



Common-mode Conducted Immunity Coupling Network

CN 416M4N-100

- IEC 61000-4-16
- EN 61000-4-16
- GB/T 17626.16

Features

- > All ports adopt coaxial design for easy and efficient signal injection and device connection.
- > High voltage and high current rating for industrial use
- > Built-in quick shorting switch, optimized for DC coupling with easy operation

Introduction

The CN 416M4N-100 Coupling Network complies with IEC 61000-4-16, GB/T 17626.16 and other domestic and international standards. It is applicable to common-mode conducted immunity tests on 3-phase 4-wire power lines within the frequency range of 0 Hz to 150 kHz.

The CN 416M4N-100 supports CW signals across a wide frequency range of DC/15 Hz ~ 150 kHz. The max. coupling voltage is 300 V (rms), which covers standard test scenarios and meets stringent test requirements. It ensures stable data transmission during tests, accurately reproduces the actual communication status of devices, and guarantees accurate and repeatable test results.

Suitable for communication, medical, railway, aerospace, new energy and other fields, accelerating EMC certification.

Application Areas



Technical Parameters

Coupling Frequency	0 Hz ~ 150 kHz, CW
Coupling Voltage	300 V (rms)
Coupling Mode	4-wire common-mode (to ground simultaneously)
Coupling Component	1 μ F capacitor
Coupling Resistance	400 Ω * 4
Test Voltage	Max. 690 V AC(L-L)
Test Current	Max. 100 A
AE/EUT Port	100 A coaxial terminal
Signal Injection Port	4 mm banana port

General Parameters

Weight	Approx. 5 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 Cables, Plug, Grounding Wire

Optional Accessories

1	Common-mode Conducted Disturbance Simulator	Model: CDS 300 Frequency: 0 Hz(DC) ~ 165 kHz Max. voltage: 300 V	
2	Isolation Transformer	Used for common-mode signal decoupling of 3-phase 4-wire power lines.	

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