



Data and Control Lines Coupling/Decoupling Network **CDN 405M40**

- IEC/EN 61000-4-5
- EN 50121-3-2
- GB/T 17626.5
- GB/T 24338.5

Features

- > Max. pulse voltage 6 kV
- > Support EMC generators of all brands, quick connection without extra adaptation
- > Superior decoupling, no extra auxiliary protection; plug-and-play to cut setup cost

Introduction

The CDN 405M40 complies with IEC/EN 61000-4-5 and GB/T 24338.5. It is a professional CDN developed for lightning surge immunity tests on railway power supply ports. It supports line-to-ground and line-to-line tests, with a maximum pulse voltage of 6 kV.

The CDN 405M40 with excellent decoupling capability, can protect auxiliary equipment from influence of interferences, cut system complexity and improve test efficiency greatly.

Application Areas



Technical Parameters

Coupling Waveform	1.2/50 μ s, 8/20 μ s
Output Impedance	40 Ω , $\pm 5\%$
Pulse Voltage	Max. 6 kV
Coupling Elements	0.5 μ F capacitor built-in standard accessories
Coupling Method	one pair of two-conductor unshielded asymmetrical lines
Communication Interface Specifications	4 mm banana plug
Working Voltage	Max. 250 V AC/DC
Working Current	Max. 16 A
Decoupling Inductor	1.5 mH
Residual Voltage	< 15% (coupled surge voltage)

General Parameters

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

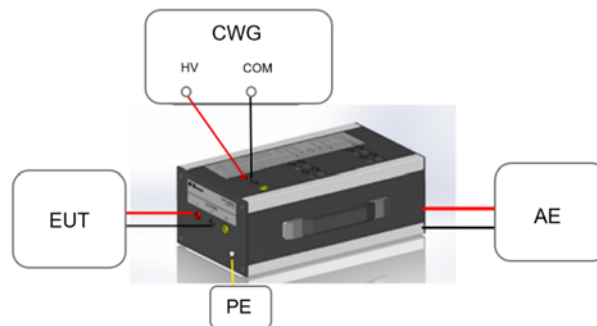
Standard Accessories

Test Cable, Shorting Plug, User Manual

Optional Accesories

1	Wave/Surge Simulator	Model: CWS 600 Output Voltage: 0.25 kV ~ 6.0 kV	
---	----------------------	---	---

Connection Schematic Diagram



Design Schematic 1

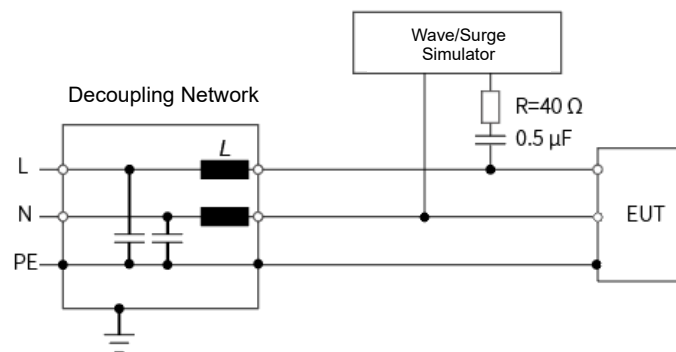


Figure 1 designed according to IEC 61000-4-5: 2017 Figure 5

Design Schematic 2

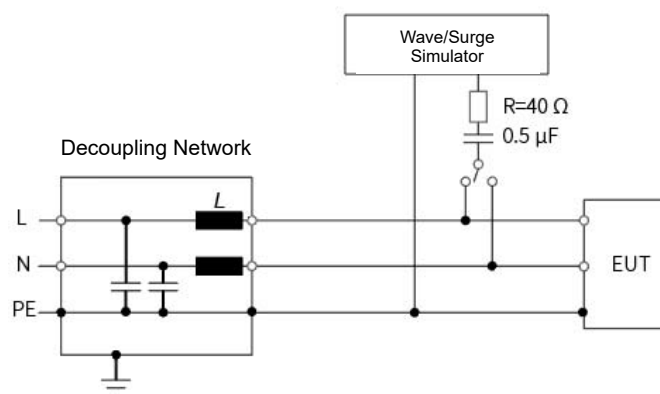


Figure 2 designed according to IEC 61000-4-5: 2005 Figure 6

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.