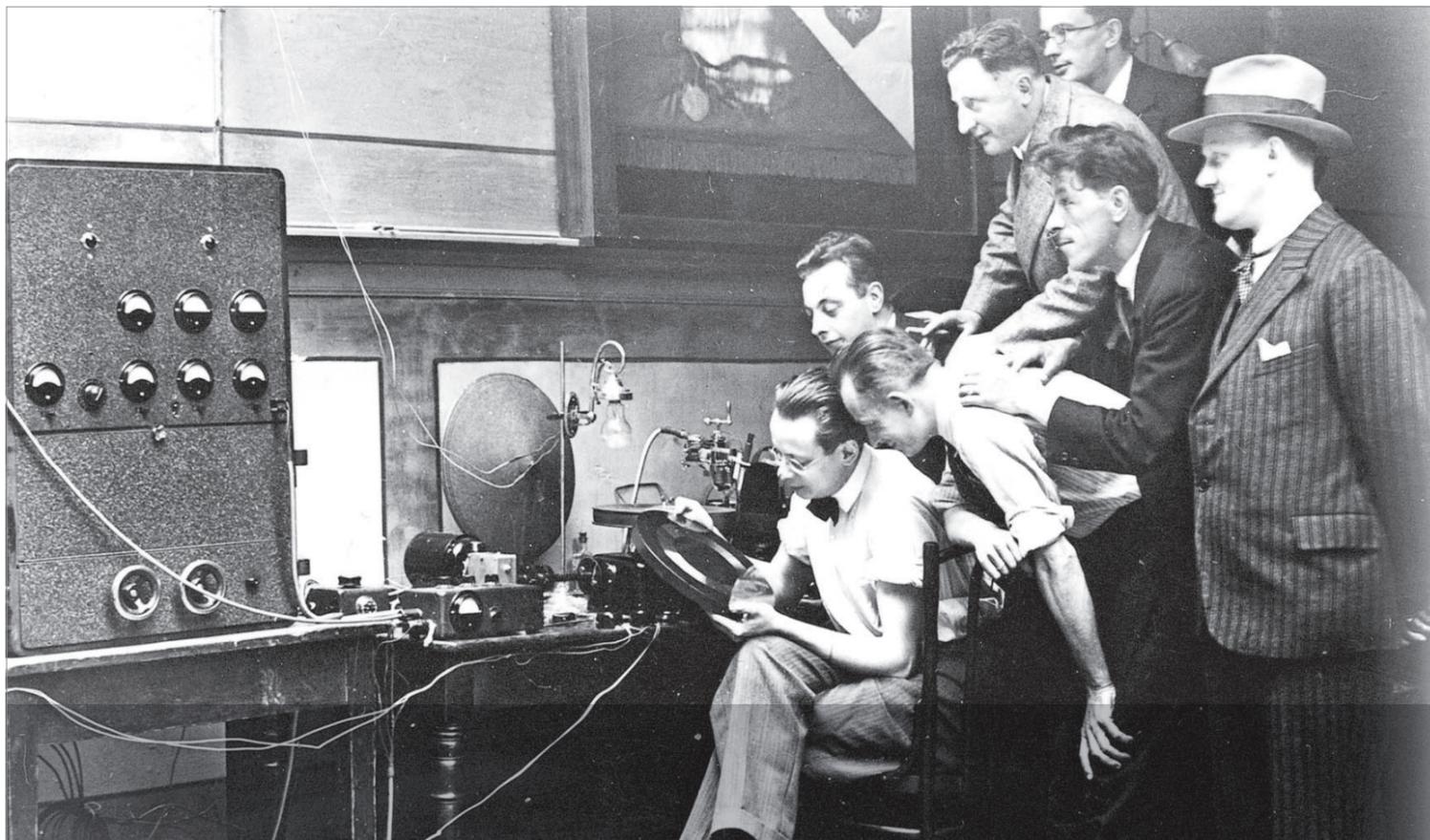




PROFESSIONAL
HEADPHONES AND HEADSETS



DT 1350 | HEADPHONES

PRECISION AND PASSION

since 1924

The development of dynamic headphones and microphones are milestones in beyerdynamic's history. Founded in Berlin in 1924, today the company, which is headquartered in Heilbronn, is one of the leading suppliers for headphones, microphones, headsets and conference systems. beyerdynamic develops and produces innovative solutions in Germany for an ever-growing clientele with high quality requirements.



DT 1350

Closed supraaural headphone for control and monitoring applications, musicians and DJ's.

- Supraaural, lightweight and robust design
- Tesla Technology with highest efficiency
- Excellent ambient noise attenuation
- Flexible split headband
- 90° swivelling earcups
- Single-sided cable
- Soft-Skin earpads and headband for good wearer comfort
- Carry bag included

Headphone

| | |
|---------------------------|---|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Sound coupling to ear | Supraaural |
| Frequency response | 5 - 30,000 Hz |
| Nominal impedance | 80 Ω |
| Max. SPL | 129 dB |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 23 dBA |
| Nominal headband pressure | approx. 5.5 N |
| Weight (without cable) | 174 g |
| Cable | 1.5 m (4.92 ft) / straight cable |
| Connector | Gold plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

Version

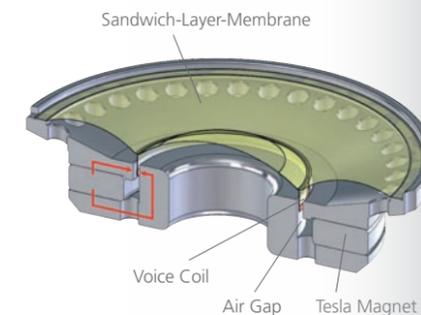
| | | |
|---------|--|------------------|
| DT 1350 | 80 Ω, 1.5 m (4.92 ft) / straight cable | Art.-No. 702.072 |
|---------|--|------------------|

Accessories

| | | |
|-------------|-----------------------------------|------------------|
| EDT 1350 VB | Ear cushions pair, velours, black | Art.-No. 906.794 |
|-------------|-----------------------------------|------------------|

TESLA TECHNOLOGY

The completely re-engineered Tesla sound transducers help achieve almost lossless magnetic flux. This is made possible by the brand new system geometry, which allows the transfer of magnetic force to the voice coil to be as efficient as possible. Traditional dynamic systems use a neodymium magnet at the centre of the system, the size of which was inevitably limited inside the voice coil. The Tesla principle sees the magnet mounted as a ring around the coil, allowing more energy to be directed to the membrane, which is exactly where it is required.



