

BC-1/GR7024

Audiometric Bone Conductor – the standard for audiometric diagnostic

Product Information

The BHM BC-1/GR7024 audiometric bone conductor is developed, fabricated and hand assembled by BHM in Austria. It is based on state-of-the-art bone conduction technology and specialist know-how from BHM, the leading company of bone conduction hearing aids. BC-1/GR7024 comes with a 2 meter long integrated fixed cable making the need for any extension cable unnecessary. Ultrasonic welding of the housing parts ensures special robustness and protection against environmental influences such as moisture and sweat. A customized headband complying with the audiometry standard comes with the BC-1/GR7024. In addition, BC-1/GR7024 is compatible with the existing metallic headband for Audiometry.

BHM knows the importance of these devices for customers, and therefore practice its best every day.

Features

- 2 m integrated fixed cable
- 6.35 mm mono jack plug
- Suitable headband
- Meets industrial standards
- Biocompatible material
- ISO and ANSI compliant
- 3 year warranty
- Compatible with the existing metallic headband for Audiometry
- No external metal parts – best protection against electrical discharge

Part

BC-1/GR7024 Audiometric Bone Conductor with Headband

Article number: 77735155

Compliance Standards

- IEC 60645-1:2012 – Electroacoustics – Audiometric equipment
Part 1: Equipment for pure-tone audiometry
- ANSI/ASA S3.6-2010 – American National Standard Specification for Audiometers
- ISO 389-3:2016 – Acoustics – Reference zero for the calibration of audiometric equipment
Part 3: Reference equivalent threshold force levels for pure tones and bone vibrators
- IEC 60318-6:2007 – Electroacoustics – Simulators of human head and ear
Part 6: Mechanical coupler for the measurement of bone vibrators
- ANSI/ASA S3.13-1987 (R2012) – American National Standard
Mechanical coupler for measurement of bone vibrators



symbolic photo

Reliable performance
High-end technology
Outstanding quality

BC-1/GR7024

Technical Data Sheet

Electrical data

- Impedance 10 Ohm @ 1 kHz
- Sensitivity 113 dB re. 1 μ N @ 1 V_{rms} and 1 kHz

Mechanical data

- Weight approx. 18 g (without cable)
- Dimensions Length: 29.3 mm
Width: 18.1 mm
Height: 18.9 mm
- Housing material ABS polymer
- Housing colour Graphite gray (RAL 7024)
- Connection Fixed cable with mono jack plug

Measuring conditions

- Artificial Mastoid Bruel & Kjaer 4930 with static force 5.4 N
- Compensation for the transmission through the Artificial Mastoid via post processing of all measurements
- THD measured at the levels required by the audiometry standard

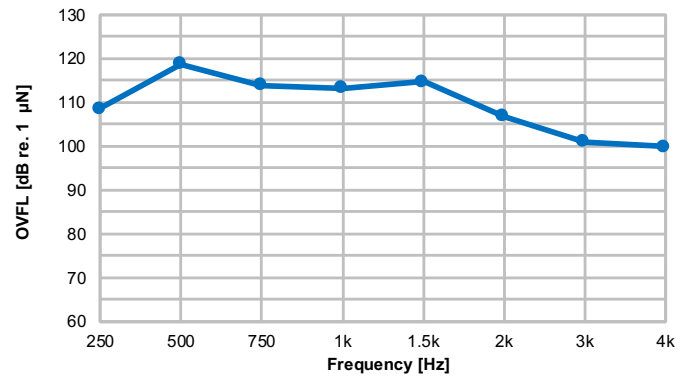
Total Harmonic Distortion

Frequency [Hz]	250	500 - 750	1k	1.5k - 4k
Hearing Level [dB]	20	50	60	60
THD [%] typ.	3.5	<1.1	<1.1	<0.3
THD [%] max.	5.0	2.0	2.0	1.0

Warnings

- This class of equipment is allowed in domestic establishments when used under the jurisdiction of a health care professional.
- BC-1/GR7024 may only be used with certified audiometers.
- BC-1/GR7024 is intended for diagnostic and clinical use by audiologists and other trained health care professionals in testing the hearing of their patients.
- No parts may be eaten, burnt, or in any way used for purposes other than the applications defined above.
- Clean the device between patients, e.g. with a non-alcohol based antibacterial wipe, such as Audiowipes.
- This device is covered by the Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). The device can be disposed of as normal electronic waste, according to local regulations.

Output Vibratory Force Level @ 1 V_{rms}



Audiometric Calibration

Frequency [Hz]	mV	dB re. 1 mV
250	716.6	57.1
500	77.4	37.8
750	48.8	33.8
1k	26.4	28.4
1.5k	10.7	20.6
2k	11.2	21.0
3k	19.9	26.0
4k	80.1	38.1

Required input voltage for BC-1/GR7024 (10 Ohm impedance) to provide force levels 40 dB HL \pm 3.0 dB above threshold (RETVFL) based on ISO and ANSI standards.



According to EU directive 93/42/EEC
Quality management system according
to DIN EN ISO 13485

Changes may be done without any notice
in order to improve product performance.