



CDN A800, A150

COUPLING / DECOUPLING NETWORK (CDN)

CDN AF TYPE



IEC/EN 61000-4-6 specifies the design and performance of a range of coupling/decoupling networks (CDNs). Each CDN is specific to the type of cable and the intended signal carried on the cable. Teseq offers an extensive range of CDNs which fully comply with the requirements of the standard and provide a simple and reliable method of injecting RF energy into the equipment under test (EUT).

Whilst the published standard only specifies the performance of CDN from 150 kHz to 80 MHz, most of Teseq CDNs are specially designed to give the same performance to a wider frequency range. This is required by some product specific standards.

Each CDN is also useable for emission testing. Special types meet the requirements of CISPR 15 or can be used as impedance stabilization network (ISN) defined in CISPR 22.



CDN A800

- Used for unshielded, unbalanced lines, carrying low current
- Up to 15 lines
- Designed for IEC/EN 61000-4-6
- D-Sub sockets
- Performance up to 230 MHz

Technical specifications CDN A800, A150

Frequency range:	150 kHz to 230 MHz
Line parameters:	unshielded, unbalanced
Power rating (EUT- and AE port)	
AC max. voltage (line to ground):	63 V
DC max. voltage (line to ground):	100 V
Current max :	200 mA
Test voltage:	250 V DC, 2 sec
Common mode impedance (EUT port)	
150 kHz to 26 MHz:	150 Ω ±20 Ω
26 MHz to 230 MHz:	150 Ω +60 Ω / -45 Ω
Coupling path (In/Out port/EUT)	
Connection:	BNC 50 Ω
RF voltage:	<15 V
Voltage division factor (RF input to EUT port)	
150 kHz to 80 MHz:	9.5 dB ±1 dB
80 MHz to 230 MHz:	9.5 dB +3 dB / -2 dB
Transmission bandwidth (wanted signal) EUT/AE B3 dB:	> 20 kHz sin.
Decoupling of CM disturbance (RF port / AE)	
150 kHz:	>30 dB
1.5 MHz:	>60 dB
30 MHz:	>50 dB
230 MHz:	>35 dB

Mechanical specifications

Size (W x H x D):	100 mm x 100 mm x 240 mm
Weight:	approx. 1.5 kg



Advanced Test Solutions for EMC

CDN A800, A150

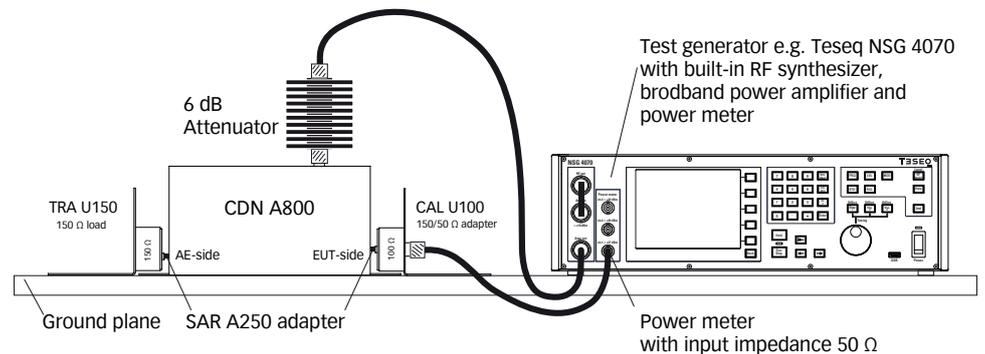
COUPLING / DECOUPLING NETWORK (CDN) CDN AF TYPE

Product name	Application	Connector EUT port	Connector AE port
CDN A800	8 lines application	D-Sub 25 pins (Pin 1 to 8)	D-Sub 25 pins (Pin 1 to 8)
CDN A150	15 lines application	D-Sub 25 pins (Pin 1 to 15)	D-Sub 25 pins (Pin 1 to 15)

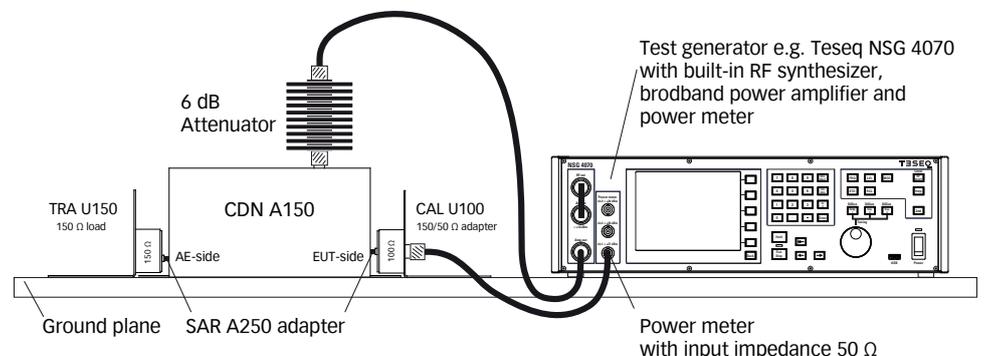


Connector CDN A800 and CDN A150

Test set-up calibration with CDN A800



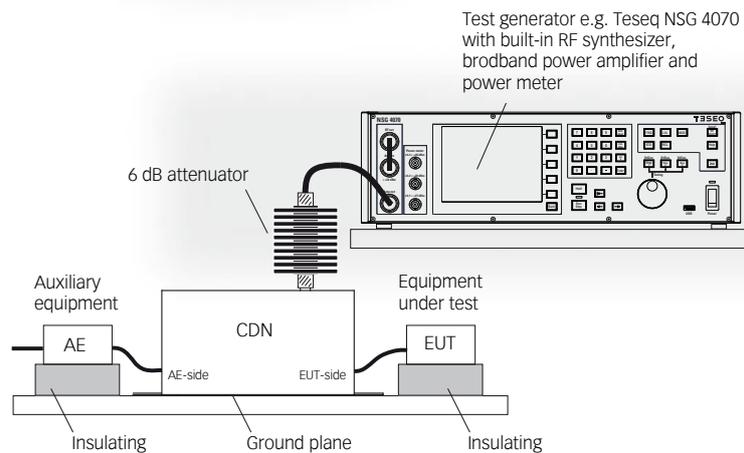
Test set-up calibration with CDN A150



CDN A800, A150

COUPLING / DECOUPLING NETWORK (CDN) CDN AF TYPE

EUT test set-up



Delivery information

Part number	Description
243010	CDN A800 CDN AF8, 230 MHz with sub-D
244124	CDN A800S CDN AF8, 230 MHz with sub-D with calibration adapter set in suitcase
233012	CDN A150 CDN AF15, 230 MHz with sub-D
244126	CDN A150S CDN AF15, 230 MHz with sub-D with calibration adapter set in suitcase
97-231024	CDN-TC Traceable calibration (ISO17025) for IEC 61000-4-6 requirements, order only with device CDN M, AF, S or T00x type
239901	CAL U100 Universal calibration unit (150 Ω / 50 Ω adapter)
243050	SAR A250* Shorting adapter for CDN A150 / A250 / A800 / A900
239903	TRA U150 Universal termination resistor 150 Ω AE side
*) The calibration set-up required 2x SAR A250	