The exceptionally pure sound produced by the Tesla systems is the result of the close attention to countless small details. Especially noteworthy is the ring-shaped magnet which allows a drill-hole directly behind the centre of the membrane in order to minimise disruptive resonances. The use of a special, multilayer membrane effectively suppresses unwanted partial vibrations and resultant distortion.

Another special feature of the Tesla systems is their full-metal design. This prevents any uncontrolled resonances in any part of the casing, which might in turn distort the sound. The metal also protects the device against electrical interference.



DT 700 SERIES | HEADPHONES

DT 700 SERIES | HEADPHONES

DT 770 PRO



Closed reference headphone for control and monitoring applications.

- Diffuse-field closed studio headphone
- „Bass reflex“ technology for improved bass response
- Comfortable fit due to rugged, adjustable, soft padded headband construction
- Robust, easy serviceable construction as all parts are replaceable
- Single-sided cable
- Velours, circumaural ear pads

| | |
|---------------------------|---|
| Headphone | |
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 5 - 35,000 Hz |
| Nominal impedance | 80 Ω / 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 18 dBA |
| Average pressure on ears | 3.5 N |
| Weight without cable | 270 g |
| Length and type of cable | 3.0 m (9.84 ft) / straight cable (80 Ω Version) 3.0 m (9.84 ft) / coiled cable (250 Ω Version) |

| | |
|-----------------|--|
| Versions | |
| DT 770 PRO | 80 Ω, 3.0 m (9.84 ft) / straight cable Art.-No. 459.046 |
| DT 770 PRO | 250 Ω, 3.0 m (9.84 ft) / coiled cable Art.-No. 474.746 |

| | |
|--------------------|---|
| Accessories | |
| DT-Bag | Carry bag, nylon, black Art.-No. 590.959 |
| EDT 770 S | Ear cushions pair, softskin Art.-No. 904.783 |
| EDT 770 VB | Ear cushions pair, velours, black Art.-No. 906.166 |

DT 770 M



Closed headphone for drummers and monitoring purposes (FOH), with extreme isolation against ambient noise.

- Excellent ambient noise attenuation (35 dBA)
- Superb sound quality with high sound pressure level (105 dB)
- Extended frequency range
- Single-sided cable with volume control
- Robust, easy serviceable construction as all parts are replaceable
- Excellent comfort for long-term wearing, softskin ear pads
- Secure and comfortable fit due to rugged, adjustable headband construction with soft padding
- Supplied in a carrying case (nylon)

| | |
|---------------------------|--|
| Headphone | |
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 5 - 30,000 Hz |
| Nominal impedance | 80 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 35 dBA |
| Average pressure on ears | 6.5 N |
| Weight without cable | 300 g |
| Length and type of cable | 3.0 m (9.84 ft) / straight cable with volume control |
| Connection | Gold plated stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

| | |
|----------------|---|
| Version | |
| DT 770 M | 80 Ω, 3.0 m (9.84 ft) / straight cable, with volume control, incl. DT-Bag Art.-No. 472.786 |

| | |
|--------------------|---|
| Accessories | |
| EDT 770 VB | Ear cushions pair, velours, black Art.-No. 906.166 |

DT 880 PRO



Semi-open reference headphone for monitoring applications.

- Diffuse-field semi-open studio headphone
- Analytical sound
- Comfortable fit due to rugged, adjustable, soft padded headband construction
- Robust, easy serviceable construction as all parts are replaceable
- Single-sided cable
- Velours, circumaural ear pads
- Supplied in a carrying case (nylon)

| | |
|--------------------------|--|
| Headphone | |
| Transducer type | Dynamic |
| Operating principle | Semi-open |
| Frequency response | 5 - 35,000 Hz |
| Nominal impedance | 250 Ω |
| Power handling capacity | 100 mW |
| Average pressure on ears | 3.5 N |
| Weight without cable | 295 g |
| Length and type of cable | 3.0 m (9.84 ft) / coiled cable |
| Connection | Gold plated stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

| | |
|----------------|---|
| Version | |
| DT 880 PRO | 250 Ω, 3.0 m (9.84 ft) / coiled cable, incl. DT-Bag Art.-No. 490.970 |

| | |
|--------------------|---|
| Accessories | |
| EDT 990 S | Ear cushions pair, softskin Art.-No. 904.791 |

DT 990 PRO



Professional acoustically open headphone for monitoring and studio applications.

- Diffuse-field open studio headphone
- Professional version of the many times awarded "DT 990"
- Extremely lightweight diaphragm for superb impulse performance
- Excellent sound reproduction
- Comfortable fit due to rugged, adjustable, soft padded headband construction
- Robust, easy serviceable construction as all parts are replaceable
- Single-sided cable
- Velours, circumaural ear pads

| | |
|--------------------------|--|
| Headphone | |
| Transducer type | Dynamic |
| Operating principle | Open |
| Frequency response | 5 - 35,000 Hz |
| Nominal impedance | 250 Ω |
| Power handling capacity | 100 mW |
| Average pressure on ears | 3.5 N |
| Weight without cable | 250 g |
| Length and type of cable | 3.0 m (9.84 ft) / coiled cable |
| Connection | Gold plated stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

| | |
|----------------|---|
| Version | |
| DT 990 PRO | 250 Ω, 3.0 m (9.84 ft) / coiled cable Art.-No. 459.038 |

| | |
|--------------------|---|
| Accessories | |
| DT-Bag | Carry bag, nylon, black Art.-No. 590.959 |
| EDT 990 S | Ear pads, Soft-Skin Art.-No. 904.791 |



DT 700 SERIES | HEADSETS



DT 200 SERIES | HEADPHONES / HEADSETS

DT 790



Closed headset with dynamic microphone for intercom use in loud environments.

- Excellent ambient noise attenuation
- High-quality dynamic hyper-cardioid microphone with very high gain-before-feedback
- Pivotal, flexible gooseneck for optimal positioning
- Robust, easy serviceable construction as all parts are replaceable
- Single-sided cable
- Comfortable fit due to rugged, adjustable, soft padded headband construction
- Softskin, circumaural ear pads

Headphone

| | |
|---------------------------|----------------------------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 5 - 30,000 Hz |
| Nominal impedance | 80 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 35 dBA |
| Average pressure on ears | 5.5 N |
| Weight without cable | 470 g |
| Length and type of cable | 3.0 m (9.84 ft) / straight cable |

Microphone

| | |
|--------------------|----------------|
| Transducer type | Dynamic |
| Frequency response | 40 - 12,000 Hz |
| Polar pattern | Hypercardioid |
| Nominal impedance | 200 Ω |

Versions

| | | |
|-----------|--|------------------|
| DT 790.00 | 80 Ω, 1.5 m (4.92 ft), cable with free ends | Art.-No. 488.747 |
| DT 790.28 | 80 Ω, 1.5 m (4.92 ft) cable, 4-pol. XLR female | Art.-No. 488.755 |

Accessories

| | | |
|------------|-----------------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 770 VB | Ear cushions pair, velours, black | Art.-No. 906.166 |

DT 797 PV



Headset with condenser microphone for use in loud environments.

- Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
- Excellent ambient noise attenuation
- High-quality condenser cardioid microphone for improved bass response and with high gain-before-feedback
- Very high speech reproduction quality and excellent intelligibility
- Pivotal, flexible gooseneck for optimal positioning with elastical microphone suspension
- Robust, easy serviceable construction as all parts are replaceable
- Single-sided cable

Headphone

| | |
|---------------------------|----------------------------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 5 - 35,000 Hz |
| Nominal impedance | 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 20 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 395 g |
| Length and type of cable | 3.0 m (9.84 ft) / straight cable |
| Connection | 1/4" (6.35 mm) stereo jack |

Microphone

| | |
|--------------------|---------------------------|
| Transducer type | Condenser (back-electret) |
| Frequency response | 40 - 20,000 Hz |
| Polar pattern | Cardioid |
| Nominal impedance | approx. 300 Ω |
| Max. SPL | 136 dB |
| Phantom supply | 12 - 48 V |
| Connection | 3-pin. XLR male |

Version

| | | |
|-----------|--|------------------|
| DT 797 PV | 250 Ω, 1.5 m (4.92 ft) cable, 3-pin. XLR male and 1/4" adapter (6.35 mm) stereo jack | Art.-No. 497.894 |
|-----------|--|------------------|

Accessories

| | | |
|------------|-----------------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 770 VB | Ear cushions pair, velours, black | Art.-No. 906.166 |

DT 250 | DT 252



Lightweight, low profile, closed headphone for broadcast, recording studios and intercom applications.

- Closed headphone
- Good ambient noise attenuation
- Lightweight, low profile design
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Balanced sound impression
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband
- Service-friendly construction due to exchangeability of all parts

Headphone

| | |
|---------------------------|---|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 10 - 30,000 Hz |
| Nominal impedance | 80 Ω / 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 16 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 240 g (DT 250) 170 g (DT 252) |
| Length and type of cable | 3.0 m (9.84 ft) / coiled cable |
| Connection | Gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

Versions

| | | |
|--------|---|------------------|
| DT 250 | Studio headphone, 80 Ω system, 3.0 m (9.84 ft) / coiled cable with gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) | Art.-No. 442.844 |
| DT 250 | Same as above, but 250 Ω system | Art.-No. 443.530 |
| DT 252 | Same as above, but single-sided version, 80 Ω system | Art.-No. 445.177 |

Accessories

| | | |
|-----------|-----------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 250 S | Ear cushions pair, softskin | Art.-No. 943.549 |

DT 291 PV



Headset with condenser microphone (omnidirectional) for commentators and studio applications (film scoring).

- Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
- Very high speech reproduction quality and excellent intelligibility
- Flexible, pivotal gooseneck for optimal positioning
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Optimised frequency response according to IRT (Institute for Radio-technology in Munich) regulations
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband

Headphone

| | |
|---------------------------|----------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 10 - 30,000 Hz |
| Nominal impedance | 80 Ω / 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 16 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 240 g |

Microphone

| | |
|--------------------|---------------------------|
| Transducer type | Condenser (back-electret) |
| Frequency response | 20 - 18,000 Hz |
| Polar pattern | Omnidirectional |
| Nominal impedance | 200 Ω |
| Max. SPL | 127 dB |
| Phantomspesung | 12 - 48 V |

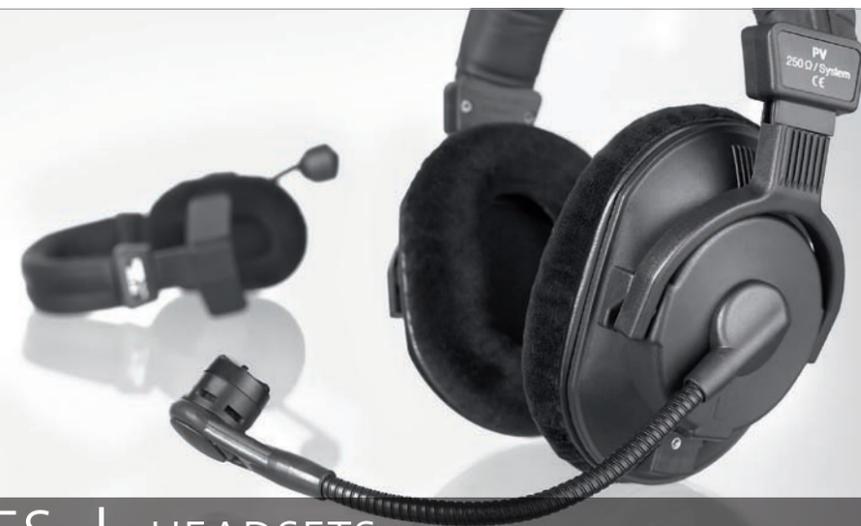
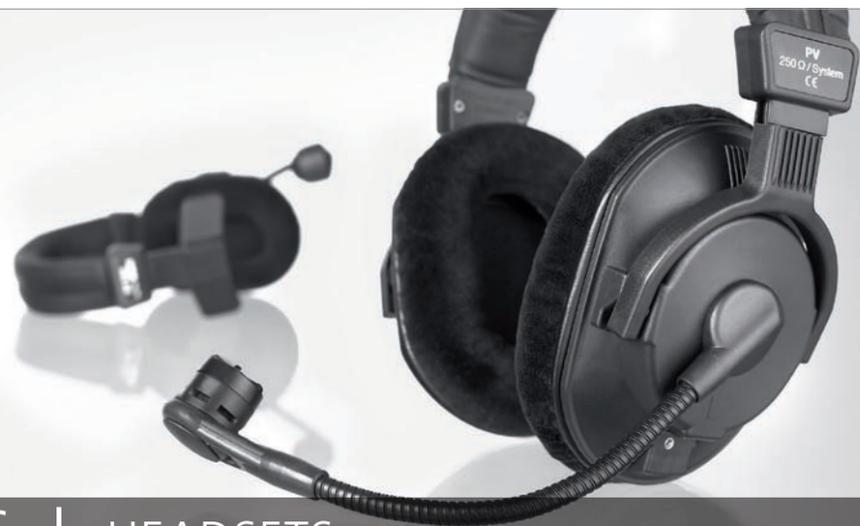
Versions

| | | |
|-----------------|--|------------------|
| DT 291 PV MK II | Headset, 80 Ω, omnidirectional condenser microphone, with integrated preamp for phantom powering | Art.-No. 701.440 |
| DT 291 PV MK II | Same as above, but 250 Ω | Art.-No. 701.459 |

Accessories

| | | |
|-----------|-----------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 250 S | Ear cushions pair, softskin | Art.-No. 943.549 |

DT 291 PV is supplied without connecting cable. Please refer to page 19.



