

# Coupling and Decoupling Networks for Data Cables and Control

## Cables

## CDN 405M40



### In Compliance with

- > IEC 61000-4-5
- > EN 61000-4-5
- > GB/T 17626.5

### Introduction

The CDN 405M40 is designed in accordance with IEC 61000-4-5 and GB/T17626.5 and used for coupling surge onto 2-line (1-pair) unshielded unsymmetrical data and control cables for voltage up to 6 kV. All the plugs are type of banana to ensure the safety of users.

### Features

- > Applied to 2 lines (1 pair) unshielded unsymmetrical Lines;
- > Equipped with banana plugs ensuring the safety of users;
- > Applied to 1.2/50  $\mu$ s, 8/20  $\mu$ s combination waves

### Application Areas

- > Communication
- > Telecom
- > Medical
- > Broadcast
- > Railway
- > IT
- > Military
- > Avionics
- > New energy power

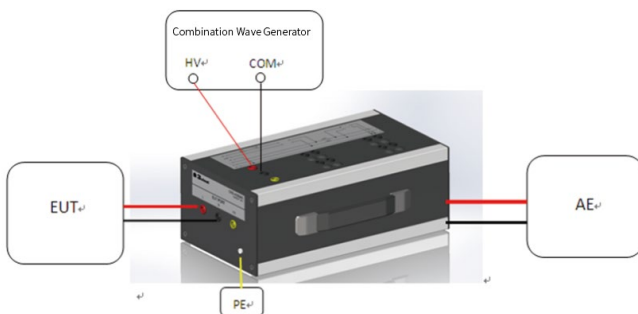
Technical Parameters	
Model No.	CDN 405M40
Standard	IEC/EN 61000-4-5
Coupling Waveform	1.2/50 $\mu$ s、8/20 $\mu$ s
Output Impedance	40 $\Omega \pm 5\%$
Impulse Voltage	6 kV
Coupling Component	0.5 $\mu$ F capacitor (Built-in, Standard equipped)
Coupling Mode	2 lines (1 pair) unshielded unsymmetrical line
Communication Interface Specification	Banana plug 4 mm
Working Voltage	Max. 250 V AC/DC
Working Current	Max. 16 A
Decoupling Inductance	1.5 mH
Residual Voltage	<15% (Coupling surge voltage)

General Parameters	
Weight	Approx. 10 kg
Dimension	360 mm (L) x220 mm (W) x135 mm (H)
Enclosure Material	Aluminum alloy
Ambient Temperature	15°C - 35 °C
Relative Humidity	45%-75%
Package Case	Carton

### Accessories

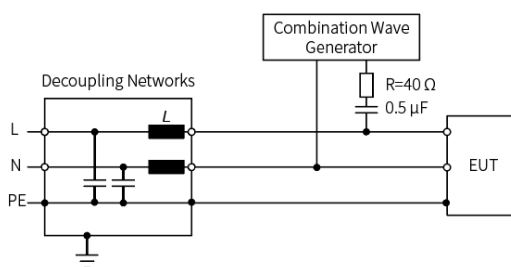
Test line, User manual, Short-circuit plug

### Test Connection Schematic Drawing

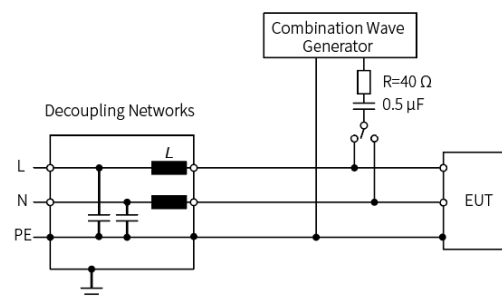


Standard Schematic Diagram Figure 1

Standard Schematic Diagram Figure 2



As per IEC 61000-4-5: 2017 Figure 5



As per IEC 61000-4-5: 2005 Figure 6



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