



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 μ 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 μ F capacitor
- A coupling adapter with a spark gap device
- A coupling adapter with a 0.1 μ 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

DATA LINE COUPLING/DECOUPLING NETWORK

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 Ω
Decoupling chokes 1 kHz:	20 mH nominal
Pulse:	1.2/50 μ s pulse
Max pulse voltage:	6.6 kV
Series resistor:	2 x 40 Ω , 6 W
Coupling adapters:	INA 170 spark gap device, 90 V trip voltage INA 171 capacitor 0.1 μ F/spark gap device, 90 V trip voltage INA 174 capacitor 0.5 μ F