An integrated group of microphones singly dedicated to unheard of accuracy, beyerdynamic StudioGroup™ mics share a distinctive sonic elegance and transparent natural warmth that immediately sets them apart in any recording situation.

Recently, “home multi-track recording” has transcended modest beginnings to achieve new levels of technical sophistication that place increasingly stringent demands on microphones.

In the professional studio environment, digital recording and mastering challenge microphones to perform with flawless accuracy, totally free of noise, distortion and coloration.

StudioGroup™ microphones encompass a diverse selection of precision condenser, moving coil and ribbon designs to meet and exceed the specific criteria for any type of vocal or instrumental recording.

beyerdynamic StudioGroup™ condensers prove that increased accuracy and higher output can be achieved without the icy, strident sound and self-noise this type of mic is known for.

Extended frequency response coupled with the ability to withstand high SPL make Beyer moving coil mics a versatile and effective choice in the studio.

Beyer ribbon microphones are more than unique: their unmatched transparency, smoothness and fast transient response is the perfect complement to specialized recording techniques like Mid-Side and X-Y stereo miking.

Designed to reproduce the wide array of contemporary acoustic and electronic drum sounds, the beyerdynamic PercussionGroup™ offers unrivaled precision and durability.

Leading, artists, engineers and producers like Phil Collins, Elliott Easton, Diane Schuur, Tom Jung and Jim Boyer choose beyerdynamic StudioGroup™ mics to capture every vocal and instrumental nuance with a warm, balanced sound that is increasingly prevalent on the world’s finest recordings.
Studio Condensors

MC 740

A truly superior studio condenser mic offering unrivaled versatility, the MC 740 features a choice of five switchable directional patterns: omnidirectional, wide cardioid, cardioid, hypercardioid and bi-directional. The MC 740 is virtually transparent-sounding, without any of the self-noise or coloration typical of most condensers. More remarkably, all five of its pickup patterns are equally uniform and identically transparent. The MC 740 is exceptionally sensitive, yet withstands extreme SPLs (up to 144 dB with the 10 dB attenuator in circuit). This mic is designed for use on vocals, piano, wind, brass, acoustic stringed instruments, and overhead or ambience applications.

Technical Specifications

- Condenser
- 48 ± 4V
- 1.4 mA
- 40-20,000 Hz
- Omniodirectional
- Wide cardioid
- Cardioid
- Hypercardioid
- Bi-directional
- 10 mV/Pa Δ -40 dB
- 150 ohms
- ≥ 1000 ohms

Sensitivity:
- Source impedance:
- Load impedance:
- Max. SPL for 0.5%
- THD at 1 kHz:
- with preattenuation:
- Signal-to-noise ratio (referred to 1 PA):
- Equivalent noise level, A weighted:

134 dB
144 dB
approx. 70 dB
approx. 17 dB

Dimensions

- Length:
- Shaft diameter:
- Head diameter:
- Weight:

215 mm
37 mm
36 x 55 mm
approx. 390 g

Models MC 740 N (C)

StudioGroup™
Studio Condensers

MC 734

Designed for vocal and instrumental recording situations, the MC 734 is a high-performance condenser with an unusually flat frequency response and a wide dynamic range. The MC 734 uses sophisticated filtering for highly effective suppression of sibilance and p-pops noises. The mic’s low end frequency response can be effectively tailored using a built-in, switchable three stage filter. Like most Beyer condensers, the MC 734 is extremely rugged for a mic of this type. The MC 734 is designed for accurate reproduction of vocals, percussion, piano and acoustic stringed instruments.

Technical Specifications

- Transducer type: Condenser
- Supply voltage: 48 ± 4V
- Current consumption: approx. 0.5 mA
- Frequency response: 20-20,000 Hz
- Polar pattern: Cardioid
- Sensitivity: 5 mV/Pa ∆ ~ 46 dBV
- Source impedance: 150 ohms
- Load impedance: ± 1000 ohms
- THD at 1 kHz: 138 dB
- Signal-to-noise ratio (referred to 1 PA): 69 dB
- Equivalent noise level, A-weighted: approx. 38 dB

Dimensions

- Length: 175 mm
- Shaft diameter: 25 mm
- Head diameter: 45 mm
- Weight: 270 g

Models

MC 734 N (C)  MC 734 Pa

StudioGroup™
MCM CONDENSER SYSTEM

CV 720/CV 710 Preamplifiers

The MCM condenser system consists of two modular parts: the powering or preamplifier handle and interchangeable mic capsules. This allows greater flexibility for different studio mixing situations. Like other Beyer powering handles, the CV 720 features a built-in, switchable 10 dB attenuator for high SPL situations that is effective throughout the entire frequency range.

