



# Differential-mode Conducted Immunity Coupling/Decoupling Network

## CDN 419M3-32

- IEC 61000-4-19
- EN 61000-4-19
- GB/T 17626.19

### Features

- > All ports adopt 4 mm banana ports
- > Differential-mode coupling frequency 2 kHz to 150 kHz
- > Stable decoupling performance under high-load conditions
- > Compatible with 2-wire / 3-wire differential-mode tests
- > Withstand high voltage and large current, suitable for industrial applications

### Introduction

The CDN 419M3-32 is a differential-mode conducted immunity coupling/decoupling network complies with IEC 61000-4-19, GB/T 17626.19 and other domestic and international standards. It fully complies with CDN performance and cabling specifications. It supports CW signals across the wide frequency range of 2 kHz to 150 kHz, with a max. coupling voltage of 30 V (rms).

Adopts optimized built-in decoupling circuit, which effectively isolates interference signals from the test circuit. It keeps the DUT operating signals unaffected and guarantees accurate and repeatable test results.

### Application Areas



## Technical Parameters

|                       |                                   |
|-----------------------|-----------------------------------|
| Coupling Frequency    | 2 kHz ~ 150 kHz, CW               |
| Coupling Voltage      | 30 V (rms)                        |
| Coupling Mode         | 2-wire/3-wire common-mode (L-N)   |
| Coupling Element      | 12 $\mu$ F capacitor              |
| Coupling Capability   | -10 dB ~ -50 dB (2 kHz ~ 150 kHz) |
| Test Voltage          | Max. 250 V AC (L-N)               |
| Test Current          | Max. 32 A                         |
| AE/EUT Port           | 4 mm banana port                  |
| Signal Injection Port | 4 mm banana port                  |

## General Parameters

|                     |                                   |
|---------------------|-----------------------------------|
| Weight              | Approx. 10 kg                     |
| Dimension           | 360 mm(L) * 220 mm(W) * 135 mm(H) |
| Enclosure Material  | Aluminum                          |
| Ambient Temperature | 15°C ~ 35°C                       |
| Relative Humidity   | 45% ~ 75%                         |

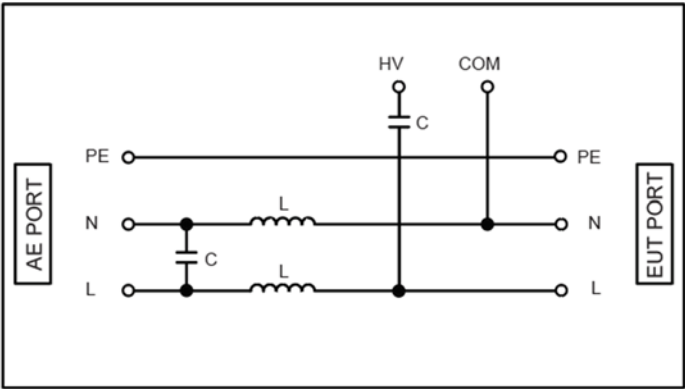
## Standard Accessories

|            |
|------------|
| Test Cable |
|------------|

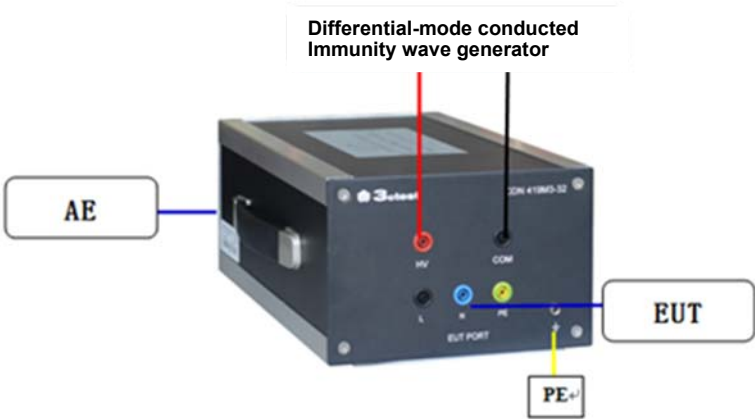
## Optional Accessories

|   |                                             |                                                                                                                |                                                                                       |
|---|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 | Common-mode Conducted Disturbance Simulator | Model: RSG 40C20(DMS)<br>Frequency: 2 kHz~150 kHz<br>Output voltage: 0.1 V ~ 40 V<br>Output current: 5 A (rms) |  |
| 2 | Balanced-unbalanced Impedance Converter     | Model: Balun50/10<br>For CDN characteristic test<br>Number: 2                                                  |  |
| 3 | Differential-mode Voltage Test Module       | Model: R419-10<br>Impedance 10 $\Omega$ for CDN characteristic test                                            |                                                                                       |

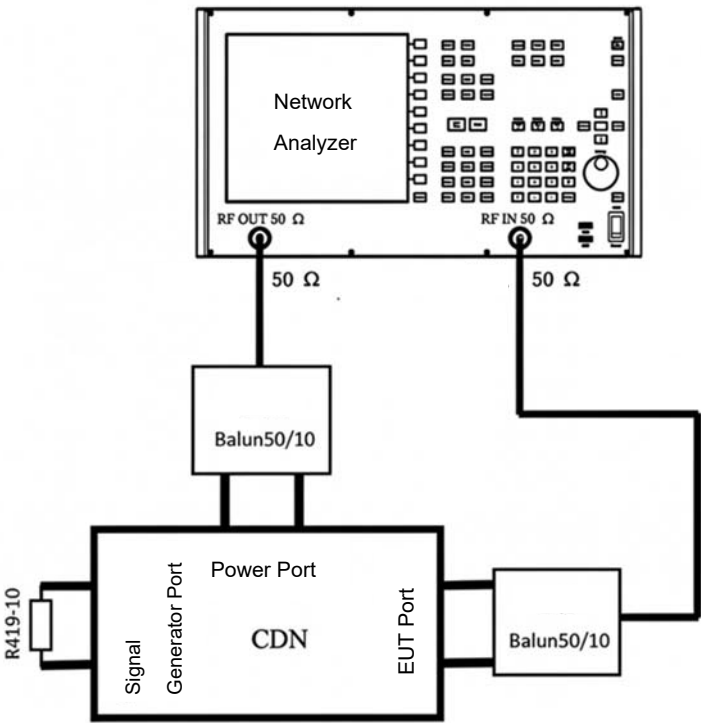
Schematic Diagram



Test Connection Diagram



CDN Calibration Diagram



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