



Coupling/Decoupling Network for Data and Control Lines

CDN 405M40-32

■ IEC/EN 61000-4-5

■ EN 50121-3-2

■ GB/T 17626.5

■ GB/T 24338.5

— Features

- > Max. pulse voltage 6 kV
- > Support 10 Mbit/s signal transmission rate
- > Support EMC generators of all brands, quick connection without extra adaptation
- > Superior decoupling, no extra auxiliary protection; plug-and-play to cut setup cost
- > The coupling and decoupling module can be replaced with capacitors, GDTs, TVSs and others

— Introduction

The CDN 405M40-32 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 405M40-32 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 Element	0.5 μ F capacitor
Coupling Method	4-wire unshielded asymmetrical lines
Communication Interface Specifications	4 mm banana plug
Working Voltage	Max. 250 V AC/DC
Working Current	Max. 32 A
Decoupling Inductor	1.5 mH
Fan Voltage & Current	24 V DC / 2 A

General Parameters

Weight	Approx. 24 kg
Dimension	475 mm (L)*235 mm (W)*195 mm (H)
Enclosure Material	Aluminum alloy
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

Test Cable, Impedance Module, Coupling Module, Decoupling Module, Adapter

Optional Accessories

1	Lightning 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	

Optional Accesories

4	Decoupling Module	Model: CD-GDT90 Clamping Voltage: DC 90 V	
5	Decoupling Module	Model: CD-TVS76 Clamping Voltage: DC 76 V	
6	Decoupling Module	Model: CD-TVS200 Clamping Voltage: DC 200 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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