DT 200 SERIES | HEADSETS

DT 200 SERIES | HEADSETS

DT 280 | DT 290

Light headset with dynamic microphone for on-air commentary, sportscasters, intercom and talkback systems.



- Good ambient noise attenuation
- High-quality dynamic hypercardioid microphone with very high gain-before-feedback
- Flexible, pivotable gooseneck for optimal positioning
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Balanced sound impression
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband

Headphone

| | |
|---------------------------|----------------------------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 10 - 30,000 Hz |
| Nominal impedance | 80 Ω / 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 16 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 170 g (DT 280) 240 g (DT 290) |

Microphone

| | |
|--------------------|----------------|
| Transducer type | Dynamic |
| Frequency response | 40 - 12,000 Hz |
| Polar pattern | Hypercardioid |
| Nominal impedance | 200 Ω |

Versions

| | | |
|-------------------|--|------------------|
| DT 280 MK II | Single-sided version, 200/80 Ω | Art.-No. 701.599 |
| DT 280 MK II | Same as above, but 200/250 Ω | Art.-No. 701.602 |
| DT 280 V.11 MK II | Single-sided version, 200/80 Ω, with pre-amplifier | Art.-No. 700.509 |
| DT 290 MK II | Headset, 200/80 Ω | Art.-No. 701.610 |
| DT 290 MK II | Same as above, but 200/250 Ω | Art.-No. 701.629 |
| DT 290 V.11 MK II | Headset, 200/80 Ω, with pre-amplifier | Art.-No. 700.525 |

Accessories

| | | |
|-----------|-----------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 250 S | Ear cushions pair, softskin | Art.-No. 943.549 |

All DT 280 / DT 290 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 19.

DT 287 | DT 297

Headset with condenser microphone for on-air news and sports commentators.



- Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
- Good ambient noise attenuation
- High-quality condenser cardioid microphone for improved bass response and high gain-before-feedback
- Very high speech reproduction quality and excellent intelligibility
- Flexible, pivotable gooseneck for optimal positioning with elastical microphone suspension
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Optimised frequency response according to IRT (Institute for Radiotechnology in Munich) regulations
- Balanced sound impression
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband

Headphone

| | |
|---------------------------|----------------------------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 10 - 30,000 Hz |
| Nominal impedance | 80 Ω / 250 Ω |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | approx. 16 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 170 g (DT 287) 240 g (DT 297) |

Microphone

| | |
|--------------------|---------------------------|
| Transducer type | Condenser (back-electret) |
| Frequency response | 40 - 20,000 Hz |
| Polar pattern | Cardioid |
| Nominal impedance | approx. 300 Ω |
| Max. SPL | 132 dB |
| Phantom supply | 12 - 48 V |

Versions

| | | |
|-------------------|--|------------------|
| DT 287 PV MK II | Single-sided version, 80 Ω, cardioid condenser microphone, with integrated power supply for phantom powering | Art.-No. 701.432 |
| DT 287 V.11 MK II | Single-sided version, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp | Art.-No. 700.517 |
| DT 297 PV MK II | Headset, 80 Ω, cardioid condenser microphone, with integrated power supply for phantom powering | Art.-No. 701.467 |
| DT 297 PV MK II | Same as above, but 250 Ω | Art.-No. 721.042 |
| DT 297 V.11 MK II | Headset, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp | Art.-No. 700.533 |

Accessories

| | | |
|-----------|-----------------------------|------------------|
| DT-Bag | Carry bag, nylon, black | Art.-No. 590.959 |
| EDT 250 S | Ear cushions pair, softskin | Art.-No. 943.549 |

All DT 287 / DT 297 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 19.



DT 230 SERIES | HEADPHONES / HEADSETS



DT 150 SERIES | HEADPHONES / HEADSETS

DT 231 PRO

Closed lightweight headphone for studio and stage applications.

- Closed headphone
- Lightweight, low profile design
- Supraaural ear pads
- Good sound impression
- Powerful low frequency response
- Single-sided, straight cable



Headphone

Transducer type Dynamic
 Operating principle Closed
 Sound coupling to ear Supraaural
 Frequency response 20 - 18,000 Hz
 Nominal impedance 32 Ω
 Average pressure on ears 2 N
 Weight without cable 130 g
 Length and type of cable 2.5 m (8.2 ft) / straight cable
 Connection Mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)

Version

DT 231 PRO 32 Ω, 2,5 m (8.2 ft) / straight cable

Art.-No. 458.562

DT 234 PRO

Lightweight headset for multimedia applications (e.g. video conferencing, voice ip etc.) and broadcast applications.

- Closed headphone
- Lightweight, low profile design
- Supraaural ear pads
- Noise-cancelling condenser cardioid microphone with high speech reproduction quality
- Single-sided, straight cable
- Connection through two 3,5 mm stereo jacks, compatible with most PC Soundcards



Headphone

Transducer type Dynamic
 Operating principle Closed
 Sound coupling to ear Supraaural
 Frequency response 20 - 18,000 Hz
 Nominal impedance 32 Ω
 Average pressure on ears 2 N
 Weight without cable 155 g
 Length and type of cable 2.5 m (8.2 ft) / straight cable
 Connection Mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)

Microphone

Transducer type Condenser (back electret)
 Frequency response 50 - 18,000 Hz
 Polar pattern Cardioid
 Nominal impedance approx. 1.5 kΩ
 Connection Mini stereo jack plug (3.5 mm)

Version

DT 234 PRO 32 Ω, 2,5 m (8.2 ft) / straight cable

Art.-No. 459.364

DT 150

Closed monitoring headphone for use in loud environments and broadcast, film and recording studios.

