

Line Impedance Stabilization Networks / Artificial Mains CISPR 16-1-2 : 2014, 3 Phase / 4 Wire, 20 A to 400 A



LISN (Artificial 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 : 2014, 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: 2014 is provided. Standard Input and Output terminals provided are CEE Sockets upto 100A, however optional wing terminal and SUPERCON connectors can be ordered.

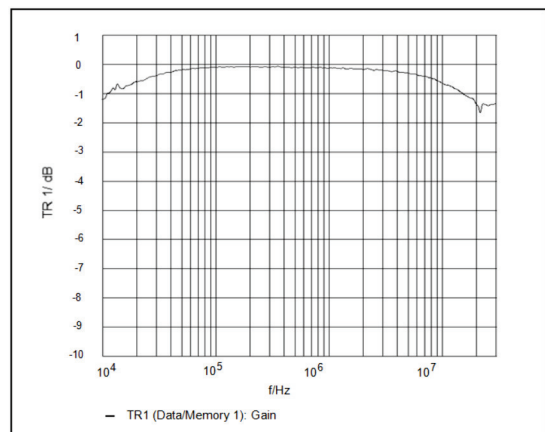
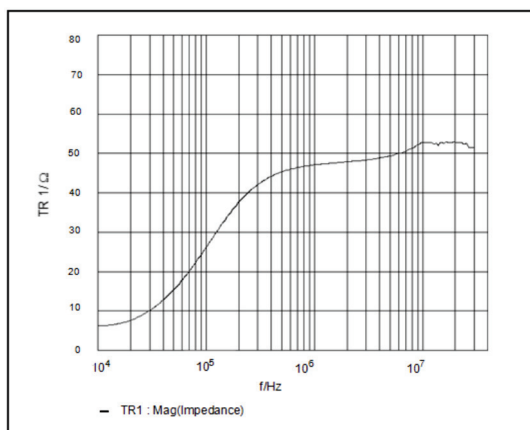
A transient limiter is highly recommended to use with LISN at the front end of EMI Rx or Spectrum Analyzer to protect measuring instrument from transients.

Technical Specifications

Model	LIN20-4	LIN32-4	LIN63-4	LIN100-4	LIN200-4	LIN400-4
Frequency Range	9 kHz – 30 MHz				150kHz (9kHz) – 30MHz	
Maximum Load Current						
Continuous Current	20 A	32 A	63 A	100 A	200 A	400 A
Peak Current (15 min.)	30 A	45 A	80 A	120 A	225 A	425 A
Maximum Input Voltage						
DC	600 V					
AC @ 50/60 Hz	Line - Neutral : 300 V, Line - Line : 480 V					
AMN Impedance	(50 μ H + 5 Ω) 50 Ω \pm 20 %					
Pre-Filter Choke	250 μ H				—	
Standard Reference	CISPR 16-1-2 : 2014, ANSI 63.4, FCC					
RF Output	BNC (F) Connector 50 Ω to connect RF output to EMI receiver, Optional : N Type (F) Connector Switch selectable for Three Lines and Neutral					
Artificial Hand	510 Ω + 220 pF, 4 mm banana connector					
Mains Input & Output Terminals (EUT)	CEE Industrial Connectors (Complying to IEC 60309) Optional : Supercon / Wing Terminal				Wing Terminals Optional : Supercon	
All LISNs are provided with manufacturer's calibration data.						

Available Options :

- High Voltage 1 kV DC / 750 Vac with Wing Terminals
- Accessories for CM DM measurement (with modification in LISN for the application)
- Transient Limiter
- Remote Control option
- Calibration Certificate traceable to ISO/IEC 17025 standard



Subject to change



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