A rolloff filter can also be switched into the circuit to eliminate low frequency noise and undesirable proximity effect due to close-miking. The CV 720 is designed for phantom powering between 8-52 Volts. When only 48 Volt phantom powering is used, the CV 710 preamplifier is recommended.

The CK 701 is a high-quality studio condenser element with virtually frequency-independent omnidirectional characteristic. The CK 703 is a premier studio condenser mic head with a cardioid characteristic. Also designed for difficult and demanding studio applications, the CK 708 figure 8 condenser capsule features a bi-directional characteristic. The MCM system is intended for use with a wide array of musical instruments.

CK 701 Capsule

<table>
<thead>
<tr>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td>Transducer type:</td>
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<tr>
<td>Condenser</td>
</tr>
<tr>
<td>40-20,000 Hz</td>
</tr>
<tr>
<td>Omnidirectional</td>
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<tr>
<td>8 mV/Pa A – 42 dB</td>
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<tr>
<td>Source impedance:</td>
</tr>
<tr>
<td>&lt; 200 ohms</td>
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<tr>
<td>&gt; 1000 ohms</td>
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<tr>
<td>Load impedance:</td>
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<tr>
<td>Max. SPL for 0.5%</td>
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<tr>
<td>THD at 1 kHz:</td>
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<tr>
<td>150 dB</td>
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<tr>
<td>Signal-to-noise ratio</td>
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<tr>
<td>(referred to 1 PA):</td>
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<tr>
<td>69 dB</td>
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<tr>
<td>Equivalent noise level,</td>
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<tr>
<td>A-weighted:</td>
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<tr>
<td>18 dB</td>
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CK 703 Capsule

<table>
<thead>
<tr>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td>Transducer type:</td>
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<tr>
<td>Condenser</td>
</tr>
<tr>
<td>40-20,000 Hz</td>
</tr>
<tr>
<td>Cardioid</td>
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<tr>
<td>&gt; 20 dB</td>
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<tr>
<td>10 mV/Pa A – 40 dB</td>
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<tr>
<td>Source impedance:</td>
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<tr>
<td>&lt; 200 ohms</td>
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<td>&gt; 1000 ohms</td>
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<tr>
<td>Load impedance:</td>
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<tr>
<td>Max. SPL for 0.5%</td>
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<tr>
<td>THD at 1 kHz:</td>
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<tr>
<td>150 dB</td>
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<tr>
<td>Signal-to-noise ratio</td>
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<tr>
<td>(referred to 1 PA):</td>
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<tr>
<td>71 dB</td>
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<tr>
<td>Equivalent noise level,</td>
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<tr>
<td>A-weighted:</td>
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<tr>
<td>16 dB</td>
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CK 708 Capsule

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<tr>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td>Transducer type:</td>
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<tr>
<td>Condenser</td>
</tr>
<tr>
<td>40-20,000 Hz</td>
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<tr>
<td>Figure 8</td>
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<tr>
<td>Side attenuation at 90°,</td>
</tr>
<tr>
<td>1 kHz: &gt; 25 dB</td>
</tr>
<tr>
<td>Sensitivity:</td>
</tr>
<tr>
<td>10 mV/Pa A – 40 dB</td>
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<tr>
<td>Source impedance:</td>
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<tr>
<td>&lt; 200 ohms</td>
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<tr>
<td>&gt; 1000 ohms</td>
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<tr>
<td>Load impedance:</td>
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<tr>
<td>Max. SPL for 0.5%</td>
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<tr>
<td>THD at 1 kHz:</td>
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<tr>
<td>150 dB</td>
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<tr>
<td>Signal-to-noise ratio</td>
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<tr>
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<tr>
<td>71 dB</td>
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<tr>
<td>Equivalent noise level,</td>
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<tr>
<td>A-weighted:</td>
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<tr>
<td>16 dB</td>
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Dynamic Moving Coil

