



# CDN S150, S200, S250, S400, S900

## 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. Special types meet the requirements of CISPR 15 or can be used as impedance stabilization network (ISN) defined in CISPR 22.



CDN S900

- Used for screened cables
- Up to 25 lines
- Designed for IEC/EN 61000-4-6
- Types with D-Sub sockets
- Performance up to 230 MHz

#### Technical specifications CDN S150, S200, S250, S400 and S900

Frequency range:	150 kHz to 230 MHz
Power rating (EUT- and AE port)	
AC max. voltage (line to ground):	150 V (CDN S400: 34 V)
DC max. voltage (line to ground):	150 V (CDN S400: 34 V)
Current max :	250 mA
Test voltage:	500 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:*	> 20 kHz 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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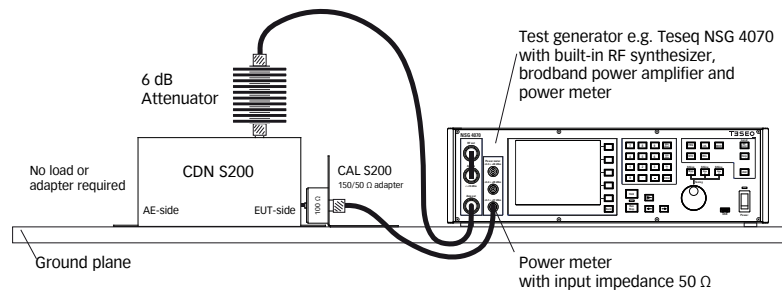
### CDN S TYPE

Product name	Application	Connector EUT port	Connector AE port
CDN S200	2 wires, screened, XLR-Audio, pin 3 to ground	XLR, 3 pins	XLR, 3 pins
CDN S400	4 wires, screened, DIN-Audio, 5 pins, pin 2 to ground	DIN, 5 pins	DIN, 5 pins
CDN S900	9 wires, screened data line, RS232	D-Sub 9 pins	D-Sub 9 pins
CDN S150	15 wires, screened data line	D-Sub 15 pins	D-Sub 15 pins
CDN S250	25 wires, screened data line	D-Sub 25 pins	D-Sub 25 pins

#### Test set-up calibration with CDN S200



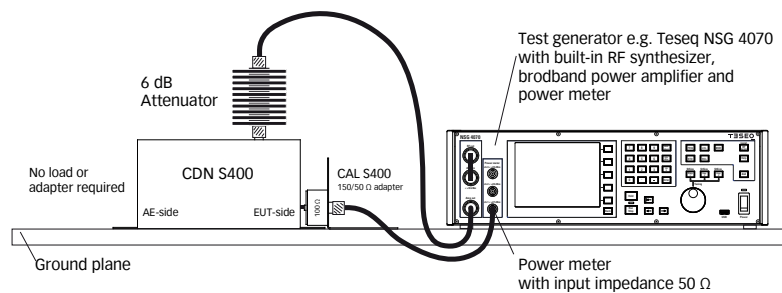
Connector CDN S200



#### Test set-up calibration with CDN S400



Connector CDN S400



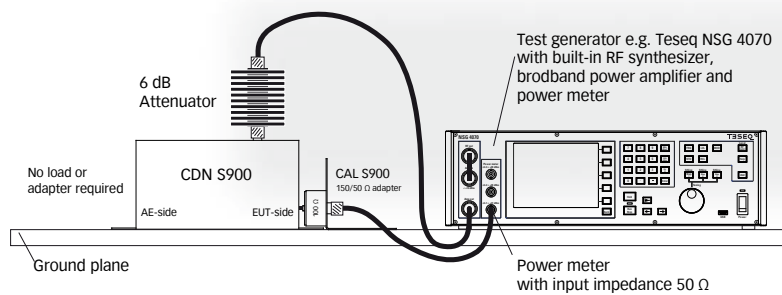
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## COUPLING / DECOUPLING NETWORK (CDN) CDN S TYPE

**Test set-up calibration with CDN S900**



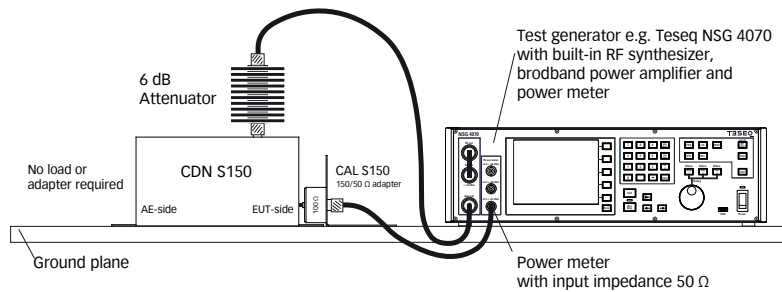
**Connector CDN S900**



**Test set-up calibration with CDN S150**



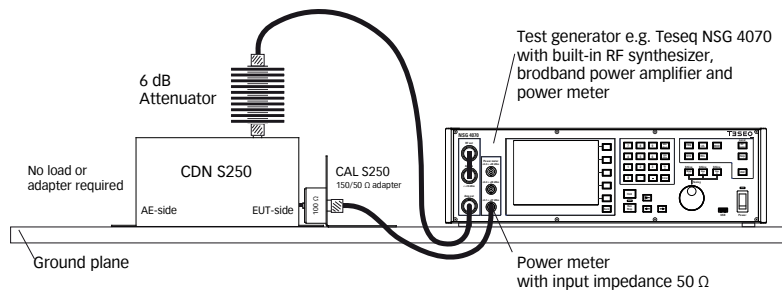
**Connector CDN S150**



**Test set-up calibration with CDN S250**



**Connector CDN S250**

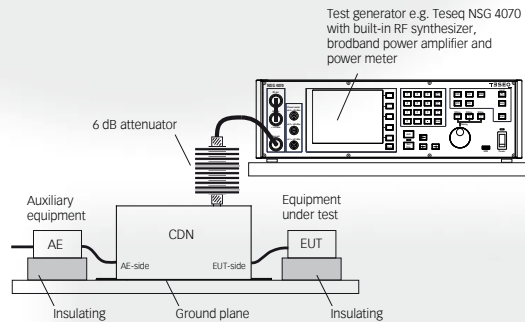


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#### EUT test set-up



#### Delivery information

Part number	Description
231008	CDN S150 CDN S15, 230MHz (D-sub)
244147	CDN S150S CDN S15, 230MHz (D-sub) with calibration adapter in suitcase
231005	CDN S200 CDN S2, 230MHz (audio)
244144	CDN S200S CDN S2, 230MHz (audio) with calibration adapter in suitcase
231009	CDN S250 CDN S25, 230MHz (D-sub)
244148	CDN S250S CDN S25, 230MHz (D-sub) with calibration adapter in suitcase
231006	CDN S400 CDN S4, 230MHz (DIN)
244145	CDN S400S CDN S4, 230MHz (DIN) with calibration adapter in suitcase
231007	CDN S900 CDN S9, 230MHz (D-sub)
244146	CDN S900S CDN S9, 230MHz (D-sub) 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
234077	CAL S150 Calibration unit for CDN S150 (150 Ω /50 Ω adapter)
234074	CAL S200 Calibration unit for CDN S200 (150 Ω /50 Ω adapter)
234078	CAL S250 Calibration unit for CDN S250 (150 Ω /50 Ω adapter)
234075	CAL S400 Calibration unit for CDN S400 (150 Ω /50 Ω adapter)
234076	CAL S900 Calibration unit for CDN S900 (150 Ω /50 Ω adapter)