



Coupling/Decoupling Network for Surge Testing on Unshielded Unsymmetrical Communication Lines **CDN 405AF8(2A)**

■ 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 8-line; Line-to-Line / Line-to-Ground
- > Replace current limiting resistors, couplers and decoupling devices according to test requirements

— Introduction

The CDN 405AF8(2A) 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	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. 22 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.			

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