards.

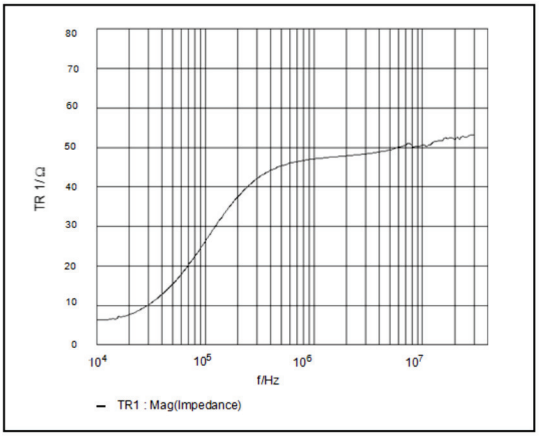
These LISNs are 3 Phase, 4 Wire networks. Appropriate line can be selected by a rotary switch. All other lines will be terminated internally with 50Ω.

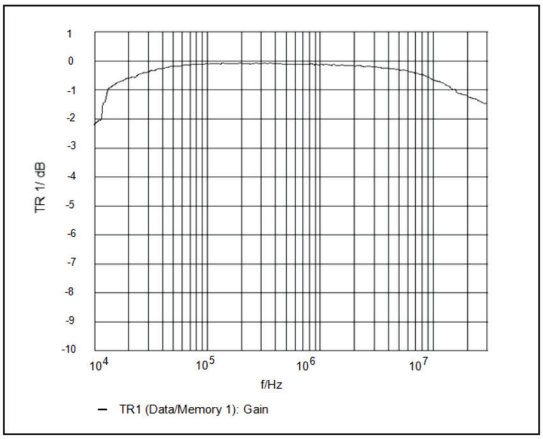
Artificial Hand simulation 510Ω + 220pF impedance in accordance with CISPR 16-1-2 is provided. Standard Input and Output terminals provided are CEE Sockets upto 100A, however optional wing terminal and SUPERCON connectors can be ordered.

A transient limiter is highly recommended to use with LISN at the front end of EMI Rx or Spectrum Analyzer to protect measuring instrument from transients.

Technical Specifications

Model	LIN20-4	LIN32-4	LIN63-4	LIN100-4	LIN200-4	LIN400-4
Frequency Range	9kHz – 30MHz					
AMN Impedance	(50µH + 5Ω) || 50Ω ± 20%					
Pre-Filter Choke	250µH				-	-
Maximum AC / DC						
Continuous Load Current	20A	32A	63A	100A	200A	400A
Peak Current (15 min)	30A	45A	80A	120A	225A	425A
Maximum Input Voltage	AC : 300V, Line ~ Line : 415V, 50 / 60Hz , DC : 600V					
Standard	CISPR 16-1-2, ANSI 63.4, FCC					
RF Output	BNC (F) Connector 50Ω to connect RF output to EMI receiver, Optional : N Type (F) Connector, Accessory for CM, DM measurements					
Switch Selection	Switch selectable for Line and Neutral					
Artificial Hand	510Ω + 220pF, 4mm banana connector					
Mains Input & Output Terminals (EUT)	CEE Industrial Connector up to 100A , Wing Terminals for 200A & 400A, Optional : Supercon / Wing Terminal					





LISNs are provided with the calibration data (insertion loss) for all the lines. Impedance, Phase and Isolation curves are supplied with every individual unit.

Subject to change

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