- Closed headphone
- Excellent ambient noise attenuation
- Powerful neodymium headphone system for excellent reproduction accuracy
- Wide frequency response (5 - 30,000 Hz)
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing



Headphone

Transducer type Dynamic
 Operating principle Closed
 Frequency response 5 - 30,000 Hz
 Nominal impedance 250 Ω
 Power handling capacity 100 mW
 Ambient noise attenuation approx. 20 dBA
 Average pressure on ears 4.5 N
 Weight without cable 250 g
 Length and type of cable 3.0 m (9.84 ft) / straight cable
 Connection Gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)

Version

DT 150 250 Ω, 3,0 m (9.84 ft) / straight cable, black

Art.-No. 455.970

DT 190

Professional headset with balanced microphone for on-air commentary requiring broadcast quality.

- Powerful neodymium headphone system for excellent reproduction accuracy
- Excellent ambient noise attenuation
- High quality, dynamic noise cancelling symmetrical hypercardioid microphone with wide frequency response
- Excellent intelligibility
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Closed headphone
- Softskin, circumaural ear pads
- Excellent comfort for long-term wearing



Headphone

Transducer type Dynamic
 Operating principle Closed
 Frequency response 5 - 30,000 Hz
 Nominal impedance 250 Ω
 Power handling capacity 100 mW
 Ambient noise attenuation approx. 20 dBA
 Average pressure on ears 4.5 N
 Weight without cable 350 g

Microphone

Transducer type Dynamic
 Frequency response 40 - 12,000 Hz
 Polar pattern Hypercardioid
 Nominal impedance 200 Ω

Version

DT 190 Headset, 200/250 Ω, black

Art.-No. 423.386

DT 190 is supplied without connecting cable. Please refer to page 19.



DT 100 SERIES | HEADPHONES

DT 100 | DT 102

The worldwide standard closed headphone for intercom, monitoring, ENG/EFP and live-applications.

- Closed headphone
- Legendary, classic design
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing



Headphone

| | |
|---------------------------|---|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 30 - 20,000 Hz |
| Nominal impedance | 16 Ω / 400 Ω ± 10% |
| Power handling capacity | 1000 mW |
| Ambient noise attenuation | 20 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 350 g (DT 100) 250 g (DT 102) |
| Length and type of cable | 3.0 m (9.84 ft) straight cable |
| Connection | Gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

Versions

| | | |
|--------|---|------------------|
| DT 100 | 400 Ω, grey, 3.0 m (9.84 ft) / straight cable | Art.-No. 421.022 |
| DT 100 | Same as above, but 16 Ω | Art.-No. 474.169 |
| DT 100 | 400 Ω, black, 3.0 m (9.84 ft) / straight cable | Art.-No. 421.464 |
| DT 100 | Same as above, but 16 Ω | Art.-No. 474.177 |
| DT 102 | Single-sided version, 400 Ω, grey, 3.0 m (9.84 ft) / straight cable | Art.-No. 421.561 |
| DT 102 | Same as above, but 16 Ω | Art.-No. 474.185 |

Accessories

| | | |
|-----------|---|------------------|
| EDT 100 P | Ear cushions pair, plush, black, suitable for the tropics | Art.-No. 945.576 |
| EDT 100 T | Ear cushions pair, cotton jersey, black, suitable for the tropics | Art.-No. 945.584 |



DT 100 SERIES | HEADSETS

DT 108 | DT 109

The worldwide headset standard for live, remote broadcasting, studio, film, TV and language lab applications.

- Closed headphone
- Highly sensitive headphone and microphone transducers
- Legendary, classic design
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing



Headphone

| | |
|---------------------------|----------------------------------|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 30 - 20,000 Hz |
| Nominal impedance | 50 Ω / 400 Ω ± 10% |
| Power handling capacity | 1000 mW |
| Ambient noise attenuation | approx. 20 dBA |
| Average pressure on ears | approx. 4.5 N |
| Weight without cable | 283 g (DT 108) 390 g (DT 109) |

Microphone

| | |
|--------------------|----------------|
| Transducer type | Dynamic |
| Frequency response | 40 - 12,000 Hz |
| Polar pattern | Hypercardioid |
| Nominal impedance | 200 Ω |

Versions

| | | |
|--------|-------------------------------------|------------------|
| DT 108 | Single-ear-headset, 200/50 Ω, grey | Art.-No. 131.342 |
| DT 108 | Same as above, but black | Art.-No. 402.958 |
| DT 108 | Single-ear-headset, 200/400 Ω, grey | Art.-No. 101.702 |
| DT 108 | Same as above, but black | Art.-No. 402.966 |
| DT 109 | Headset, 200/50 Ω, grey | Art.-No. 101.877 |
| DT 109 | Same as above, but black | Art.-No. 402.974 |
| DT 109 | Headset, 200/400 Ω, grey | Art.-No. 101.885 |
| DT 109 | Same as above, but black | Art.-No. 402.982 |

Accessories

| | | |
|-----------|---|------------------|
| EDT 100 P | Ear cushions pair, plush, black, suitable for the tropics | Art.-No. 945.576 |
| EDT 100 T | Ear cushions pair, cotton jersey, black, suitable for the tropics | Art.-No. 945.584 |

All DT 108 / DT 109 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 18.



DT 48 SERIES | HEADPHONES

DT 48 | DT 48 A 00

Dynamic, closed audiometric headphone.



- Audiometric version according to DIN 45 620
- For aural-acoustical analysis and measurements for ENT doctors, universities and research centres
- High-quality transducer elements, selected in pairs
- Maximum frequency deviation of ± 1 dB
- Colour coded left / right designation
- Effective suppression of ambient noise
- Supraaural rubber ear caps
- Straight cable with free ends fixed to the headphone

| Headphone | |
|---------------------------|---|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 16 - 20,000 Hz |
| Nominal impedance | 5 Ω ± 10% per cartridge |
| Power handling capacity | 200 mW |
| Ambient noise attenuation | 12 dBA |
| Average pressure on ears | 5 N |
| Weight without cable | 400 g |
| Length and type of cable | 3.0 m (9.84 ft) / straight cable with free ends |

| Version | |
|------------|--|
| DT 48 A.00 | 5 Ω, 3.0 m (9.84 ft) / straight cable with free ends Art.-No.101.060 |

DT 48 E

Closed monitoring headphone for ENG/EFP applications.