**M 88**
Engineered for critical studio applications, the M 88 is a leading choice of recording engineers worldwide. Sensitive and refined, the M 88 boasts a superior moving coil design with an extremely wide frequency response and high output. The microphone’s large diaphragm optimizes its ability to capture low end frequencies down to 30 Hz with incredible results. Its accurate reproduction of mid- to high-end frequencies makes it a highly versatile studio performer. The M 88’s superior low end response and ability to withstand exceptionally high SPL makes it an obvious choice for miking drums, electric guitars, woodwinds, brass and vocals in the studio.

**Technical Specifications**
- **Transducer type:** Dynamic, moving coil, pressure gradient
- **Frequency response:** 30-20,000 Hz
- **Polar pattern:** Hypercardioid
- **Side attenuation at 120°:** > 23 dB
- **Open circuit voltage:** at 1 kHz (0 dB ∆ 1 V/Pa): 2.3 mV/Pa ∆ -53 dBV
- **EIA Gp output:** -145 dBm
  - (0 dB, ∆ 1 mW/2 × 10⁻⁶ Pa)
- **Magnetic field suppression:** > 20 dB at 50 Hz
- **Nominal output impedance:** 200 ohms
- **Load impedance:** ≥ 1000 ohms

**Dimensions**
- **Length:** 175 mm
- **Shaft diameter:** 25.5 mm
- **Head diameter:** 48.5 mm
- **Weight:** approx. 320 g

**Models**
- M 88 N (C)

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**M 69**
The M 69 is a sturdy moving coil mic capable of flawless studio performance, especially when miking floor toms, electric guitars and horns. Its exceptionally true hypercardioid characteristic withstands coloration from all frequencies off axis (maximum rejection at 120°), producing a very smooth and natural sound. The M 69’s wide frequency response and exceptional sensitivity contribute to its characteristically elegant and articulate sonic profile. For special studio miking situations, the mic features a “standard setting” which allows any two random M 69s to be used as a stereo matched pair. The M 69 is ideal for recording floor toms, electric guitars, harmonica and brass instruments.

**Technical Specifications**
- **Transducer type:** Dynamic, moving coil, pressure gradient
- **Frequency response:** 50-16,000 Hz
- **Polar pattern:** Hypercardioid
- **Side attenuation at 120°:** > 20 dB
- **Open circuit voltage:** at 1 kHz (0 dB ∆ 1 V/Pa): 2.3 mV/Pa ∆ -53 dBV
- **EIA Gp output:** -145 dBm
  - (0 dB, ∆ 1 mW/2 × 10⁻⁶ Pa)
- **Nominal output impedance:** 200 ohms
- **Load impedance:** ≥ 1000 ohms

**Dimensions**
- **Length:** 175.5 mm
- **Shaft diameter:** 25.5 mm
- **Head diameter:** 48.5 mm
- **Weight:** approx. 320 g

**Models**
- M 69 N (C)
**Dynamic Moving Coil**

**M 201**
A precise, small diaphragm moving coil mic, the M 201 offers superlative results when miking vocals, acoustic stringed instruments, drums and wind instruments. The mic benefits from an exceptionally wide frequency response and high output capability. Its tight hypercardioid pickup pattern is specifically designed for close-miking situations, providing greater directivity and reducing feedback to minimum levels. The M 201 is especially recommended for recording situations where an extremely high degree of accuracy and compact, "non-intrusive" dimensions are required.

**Technical Specifications**
- Transducer type: Dynamic, moving coil, pressure gradient
- Frequency response: 40-15,000 Hz
- Polar pattern: Hypercardioid
- Side attenuation at 120°: > 20 dB
- Open circuit voltage at 1 kHz (0 dB θ): 1.2 mV/Pa, Δ 58 dBV
- EIA G<sub>em</sub> output: 150 dB<sub>ref</sub>
- Magnetic field sensitivity: > 18 dB at 50 Hz
- Nominal output impedance: 200 ohms
- Load impedance: ≥ 1000 ohms

**Dimensions**
- Length: 160 mm
- Shaft diameter: 24 mm
- Head diameter: 24 mm
- Weight: approx. 220 g

**Models**
- M 201 (NC)

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**Dynamic Ribbon**

**M 260**
A reflection of Beyer's profound commitment to the concept of ribbon microphones, the M 260 typifies the smoothness and accuracy of the ribbon design. It can be used effectively in stereo pairs for a "live" ambient recording situation to reproduce the sound of brass and stringed instruments with startling accuracy. The 260's expansive frequency range and fast transient response provide unsurpassed transparency and warmth ideal for recording piano, brass, vocals, upright bass, flute and drum overheads.

