

Datasheet

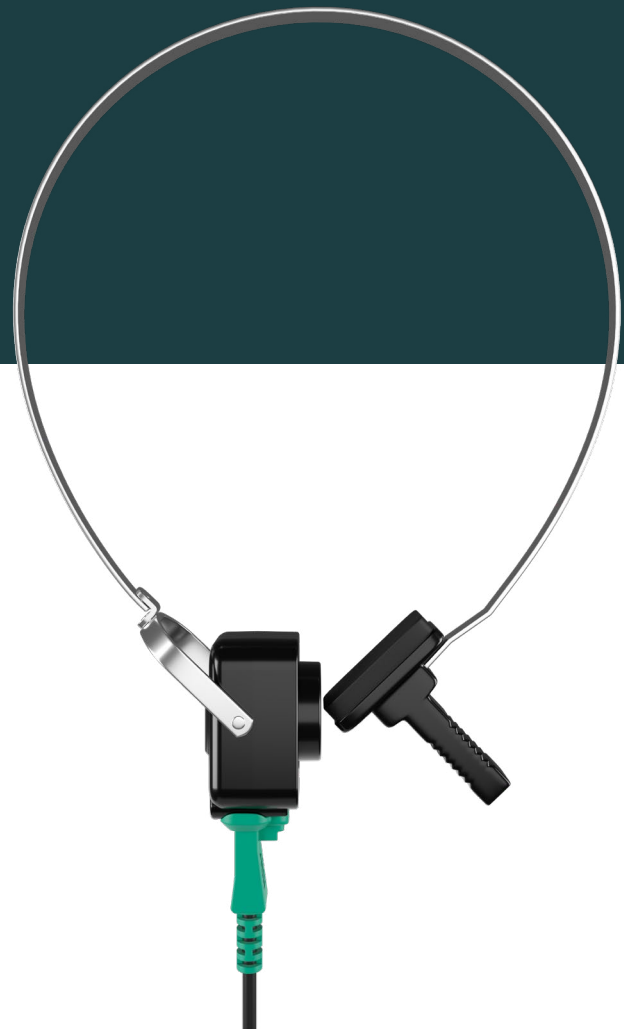
BC1 Bone Conductor

Bone Conductor for Audiological Hearing Loss Measurements

“ Austrian based audiology experts Audiometrix, has evaluated the Real Ear transducers under simulated real-clinic conditions using professional audiometric calibration procedures and equipment. The transducers demonstrated stable and consistent performance aligned with clinical and industry expectations ”

Features

- **Sturdy and reliable bone conductor**
- **High-quality audio performance, specifically designed for hearing loss testing**
- **Headbands supported: BCHB1 (Real Ear - new 2025)**
- **Cable length 2.5m**
- **Padding, headband and cable available as spare part for repair/refurbishment**
- **Full medical certification as Class 2a Medical Device**
- **Biocompatibility ISO 10993-1**
- **RoHS compatible, lead, nickel and latex free**



Auditdata

Technical Specifications (nominal)

Related Standards	IEC-60645-1:2017, ANSI S3.6:2018 (R2023)
Frequency Range	250 Hz – 4000 Hz
Output Sound Level Range	-10 – 80 dB HL
Output Sound Level Precision*	+/- 3 dB
Sensitivity*	96dB VFL at 1kHz, 1 mW
Distortion*	500Hz-4KHz and max. 5.5% at 25dB HL @ 250Hz
Nominal Impedance	10 ohm (+/- 15%)

*At time of manufacturing

Product Specifications

Cable Length	250 cm
Cable Plugs	DIN, Mini-DIN, Mono Jack, Mono Mini-Jack
Headband pressure	5.4N +/-0.5N
Dimensions	150x120x23 mm
Dimensions, packaging	190x135x30 mm
Weight	90 g (with packaging)

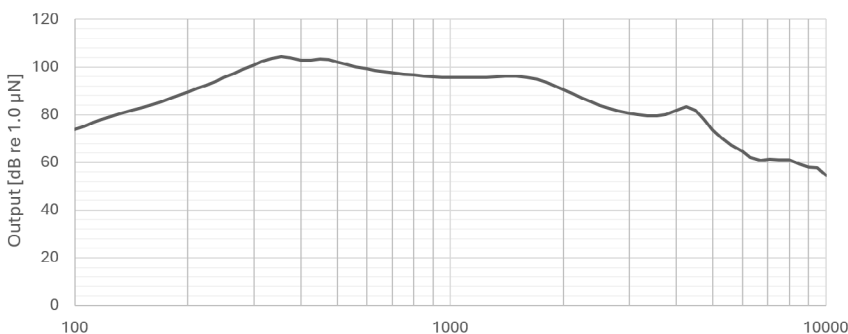
Document References (on special approval and NDA only)

	Doc No.
Audio Performance Report for IEC 60645	DN02901

Measurement Graph

Frequency Response	1mW, 250 - 4kHz, IEC 60318-6 Artificial Mastoid
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Measurements are done on 3 sample units, with average shown



Data Table

- Pure Tone RETSPL
- Recommended Max Levels (using Measure Fitting Unit)

Freq [Hz]	RETSPL [dB]	Max Level [HL]
250	67.0	45.0
315	64.0	
400	61.0	
500	58.0	65.0
630	52.5	
750	48.5	70.0
800	47.0	
1000	42.5	75.0
1250	39.0	
1500	36.5	75.0
1600	35.5	
2000	31.0	75.0
2500	29.5	
3000	30.0	75.0
3150	31.0	
4000	35.0	70.0
	Interpolated	

Product Ordering

	Part No.	Plug
BC1 Bone Conductor Mini-DIN	100.060	8-pin Green Mini-DIN