- Dynamic monitoring headphone for all sound recordings
- Meets the standards set by Nagra recorders, DAT and MD portable recorders
- High degree of efficiency
- Flat accurate frequency response
- Good ambient noise attenuation
- Rugged construction
- Nickel-plated spring steel, adjustable headband
- Excellent comfort for long-term wearing
- Single-sided cable

| Headphone | |
|---------------------------|---|
| Transducer type | Dynamic |
| Operating principle | Closed |
| Frequency response | 16 - 20,000 Hz |
| Nominal impedance | 25 Ω / 200 Ω per cartridge |
| Power handling capacity | 100 mW |
| Ambient noise attenuation | 12 dBA |
| Average pressure on ears | 5 N |
| Weight without cable | 400 g |
| Length and type of cable | 2.5 m (8.2 ft) / coiled cable |
| Connection | Gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm) |

| Versions | |
|----------|---|
| DT 48 E | 25 Ω, 2.5 m (8.2 ft) / coiled cable Art.-No. 404.306 |
| DT 48 E | 200 Ω, 2.5 m (8.2 ft) / coiled cable Art.-No. 433.454 |

INTEGRATED LIMITER



Professional headphones and headsets with integrated limiter. Protect your hearing!

beyerdynamic professional series headphones and headsets can now be ordered with a high quality integrated level limiter. This new option, available throughout the range guarantees that an operator's hearing is protected when the headphone is used over a prolonged period.

Designed to meet health and safety criteria, our passive circuitry which achieves an audio response similar to that of a complex, expensive VCA limiter. Our clever two-phase limiting concept incorporates firstly a smooth decrease of the audio signal by 6 dB then secondly a hard, protective, brickwall limit of the audio signal. This two step process ensures that sound quality is maintained throughout any peak in signal. The limiter threshold can be defined freely by the customer when ordering.

Besides the professional headsets from the DT 290 and DT 790 series, headphones from the DT 770 PRO series and DT 250 series can be ordered with an integrated level limiter.

| Versions | |
|---------------------|--|
| DT 250 LTD | Studio headphone, 80 Ω, with limiter and cable Art.-No. 497.924 |
| DT 250 LTD | Studio headphone, 250 Ω, with limiter and cable Art.-No. 497.142 |
| DT 252 LTD | Studio headphone (single-sided version), 80 Ω, with limiter and cable Art.-No. 497.266 |
| DT 280 MK II LTD | Single-sided headset, 80 Ω, dyn. microphone, with limiter, without cable Art.-No. 497.983 |
| DT 280 MKII LTD | Same as above, but 250 Ω Art.-No. 497.975 |
| DT 290 MK II LTD | Headset, 80 Ω, dyn. microphone, with limiter, without cable Art.-No. 498.033 |
| DT290 MKII LTD | Same as above, but 250 Ω Art.-No. 497.851 |
| DT 291 PV/MK II LTD | Headset, 80 Ω, condenser microphone (omnidirectional), with limiter, without cable Art.-No. 488.615 |
| DT 291 PV/MK II LTD | Same as above, but 250 Ω Art.-No. 498.017 |
| DT 287 PV/MK II LTD | Single-sided version, 80 Ω, cardioid condenser microphone, with limiter, without cable Art.-No. 498.076 |
| DT 287 PV/MK II LTD | Single-sided version, 250 Ω, cardioid condenser microphone, with limiter, without cable Art.-No. 498.025 |
| DT 297 PV/MK II LTD | Headset, 80 Ω, cardioid condenser microphone, with limiter, without cable Art.-No. 490.881 |
| DT 297 PV/MK II LTD | same as above, but 250 Ω Art.-No. 498.114 |
| DT 770 PRO LTD | 80 Ω, with limiter and cable Art.-No. 497.215 |
| DT 770 PRO LTD | 250 Ω, with limiter and cable Art.-No. 497.231 |
| DT 790.00 LTD | 80 Ω, with limiter and cable Art.-No. 497.908 |
| DT 797 PV LTD | 250 Ω, with limiter and cable Art.-No. 497.916 |

HEADZONE® PRO – PRO XT V2.1



5.1 Monitoring-Headphone System

The "Headzone®" 5.1 surround-sound headphone system is the first mobile headphone system in the world to offer professional monitoring with virtual 5.1 playback.

The sound quality is on a par with a real 5.1 speaker arrangement. "Headzone®" provides a fantastic solution to all well known problems surrounding headphones, such as locating the sound source "within" the head, lack of spatial information and movement of the sound with the head. The basis for this technology is advanced digital signal processing (DSP), combined with patented ultrasonic-headtracking.

Today also a home version of the "Headzone®" headphone system is available for hifi enthusiasts' private use, i.e. for use with home cinema, playing back surround music productions or gaming.

The Idea

Headzone® emerged from the idea of remodelling the effective parameters of an ideal auditory space with a certain loudspeaker set-up (up to 5.1) as convincingly and exactly as possible and to make this available in a compact and lightweight transportable device like an external sound card. With the help of the latest DSP-enabled signal processing, Headzone® processes the audio channels in such a way that they are heard in the headphones exactly as they would in an actual room: outside the head, in fixed positions and with a realistic sound impression. In contrast to other surround simulations using headphones, which produce an impressive but very diffuse "spatial effect" due to stereoscopic image widening and reverberation effects, Headzone® performs just like a real 5.1 loudspeaker system in a high-quality control room. Each surround channel is reproduced as a separate, virtual loudspeaker and can be positioned exactly as required by the user. Headzone® places key emphasis on the maximum accuracy of reproduction.

Versions



Headzone® PRO v2.1 9,5"



Headzone® PRO XT v2.1 19", without Headtracking

Headzone® PRO XT HT v2.1 19", with Headtracking



SPARE PARTS

Ear Cushions and Headbands

| | | |
|-------------|---|------------------|
| EDT 100 P | Ear cushions pair for DT 10*-versions, plush, black, suitable for the tropics | Art.-No. 945.576 |
| EDT 100 S | Ear cushions pair for DT 10*-versions, softskin (standard), black | Art.-No. 907.003 |
| EDT 100 T | Ear cushions pair for DT 10*-versions, cotton jersey, black, suitable for the tropics | Art.-No. 945.584 |
| EDT 150 S | Ear cushions pair for DT 150 and DT 190, softskin, black | Art.-No. 931.532 |
| EDT 232 V | Ear cushions pair for DT 231 PRO and DT 234 PRO, velours, black | Art.-No. 954.249 |
| EDT 250 S | Ear cushions pair for DT 25*-, DT 28*- and DT 29*-versions, softskin, black | Art.-No. 943.549 |
| EDT 250 V | Ear cushions pair for DT 25*-, DT 28*- and DT 29*-versions, velours, black (standard) | Art.-No. 942.704 |
| EDT 48 R | Ear cushions pair for DT 48 A.00, rubber | Art.-No. 907.313 |
| EDT 48 S | Ear cushions pair for DT 48 E-versions, softskin, black | Art.-No. 907.305 |
| EDT 300 LS | Ear cushions pair for DT 770-versions, leather, black | Art.-No. 900.702 |
| EDT 770 S | Ear cushions pair for DT 770 M, DT 79*-versions, softskin, black | Art.-No. 904.783 |
| EDT 770 V | Ear cushions pair for DT 770-versions, velours, anthracite (standard) | Art.-No. 926.660 |
| EDT 770 VB | Ear cushions pair for DT 770-versions and DT 79*-versions, velours, black | Art.-No. 906.166 |
| EDT 990 S | Ear cushions pair for DT 990 PRO, softskin, black | Art.-No. 904.791 |
| EDT 990 V | Ear cushions pair for DT 880-versions and DT 990 PRO, velours, anthracite (standard) | Art.-No. 926.679 |
| EDT 990 VB | Ear cushions pair for DT 880-versions and DT 990 PRO, velours, black | Art.-No. 904.163 |
| EDT 50 P | Ear cushions pair for DT 1350, softskin | Art.-No. 906.794 |
| EDT 1350 VB | Ear cushions pair for DT 1350, velours | Art.-No. 908.363 |