**Technical Specifications**
- Transducer type: Dynamic, ribbon
- Frequency response: 50-18,000 Hz
- Polar pattern: Hypercardioid
- Side attenuation at 120°: > 20 dB
- Open circuit voltage at 1 kHz (0 dB θ): 1.2 mV/Pa, Δ 58 dBV
- EIA G<sub>em</sub> output: 150 dB<sub>ref</sub>
- Magnetic field suppression: > 58 dB at 50 Hz
- Nominal output impedance: 100 ohms
- Load impedance: ≥ 1000 ohms

**Dimensions**
- Length: 169.5 mm
- Shaft diameter: 24/30 mm (conical)
- Head diameter: 51.5 mm
- Weight: approx. 300 g

**Models**
- M 260 (NC)
- M 260 (NC) S
Dynamic Ribbon

M 160

Employing a special Beyer double ribbon design for uncommon precision and crystal-clear sound, the M 160 is particularly suited to the accurate reproduction of stringed instruments and piano. Highly directional, the M 160 has an efficient hypercardioid characteristic and extremely wide frequency response with low feedback. The warm, clarified sound inherent in the ribbon design matches and exceeds the performance of condensers in similar miking applications.

Technical Specifications
- Transducer type: Dynamic, ribbon
- Frequency response: 40-20,000 Hz
- Polar pattern: Hypercardioid
- Side attenuation at 10kHz: > 25 dB
- Open circuit voltage at 1 kHz (0dB): 1.0 mV (Pa) > -60 dBV
- EIA C0 output: 152 dB
- Nominal output impedance: 200 ohms
- Load impedance: ≥ 1000 ohms

Dimensions
- Length: 156 mm
- Shaft diameter: 23 mm
- Head diameter: 38 mm
- Weight: approx. 156 g

Models
- M 160 NC/G

M 130

The M 130's unique double ribbon design features a completely uniform, frequency independent Figure 8 characteristic. The mic's bi-directional pattern allows engineers to derive maximum ambience along with precise reproduction. It produces a clear, transparent sound typical of Beyer ribbon designs. Two M 130s correctly positioned in relationship to each other and the source can be used as part of the Mid-Side miking technique for honest spatial and perceptual stereo imaging. Sound the way it's actually heard with both ears in relation to the source.

Technical Specifications
- Transducer type: Dynamic, ribbon
- Frequency response: 40-20,000 Hz
- Polar pattern: Figure 8
- Side attenuation at 10kHz: > 30 dB
- Open circuit voltage at 1 kHz (0dB): 1.0 mV (Pa) > -60 dBV
- EIA C0 output: 152 dB
- Nominal output impedance: 200 ohms
- Load impedance: ≥ 1000 ohms

Dimensions
- Length: 128 mm
- Shaft diameter: 23 mm
- Head diameter: 38.5 mm
- Weight: approx. 150 g

Models
- M 130 NC/G

StudioGroup™
With the advent of electronic percussion, sampled acoustic sounds, triggering and special effects treatments, the drumset is rapidly evolving into a more expressive and wide-ranging instrument. Beyer PercussionGroup™ mics are specifically performance-matched to every acoustic element of the drumset. Demanding drummers and sound engineers are using these specially designed and selected mics because of their totally accurate drumset reproduction for a wide array of recording and sampling applications.

**Floor Toms:** M 201
The M 201 features a very wide frequency response and excellent transient response to reproduce the full range of tom sounds. Its tight hypercardioid pickup pattern is designed to provide greater directivity and reducing noise or leakage from other drums to minimum levels. The M 201's high degree of accuracy and compact, "non-intrusive" dimensions make it an ideal choice for mixing floor toms.

