



Features

- EM-clamp for immunity testing of cables with up to 20 mm diameter
- High coupling factor: less than 15 watts amplifier output power is required to obtain a test level of 10 V
- Calibration unit and calibration data are supplied with each instrument

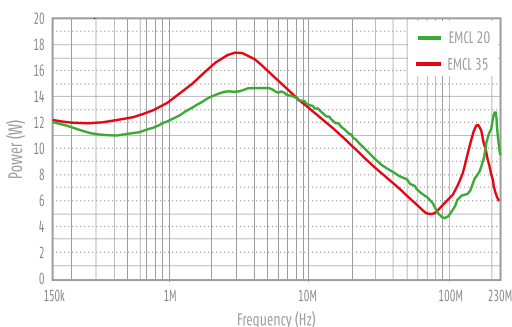
Description

According to IEC/EN 61000-4-6 the preferred coupling and decoupling devices are the CDNs, for reasons of test reproducibility and protection of the AE. However, if they are not suitable or available, clamp injection should be used.

Often, clamp injection needs to be applied to multi-pair balanced cables because suitable CDNs might not be available.

The EM clamp establishes both capacitive and inductive coupling to the cable connected to the EUT.

The EM clamp (in contrast to the conventional current injection clamp) has a directivity ≥ 10 dB, above 10 MHz, so that a defined impedance between the common-mode point of the AE and the ground reference plane is no longer required. Above 10 MHz, the behavior of the EM clamp is similar to that of a CDN.



Measured amplifier output power to obtain a test level of 10 V. 6 dB attenuator and 80% amplitude modulation depth are taken into account.



Calibration unit of EMCL (included as standard)

Technical Specifications	EMCL-20	EMCL-35
Frequency range	10 kHz-1000MHz	10kHz-1000MHz
Nominal impedance	50Ω	50Ω
Connector	N-type female	N-type female
Maximum input level		
0.15MHz-100MHz	100W, 15 min.	100W, 15 min.
100MHz-230MHz	100W, 5min.	100W, 5min.
230MHz-1000MHz	50W, 3 min.	50W, 3 min.
Cable diameter	<20mm	<37
Weight	7 kg	14 kg
Dimension (LxWxD)	655 x 120 x 80mm	666x135x120mm

EM DECOUPLING CLAMP – ABCL-20

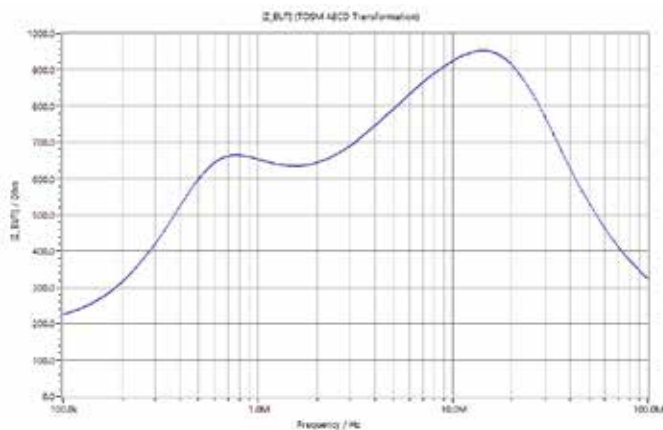
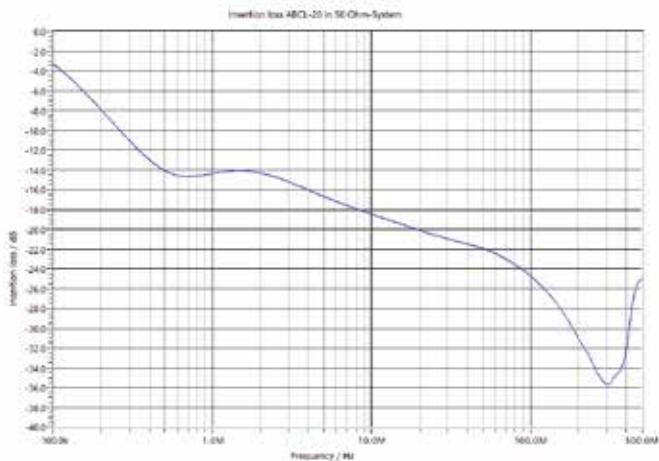
acc. to IEC/EN 61000-4-6, ED.4



Decoupling clamp for immunity testing cables up to 20 mm diameter

Description

The ABCL-20 is recommended as an additional decoupling network (ferrite tube clamp) for immunity test according to IEC / EN 61000-4-6 when using the clamp injection method. It shall be used on all cables between EUT and AE except the cable under test. The ABCL-20 prevents that the test signal applied to the EUT affects other devices, equipment or systems, which are under test and improve the reproducibility of the test results.



Technical Specifications

Frequency range	100 kHz – 1000 MHz
Max. diameter of cable	<20 mm
Measurement (L x W x H)	632 mm x 120 mm x 80 mm
Weight	7 kg

