



## CDN 117 DATA LINE COUPLING/DECOUPLING NETWORK



- Data line surge testing
- Easy to use bench top housing
- Conforms to IEC/EN 61000-4-5
- Complete set includes all accessories

Teseq's **CDN 117 coupling-decoupling network** enables convenient testing with surge pulses of 1.2/50  $\mu$ s on data, signal or peripheral lines, as specified in many product standards. The test method, severity levels, permissible reaction of the EUT and specification of the coupling networks are included in IEC/EN 61000-4-5.

**The compact CDN 117 is a complete set of coupling elements** consisting of:

- The decoupling network itself
- Interface cables to the surge generator
- A coupling adapter with a 0.5  $\mu$ F capacitor
- A coupling adapter with a spark gap device
- A coupling adapter with a 0.1  $\mu$ F capacitor in parallel with a spark gap device

**All coupling methods described in IEC/EN 61000-4-5** for unshielded unsymmetrical line pairs can be performed both in differential- and common mode coupling (line-to line and line-to-ground).

**The user can manually select coupling modes** by connecting the surge generator's output to the appropriate input of the CDN 117.

**Several CDN 117s can be arranged in parallel** for applications in which more than two conductors must be decoupled.

**The CDN 117 can be easily interfaced with the EUT** and is designed as a bench top unit. It can be used with Teseq's NSG series or any industry standard surge generator with the appropriate connector adapter.

# CDN 117

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### Technical specifications

Signal line:		
Max operating voltage:	AC	250 V
	DC	250 V
Max operating current:	1.5 A	
Ohmic resistance per path:	<2.5 $\Omega$	
Decoupling chokes 1 kHz:	20 mH nominal	
Pulse:	1.2/50 $\mu$ s pulse	
Max pulse voltage:	6.6 kV	
Series resistor:	2 x 40 $\Omega$ , 6 W	
Coupling adapters:	INA 170	spark gap device, 90 V trip voltage
	INA 171	capacitor 0.1 $\mu$ F/spark gap device, 90 V trip voltage
	INA 174	capacitor 0.5 $\mu$ F

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