



Lightening Surge Coupling/Decoupling Network **CDN 405M3-16**

- IEC/EN 61000-4-5
- GB/T 17626.5
- TB/T 3498

Features

- > Max. pulse withstand voltage 8 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
- > Coupling and decoupling circuits are independently usable
- > Coupling module replaceable with capacitors, GDTs, TVSs

Introduction

The CDN 405M3-16 for lightening surge complies with IEC/EN 61000-4-5, GB/T 17626.5 and TB/T 3498. It is a professional CDN developed for lightning surge immunity testing on railway power supply ports. Its coupling and decoupling circuits can be used separately and independently. The maximum pulse withstand voltage reaches 8 kV.

The CDN 405M3-16 allows test engineers to select coupling elements according to test conditions with an external pluggable coupling module, and supports line-to-ground as well as line-to-line tests. With excellent decoupling capability, it can protect auxiliary equipment from influence of interferences, cut system complexity and improve test efficiency greatly, meeting compliance verification requirements for industrial, railway and other sectors.

Application Areas



Technical Parameters

Coupling Waveform	1.2/50 μ s, 8/20 μ s combination wave 10/700 μ s, 5/320 μ s combination wave (coupling circuit only) 4/300 μ s voltage wave (coupling circuit only)
Pulse Withstand Voltage	8 kV
Coupling Elements	9 μ F/18 μ F capacitors (external coupling module CD-C18 μ F, standard accessories)
Coupling Method	Line-to-line Line-to-ground
Communication Interface Specifications	4 mm banana plug
EUT Load Capacity	Max. AC 300 V 20 A
Decoupling Inductor	1.5 mH
Residual Surge Voltage (Power Port of CDN)	$\leq 15\%$ of applied test impulse voltage/ $\leq$ twice the peak rated voltage of CDN

General Parameters

Weight	Approx. 15 kg
Dimension	235 mm (W)*195 mm (H)*475 mm (D)
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Adapter, Test Cable, Grounding Wire, Coupling Module RCD-C18 μ F, User Manual

Optional Accessories

1	Wave/Surge Simulator	Model: CWS 800 Output Voltage: 0.5 kV ~ 8.0 kV	
2	Coupling Element	Model: CD-GDT90 Output Voltage: DC 90 V	
3	Coupling Element	Model: CD-TVS76 Output Voltage: DC 76 V	
4	Coupling Element	Model: CD-C05 Capacitor: 0.5 μ F	

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