

CDND M316-2

COUPLING / DECOUPLING NETWORK FOR DIFFERENTIAL MODE (CDND)



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

IEC/EN 61000-4-19 specifies the differential voltage test in the frequency range 2 kHz to 150 kHz. Teseq offers with CDND M316-2 a coupling/decoupling network for single phase mains application. It can be used for both application with and without protective earth connection. The CDND is fully compliant with the requirements of the standard and provides a simple and reliable method of injecting RF energy into the equipment under test (EUT).

Electrical specification

Frequency range:	2 kHz to 150 kHz
Power rating (EUT- and Mains port)	
AC max. voltage (line to line / line to ground):	250 V / 500 V (50 Hz / 60 Hz)
DC max. voltage (line to line / line to ground):	400 V / 500 V
Current max:	16 A
Test voltage:	1500 V DC, 2 sec
Common mode impedance (EUT port)	
2 kHz to 150 kHz:	10 Ω $\pm$ 3 Ω
Coupling path (Generator / EUT port)	
Connection:	4 mm banana
RF voltage (2 kHz to 150 kHz):	<22 V
Voltage drop (Mains port to EUT port)	
at 16 A DC:	approx. 2.6 V
at 16 A AC (50 Hz):	approx. 18 V
Decoupling of CM disturbance (Mains port / EUT port)	
2 kHz to 50 kHz:	>10 dB to >50 dB
50 kHz to 150 kHz:	>50 dB

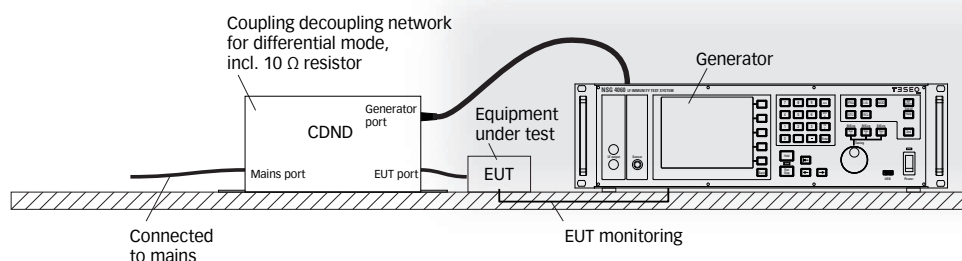
Mechanical specifications and environmental conditions

Size (W x H x D):	162 mm x 162 mm x 470 mm
Weight:	approx. 10.4 kg
Classification:	Indoor use only
Operating temperature:	+5°C to +40°C
Relative humidity:	up to 80%

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Application for IEC / EN 61000-4-19, frequency sweep in the frequency range 2 kHz to 150 kHz with Teseq NSG 4060 and voltage levels up to 22 V



Model No. and options

Part number	Description
247757	CDND M316-2 CDN M3, 16 A for DM voltage IEC 61000-4-19
97-247757	CDND 419-TC Traceable calibration (ISO17025) for IEC 61000-4-19 requirements, order only with device CDND
255661	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

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