Headband Pads

| | | |
|--------------|---|------------------|
| Headband pad | for DT 48-versions | Art.-No. 926.713 |
| Headband pad | for DT 10*-versions | Art.-No. 908.715 |
| Headband pad | for PRO-Series (DT 770-versions / DT 79*-versions / DT 880-versions / DT 990 PRO) | Art.-No. 990.681 |
| Headband pad | for DT 150/190 | Art.-No. 977.163 |
| Headband | for DT 231 PRO and DT 234 PRO | Art.-No. 953.840 |
| Headband pad | for DT 25*-, DT 28*- and DT 29*-versions | Art.-No. 903.886 |
| Headband pad | for DT 1350 | Art.-No. 906.875 |

Ear Seals

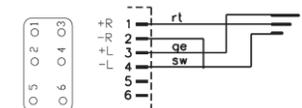
| | | |
|-------------------------------|--|------------------|
| EDT Cotton Ear Hygiene Covers | (5 pairs) for DT 25*-versions, DT 28*-versions, DT 29*-versions, DT 770-versions, DT 79*-versions, DT 880-versions, DT 990 PRO | Art.-No. 488.070 |
|-------------------------------|--|------------------|



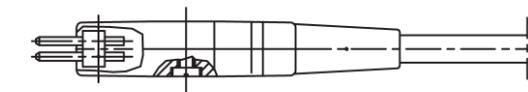
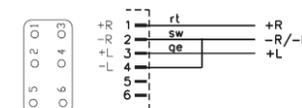
DT 100/150/200 Series – Headphones connection cables

| | | |
|-----------|--|------------------|
| K 100.07 | Straight connecting cable for DT 10*-Versions, DT 150, with gold-plated mini stereo jack plug (3.5 mm) / 1/4" adapter (6.35 mm), 3.0 m (9.84 ft) | Art.-No. 482.153 |
| WK 100.00 | Coiled connecting cable with free ends for DT 10*-Versions, DT 150, 3.0 m (9.84 ft) | Art.-No. 101.788 |
| WK 100.07 | Coiled connecting cable for DT 10*-Versions, DT 150, with gold-plated mini stereo jack plug (3.5 mm) / 1/4" adapter (6.35 mm), 3.0 m (9.84 ft) | Art.-No. 101.826 |
| K 250.07 | Straight connecting cable for DT 25*-Versions, with gold-plated mini stereo jack plug (3.5 mm) / 1/4" adapter (6.35 mm), 3.0 m (9.84 ft) | Art.-No. 700.258 |
| WK 250.07 | Coiled connecting cable for DT 25*-Versions, with gold-plated mini stereo jack plug (3.5 mm) / 1/4" adapter (6.35 mm), 3.0 m (9.84 ft) | Art.-No. 442.070 |

