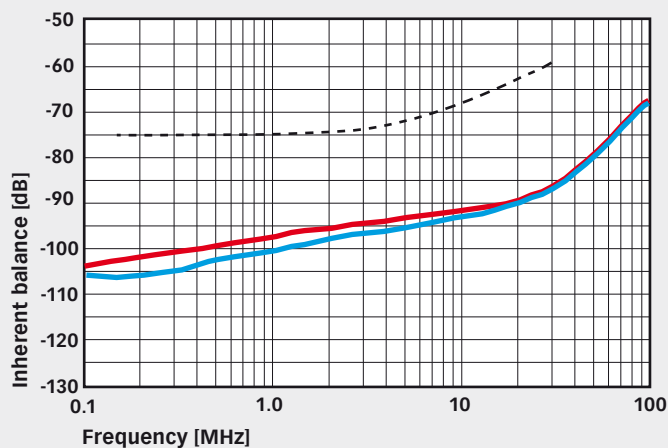## CAS ISN
CALIBRATION KIT FOR ISN T

The calibration kit CAS ISN is made for function tests and remeasurements on impedance stabilization network (ISN) for unshielded balanced pairs. Measuring parameters are common mode (CM) impedance, phase angle, voltage division factor, decoupling attenuation (isolation) and longitudinal conversion loss (LCL). Impedance stabilization networks (ISN) are defined in CISPR 22 and CISPR 16-1-2. The CISPR 16-1-2 gives additional requirements and provides examples and measurements for the networks. The ITU-T recommendations G.117 and O.9 offers the background knowledge for measurements on symmetrical telecommunication lines.

CAS ISN with all options in suitcase

- Meets CISPR 22 ed. 5.2 and CISPR 16-1-2
- Optional extensible for measurements on ISN T2 and ISN T8-Cat6
- Measurements for common mode impedance, phase angle, voltage division factor, decoupling attenuation (isolation) and longitudinal conversion loss (LCL)

Technical specifications BMB 1000 (LCL measuring bridge)

Frequency range:	100 kHz to 100 MHz
Impedance for the network analyzer ports:	50 Ω
Connector:	BNC-type female
Impedance for the balanced port:	100 Ω
Connectors for the balanced ports and ground:	1 mm banana
Inherent balance:	as given in the diagram
Return loss (150 kHz to 30 MHz):	>20 dB
Dimension (LxWxH):	87 mm x 29 mm x 27 mm
Weight:	approx. 95 g

Inherent balance of LCL measuring bridge BMB 1000

- – - LCL requirements of CISPR 22 ed. 5.2 for Cat.6, ▬ typical value for BMB 1000 connected with 100 Ω termination, ▬ typical value for BMB 1000 connected with PI circuit of CISPR 16-1-2 picture E.3a
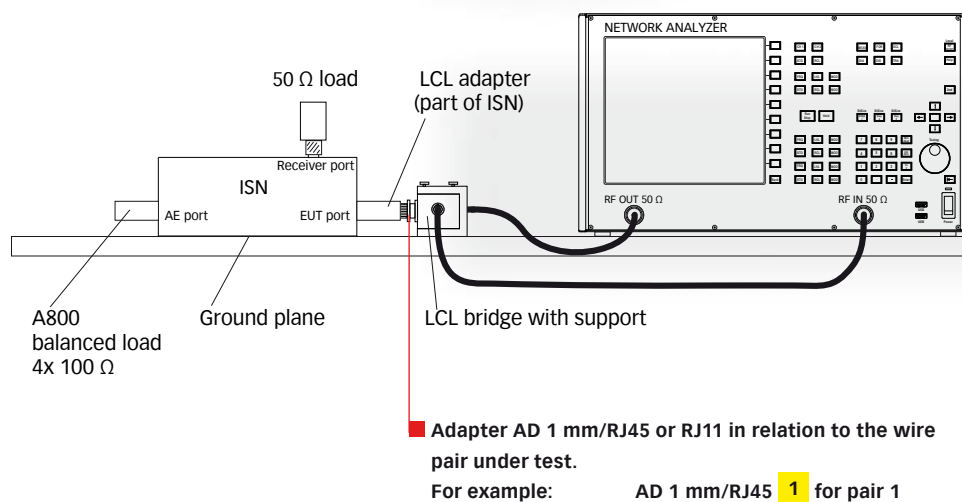
CAS ISN
CALIBRATION KIT FOR ISN T

Example for measuring the LCL on ISNs with LCL adapter with RJ45 or RJ11

NETWORK ANALYZER

50 Ω load

LCL adapter
(part of ISN)

Receiver port

ISN

AE port   EUT port

RF OUT 50 Ω   RF IN 50 Ω

A800
balanced load
4x 100 Ω

Ground plane

LCL bridge with support

■ **Adapter AD 1 mm/RJ45 or RJ11 in relation to the wire pair under test.**
For example: **AD 1 mm/RJ45** 1 **for pair 1**

BMB 1000, LCL measuring bridge

Mechanical specifications of CAS ISN

Size (W x H x D):	390 mm x 110 mm x 290 mm
Weight:	approx. 2.3 kg

Delivery information

Part number	Description
248580	CAS ISN Calibration kit for ISN T8 and ISN T4
248632	CAS ISN extension for T2A* Adapter parts for calibration of ISN T2A, required CAS ISN
248631	CAS ISN extension for cat.6* Adapter parts for calibration of ISN T8-Cat6, required CAS ISN
*) The BMB 1000 LCL measuring bridge is required for adjusting the options back in the factory.	

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