



CDN USB/C, USB/P COUPLING / DECOUPLING NETWORK (CDN) CDN S TYPE







CDN USB/c

- Designed for IEC/EN 61000-4-6
- USB/c for test central devices
- USB/p for test peripheral devices

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).

Specially designed to test the universal serial bus, now common on most PCs, this CDN is fitted with a USB plug (input and output) and can be used for up to 100 V and up to 1000 mA. Two different types are available as shown in the table below:

Product name	Line type	Application	Connector EUT port	Connector AE port
CDN USB/c	USB, screened	USB for central devices	USB "B" type 	USB "A" type 
CDN USB/p	USB, screened	USB for peripheral devices	USB "A" type 	USB "B" type 

Technical specifications CDN USB/c, USB/p

Frequency range:	150 kHz to 230 MHz
Power rating (EUT- and AE port)	
AC max. voltage (line to ground):	100 V
DC max. voltage (line to ground):	100 V
Current max :	1 A
Test voltage:	200 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:	> 80 MHz sin. (data pair balanced)

CDN USB/C, USB/P

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USB "A" type:
AE connector of CDN USB/c
EUT connector of CDN USB/p

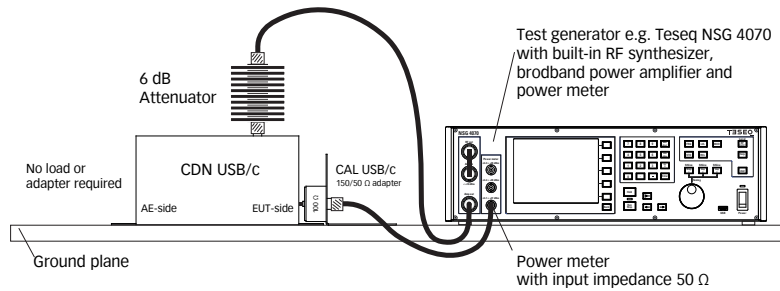
Technical specifications CDN USB/c, USB/p (continued)

Decoupling of CM disturbance (RF port / AE)	
150 kHz:	>60 dB
1.5 MHz:	>60 dB
30 MHz:	>50 dB
230 MHz:	>40 dB

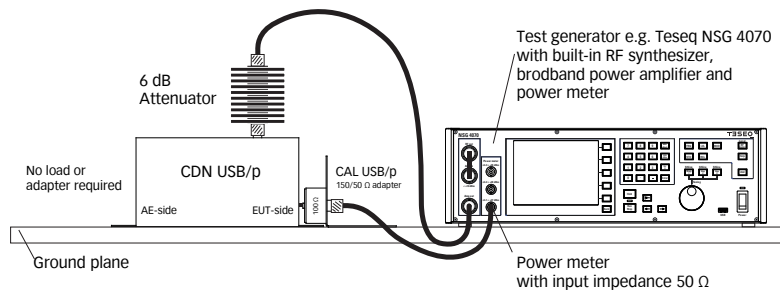
Mechanical specifications

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

Test set-up calibration with CDN USB/c

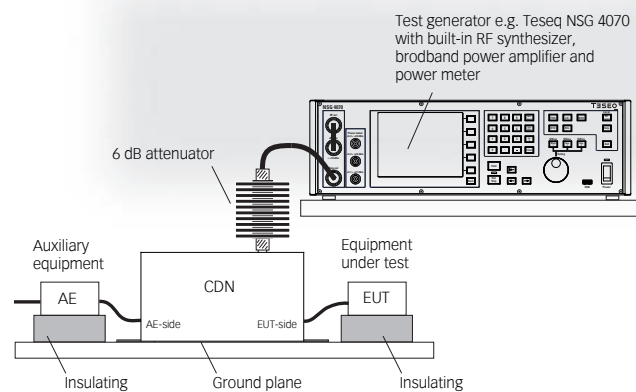


Test set-up calibration with CDN USB/p



CDN USB/C, USB/P COUPLING / DECOUPLING NETWORK (CDN) CDN S TYPE

EUT test set-up



Delivery information

Part number	Description
237501	CDN USB/c CDN with USB connector (EUT-central device)
244150	CDN USB/cS CDN with USB connector (EUT-central device) and calibration adapter CAL USB/c in suitcase
237503	CDN USB/p CDN with USB connector (EUT-peripheral device)
244151	CDN USB/pS CDN with USB connector (EUT-peripheral device) and calibration adapter CAL USB/p 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
237577	CAL USB/c Calibration unit for CDN USB/c
237578	CAL USB/p Calibration unit for CDN USB/p