



CDN 118 TELECOM LINE COUPLING/DECOUPLING NETWORK



Teseq's CDN 118 coupling-decoupling network is designed for convenient surge testing of telecommunications equipment to IEC/EN 61000-4-5, which specifies a 1.2/50 μ s or a 10/700 μ s pulse. The CDN 118 includes the special decoupling network and coupling elements that are required for these tests.

The CDN 118 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.

The compact CDN 118 is a complete set of coupling elements consisting of:

- **Telecom line surge testing**
- **Complies with IEC/EN 61000-4-5**
- **Complete set includes all accessories**
- **Easy to use bench top housing**

- The decoupling network itself
- Interface cables to the surge generator
- Four coupling adapters with a spark gap device
- Four coupling adapters with a spark gap device and a 0.1 μ F capacitor
- Matching resistor network 4 x 100 Ω
- Matching resistor network 4 x 160 Ω

The user can manually select coupling modes by connecting the generator's output to the appropriate input. All coupling methods described in the standard can be configured with the CDN 118.

CDN 118

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Technical specifications

Max. operating voltage:	AC 250 V	
	DC 250 V	
Max. operating current:	0.5 A	
Ohmic resistance per path:	3 Ω	
Decoupling chokes 1kHz:	20 mH nominal	
Pulse:	1.2/50 μ s and 10/700 μ s pulse	
Max. pulse voltage:	6.6 kV line to ground, 3 kV line to line	
Accessories:		
Resistor networks:	INA 172	4 X 100 Ω , 6 W
	INA 175	4 X 160 Ω , 6 W
Coupling adapters:	INA 170	Spark gap device, 90 V trip voltage
	INA 171	Capacity 0.1 μ F//spark gap device, 90 V trip voltage
	INA 173	Short circuit connector