



Coupling/Decoupling Network for Surge Testing on Unshielded Unsymmetrical Communication Lines **CDN 405AF4** (Only 1.2/50, 8/20 waveforms included)

■ IEC/EN 61000-4-5

■ ITU-T K.20

■ ITU-T K.21

■ ITU-T K.44

■ ITU-T K.45

■ GB/T 17626.5

— Features

- > Max. test is 2 A
- > Max. transmission rate is 100 Kbit/s
- > Compatible with all brands of EMC generators without additional adaptation
- > Excellent decoupling performance, no extra protection required for auxiliary equipment
- > Coupling Waveforms are 1.2/50 μ s and 8/20 μ s
- > Unshielded 1/2/3/4-line; Line-to-Line / Line-to-Ground
- > Replace current limiting resistors, couplers and decoupling devices according to test requirements

— Introduction

The CDN 405AF4 is designed to couple surge pulses onto unshielded unsymmetrical communication lines for voltage up to 6 kV and max. transmission rate is 100 Kbit/s. It fully meets the requirement of ITU-T K.20, ITU-T K.21, ITU-T K.44, ITU-T K.45, GB/T 17626.5 and IEC/EN 61000-4-5.

Data transmission stays stable throughout the test, accurately reproducing the actual communication status of the device, and ensuring repeatable and accurate test results.

— Application Areas



Technical Parameters

Coupling Waveform	1.2/50 μ s, 8/20 μ s
Impulse Voltage	6 kV
Coupled Mode	Unshielded 1/2/3/4-line; Line-to-Line / Line-to-Ground
Coupled Module	CD-GDT90, CD-TVS76, and CD-C05 (optional)
Decoupling Module	DP-GDT90, DP-TVS76, DP-TVS 200, DP-C250 (optional)
Output Impedance	40 Ω impedance module
Communication Interface Specification	4 mm banana plug
Data Rate	100 kbit/s
Working Voltage	It is determined by coupling module and decoupling module
Working Current	Max. 2 A
Decoupling inductance	20 mH

General Parameters

Weight	Approx. 14 kg
Dimension	475 mm(L) * 235 mm(W) * 195 mm(H)
Enclosure Material	Aluminum
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

Test Cables, Current Limiting Module, User Manual

Optional Accessories

1	Wave/Surge Simulator	Model: CWS 600 Output Voltage: 0.25 kV ~ 6.0 kV	
2	Coupling Module	Model: CD-GDT90 Clamping Voltage: DC 90 V	
3	Coupling Module	Model: CD-TVS76 Clamping Voltage: DC 76 V	
4	Coupling Module	Model: CD-C05 Capacitor: 0.5 μ F Rated Voltage: DC 1,000 V	

Optional Accesories

5	Decoupling Module	Model: CD-GDT90 Clamping Voltage: DC 90 V	
6	Decoupling Module	Model: CD-TVS76 Clamping Voltage: DC 76 V	
7	Decoupling Module	Model: CD-TVS200 Clamping Voltage: DC 200 V	
8	Decoupling Module	Model: DP-C250 Rated Voltage: AC 250 V	
*One coupling module and one decoupling module must be purchased as optional accessories for CDN operation. Residual voltage waveform and amplitude vary with decoupling module type.			

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.