



MAIN FEATURES

- **Coupling networks designed for voltage test IEC/EN 61000-4-19**
- **Frequency range 2 kHz to 150 kHz**
- **With 4 mm safety banana sockets**
- **For M2 and M3 applications**

CDND IEC/EN 61000-4-19
CDN IEC 61000-4-19

IEC/EN 61000-4-19 outlines the differential voltage test procedures applicable within the frequency range of 2 kHz to 150 kHz. The CDND M316-2 is a coupling/decoupling network specifically designed for single-phase mains applications, providing a robust solution for testing. This network is versatile, as it can be utilized in both configurations—with or without a protective earth connection.

The CDND M316-2 is fully compliant with the requirements of the standard, offering a straightforward and reliable method for injecting RF energy into the equipment under test (EUT). Its design ensures effective testing for electromagnetic compatibility, facilitating accurate assessments of devices' performance under various conditions. With its compact form factor, the CDND M316-2 is easy to integrate into existing test setups, minimizing space requirements. It also features durable construction, ensuring long-term reliability during repeated testing procedures.

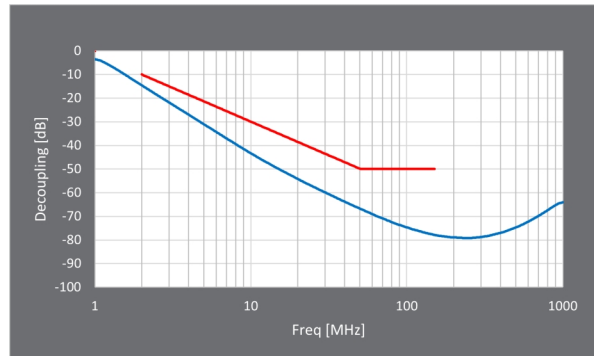
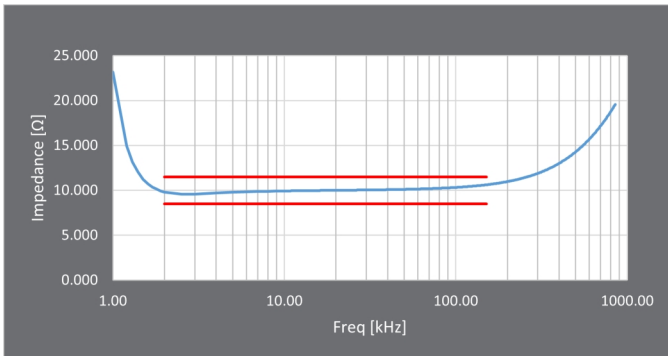
Each unit comes with verification results. Traceable and accredited calibration according to ISO 17025 are available upon request. The CDND can be ordered individually or with the CAS, which includes the necessary adapters for verification. For further details, please refer to the dedicated datasheet for CAS CDND19.

Typical performance characteristics, including limit lines for common mode impedance and decoupling factor, can also be found in this datasheet.

Electrical Specifications

	CDND M316-2
Frequency Range	2 kHz to 150 kHz
Connector EUT Port	4 mm safety banana
Connector AE Port	
AC max. voltage (L-L)	250 V
AC max. voltage (L-GND)	500 V
DC max. voltage (L-L)	400 V
DC max. voltage (L-GND)	500 V
Voltage drop (AE to EUT port)	@ 16 A DC: approx. 2.6 V @ 16 A AC: approx. 18 V
Current Max	16 A
Test Voltage, 2 sec.	1500 V DC
Common Mode Impedance (EUT Port)	10 Ω ±3 Ω

Common Mode impedance and Decoupling



RF to EUT/AE Specifications

	CDND M316-2
RF Port	4 mm safety banana
RF Voltage	<22 V
CM decoupling (AE to EUT)	2 kHz: >10 dB 50 kHz: >50 dB 150 kHz: >50 dB

General Specifications

	CDND M316-2
Dimensions (W x H x D)	162 x 162 x 470 mm ³
Net Weight	10.4 kg
Operating Environment	Indoor use only
Operating Temperature	+5°C to +40°C
Humidity	up to 80%

Accessories Information

Product	Description	Item #
CDND M316-2	CDND M316-2 Coupling/Decoupling according to IEC 61000-4-19 Network for differential mode M3, 16A for DM voltage.	247757
CDND M316-2-TC	Traceable calibration (ISO17025) for IEC 61000-4-19 requirements, order only with NSG 4060 and CDND M316-2.	97-247757
CDND M316-2-ACC	Accredited calibration (ISO17025) for IEC 61000-4-19 requirements, order only with NSG 4060 and CDND M316-2.	98-247757
CAS CDND19	Calibration kit for CDND M316-2, incl 2x MB 1-10 (Balun 50 Ω/10 Ω) and adapters, delivered in storage case, traceable calibration included.	255661