

## Unshielded Symmetric Line Coupling Decoupling Network

### CDN 405T8(POE 10KV)



#### In Compliance With

- > IEC 61000-4-5
- > EN 61000-4-5
- > GB/T 17626.5

#### Introduction

CDN 405T8 (POE 10KV) coupling/decoupling network is suitable for (surge test) 4 pairs of 8-wire unshielded symmetric high speed (POE) communication line coupling decoupling network with peak voltage up to 10KV. Designed in strict accordance with IEC 61000-4-5:2017 standards. The maximum data transfer rate is 1,000 MBit/s. Using high magnetic conductivity material as decoupling device, decoupling performance and transmission rate are stable, small size and easy to carry and use.

#### Features

- > Meet the requirements of IEC/EN 61000-4-5:2005 and IEC/EN 61000-4-5:2017 Figure 11;
- > Used together with surge generator;
- > Coupled waveform 1.2/50  $\mu$ s, 8/20  $\mu$ s; 10/700 $\mu$ s, 5/320 $\mu$ s;
- > Transmission rate 1000 Mbit/s;
- > Powerful surge resistance, standard withstand voltage up to 10 kV.

#### Application Areas

- |                 |                       |
|-----------------|-----------------------|
| > Communication | > Telecom             |
| > IT            | > Military            |
| > Medic         | > Avionics            |
| > Broadcast     | > New Energy          |
| > Railway       | > New Energy Vehicles |

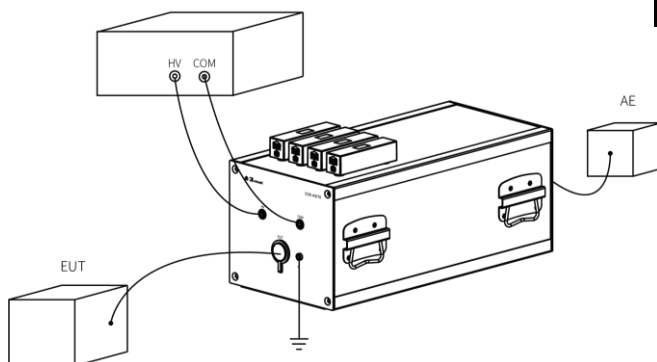
Technical Parameters	
Model	CDN 405T8 (POE 10KV)
Standard	IEC/EN 61000-4-5
Coupling	1.2/50 $\mu$ s, 8/20 $\mu$ s
Waveform	10/700 $\mu$ s, 5/320 $\mu$ s
Pulse Voltage	10 kV
Coupling Mode	4-pair-8-line unshielded line Common mode (line to ground)
Coupling Components	TVS
Communication Port	RJ45 female connector to connect communication line
Pin Assignment	Pair 1: pins 1 / 2 Pair 2: pins 3 / 6 Pair 3: pins 5 / 4 Pair 4: pins 7 / 8
Data Transmission Rate	1,000 MBit/s
Working Voltage	AC 50 V, DC 70 V
Working Current	Max. 1 A
Residual Voltage	<200 V (耦合浪涌电压)
Decoupling Inductance	20 mH

General Data	
Weight	Approx. 41 kg
Dimension	600 mm(L)×310 mm(W)×310 mm(H)
Enclosure	Aluminum
Ambient Temperature	15 °C ~ 35 °C (operation condition)
Relative Humidity	45% ~ 75% (operation condition)
Packaging Box	Carton

Standard Accessories		
Test Line	100F/RT	1 Pcs
Test Line	100F/ SW	1 Pcs
Test Line	150 A Yellow-green	1 Pcs
Short-Circuit Plug	U -type	8 Pcs
Current Limiting Module	NR 160 $\Omega$	4 Pcs
Cable	1 m cat 6 Network cable	2 Pcs
Data	original test certificate	1 part
	operation manual	1 part

Optional Accessories		
Current Limiting Module	NR 12.5 $\Omega$	4 Pcs

Test Connection Illustration:





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