



# CDN S501, S751

## COUPLING / DECOUPLING NETWORK (CDN)

### CDN S 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. This type can be used as impedance stabilization network (ISN) defined in CISPR 22.



CDN S501

- Used for coaxial cables
- Designed for IEC/EN 61000-4-6
- BNC sockets

#### Technical specifications CDN S501, S751

Frequency range:	150 kHz to 230 MHz
Power rating (EUT- and AE port)	
AC max. voltage (line to ground):	250 V
DC max. voltage (line to ground):	400 V
Current max :	250 mA
Test voltage:	750 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:	<20 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:*	> 2 GHz sin.
Decoupling of CM disturbance (RF port / AE)	
150 kHz:	>60 dB
1.5 MHz:	>60 dB
30 MHz:	>50 dB
230 MHz:	>40 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

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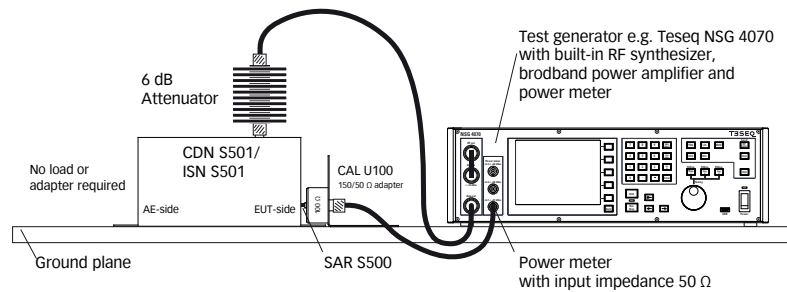
## COUPLING / DECOUPLING NETWORK (CDN) CDN S TYPE

Product name	Application	Connector EUT port	Connector AE port
CDN S501	50 $\Omega$ coaxial line	BNC 50 $\Omega$	BNC 50 $\Omega$
CDN S751	75 $\Omega$ coaxial line	BNC 75 $\Omega$	BNC 75 $\Omega$

### Test set-up calibration with CDN S501



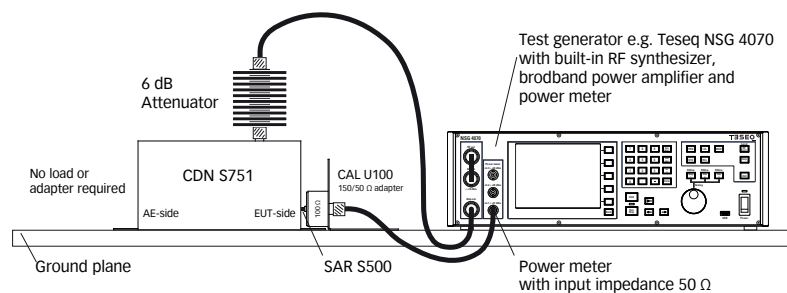
CDN S501 AE connector



### Test set-up calibration with CDN S751



CDN S501 EUT connector

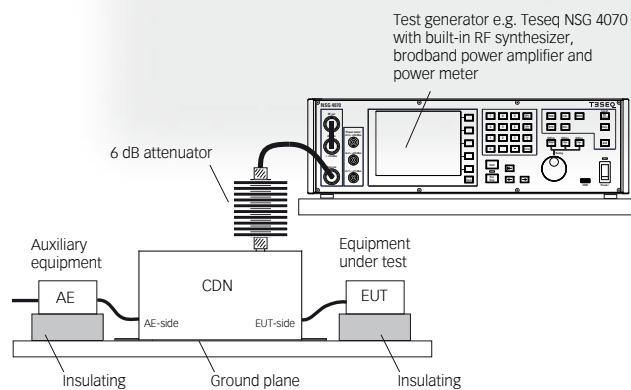


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#### EUT test set-up



#### Delivery information

Part number	Description
231004	CDN S501 CDN S1, 230MHz (BNC 50Ohm)
244141	CDN S501S CDN S1, 230MHz (BNC 50Ohm) with calibration adapter in suitcase
231014	CDN S751 CDN S1, 230MHz (BNC 75Ohm)
244142	CDN S751S CDN S1, 230MHz (BNC 75Ohm) with calibration adapter 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
97-248650	ISN Sxxx-TC Traceable calibration (ISO17025), for CISPR 22 requirements, order only with CDN/ISN ST08 or CDN/ISN S501
239901	CAL U100 Universal calibration unit (150 $\Omega$ /50 $\Omega$ adapter)
239939	SAR S500 Calibration adapter part for CDN/ISN S501/S751