Alternative recommendations: M 88, M 69

**Rack Toms:** M 420
The versatile and precise M 420 is especially recommended for small diameter toms, snare drums, and Latin percussion instruments. Its tight polar pattern isolates individual drums effectively, while its low end frequency response rejects unwanted bass frequencies.

Alternative recommendations: M 69, M 201

**Snare Drum:** M 422
The M 422 has a small diaphragm that precisely reproduces snare drum characteristics and attack while effectively suppressing unwanted frequencies, resonances and unwanted sound. The Beyer M 420 may also be used for deeper snare drums.

Alternative recommendations: M 420, M 201

**Overhead Mic:** MC 713
The MC 713 studio condenser has the exceptional accuracy to reproduce the full spectrum of cymbal and drum tonalities with smooth, crisp detail.

Alternative recommendations: M 201, M 260

**Bass Drum:** M 380
The unique design of the M 380 featuring a figure 8, bi-directional pattern allows unlimited versatility in attaining the widest range of bass drum sounds. The M 380 is considered by many as the only mic capable of delivering the full low end sound spectrum and energy of the kick drum.

Alternative recommendations: M 201, M 69
Incorporating Beyer's unique bass reflex system, the DT 770 Professional closed-design stereo headphones combine an articulate low end response with a lightweight moving coil and diaphragm for maximum user comfort. The DT 770’s wide frequency response is equalized to the diffuse sound field to produce a natural, balanced sound and excellent transient response.

**Technical Specifications**
- **Transducer principle:** Dynamic, closed
- **Frequency response:** 2-35,000 Hz
- **Nominal impedance:** 600 ohms/system
- **Nominal sound pressure level at 1 kHz (DIN 45552):** ≥ 96 dB
- **THD acc. to DIN 45550:** ≤ 0.2%
- **Power handling capacity acc. to DIN 45552:** 100 mW Δ 106 dB SPL = 7.75 V at 600 ohms approx. 16 dBA
- **External noise isolation:** 2 N
- **Weight without cable:** 250 g

Employing a lightweight closed headphone design, the DT 220s feature an extremely wide frequency response of 20 to 20,000 Hz. The DT 220s combine the suppression of unwanted cavity resonances near the ear with a specially developed wide band driver element to provide superior transient response and clear, transparent sound for the most discriminating ears.

**Technical Specifications**
- **Transducer principle:** Dynamic, closed
- **Frequency response:** 20-20,000 Hz
- **Nominal impedance:** 400 ohms/system
- **Nominal sound pressure level at 1 kHz (DIN 45552):** ≥ 102 dB
- **THD acc. to DIN 45550:** ≤ 0.5%
- **Power handling capacity acc. to DIN 45552:** 100 mW Δ 122 dB = 6.4 V at 400 ohms approx. 16 dBA
- **External noise isolation:** 3 N
- **Weight without cable:** 260 g

Considered as the standard monitoring headphones by leading producers and engineers worldwide, the DT 100s feature an expansive frequency response and spacious sound perspective. Highly accurate for critical studio monitoring situations, the DT 100s have a bass response that is powerful without being overemphasized. They are also extremely reliable and comfortable.

**Technical Specifications**
- **Transducer principle:** Dynamic, closed
- **Frequency response:** 30-20,000 Hz
- **Nominal impedance:** 400 ohms/system*
- **Nominal sound pressure level at 1 kHz (DIN 45552):** ≥ 94 dB
- **THD acc. to DIN 45550:** ≤ 1%
- **Power handling capacity acc. to DIN 45552:** 1000 mW Δ 124 dB SPL = 20 V at 400 ohms approx. 20 dBA
- **External noise isolation:** 4.5 N
- **Average pressure on ears:** approx. 20 dBA
- **Weight without cable:** 350 g

*Special versions available with 8-50, 100, 200-800-2000 ohm systems.

**Plug-in connecting cable**
- Either straight cord (identification letter K) or coiled cord (identification letters WK):
  - K or WK 100.00 with blank ends
  - K or WK 100.05 with 2-pin jack 6.35 mm diameter (mono)
  - K or WK 100.07 with stereo jack 6.35 mm diameter