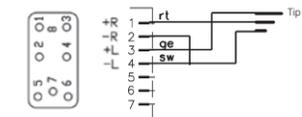
K 100.07
WK 100.07



WK 100.00



K 250.07
WK 250.07

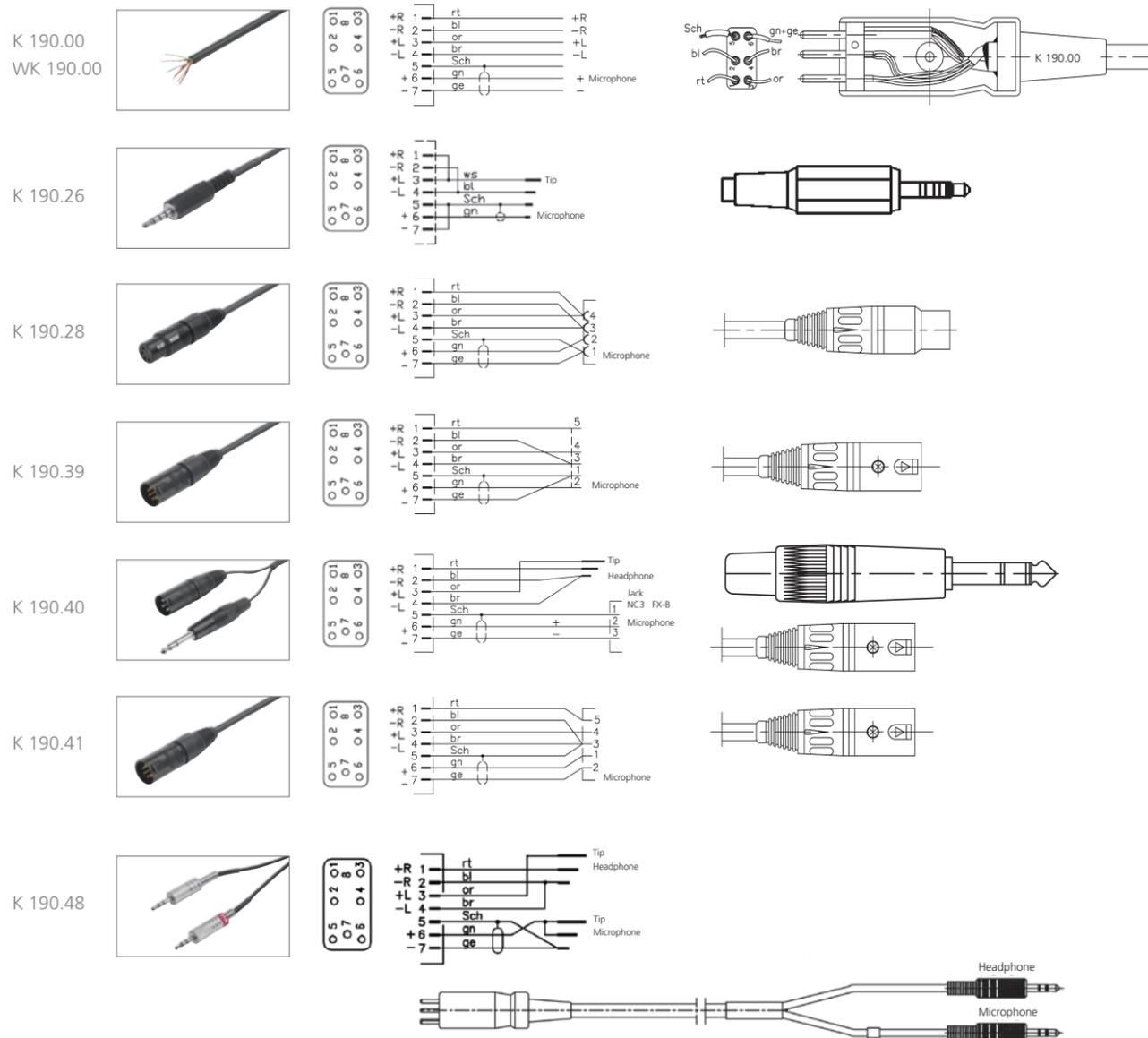
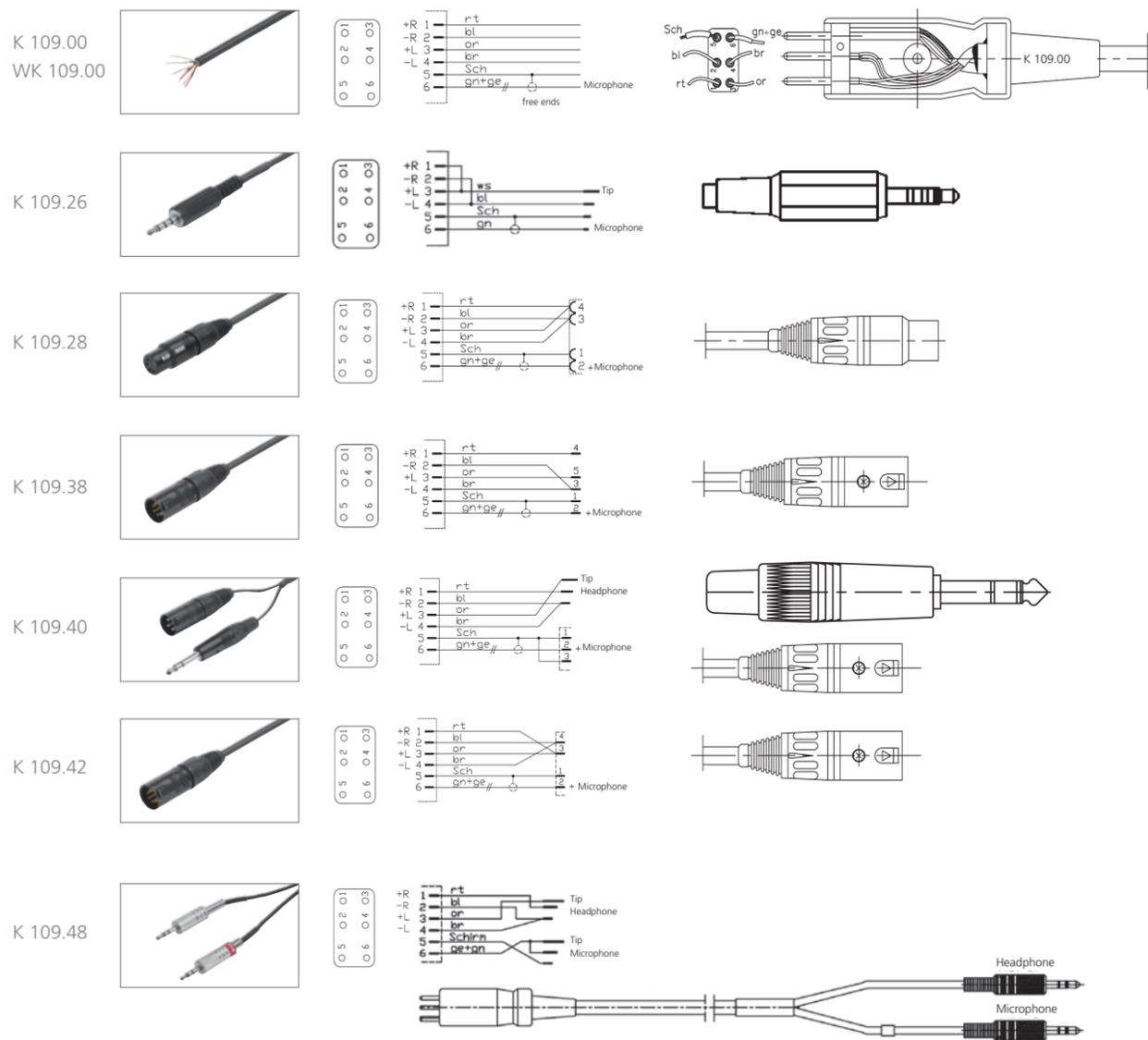


DT 100 Series – Headset connection cables

| | | |
|-----------|--|------------------|
| K 109.00 | Straight connecting cable with free ends, 1.5 m (4.92 ft) | Art.-No. 101.907 |
| K 109.00 | same as above, 3.0 m (9.84 ft) | Art.-No. 127.949 |
| K 109.26 | same as above, 1.5 m (4.92 ft), with 4-pin mini jack plug for SONY cameras (DR 100 compatible) | Art.-No. 491.802 |
| K 109.28 | Straight connecting cable with 4-pin XLR-female, 1.5 m (4.92 ft) | Art.-No. 220.132 |
| K 109.38 | Straight connecting cable with 5-pin XLR-male, 1.5 m (4.92 ft) | Art.-No. 406.538 |
| K 109.40 | Straight connecting cable with 3-pin XLR-male and 1/4" stereo jack (6.35 mm), 1.5 m (4.92 ft) | Art.-No. 449.121 |
| K 109.42 | Straight connecting cable with 4-pin XLR-male, 1.5 m (4.92 ft) | Art.-No. 446.548 |
| K 109.48 | same as above, 3.0 m (9.84 ft), 2 x mini stereo jack plug for multimedia applications | Art.-No. 481.688 |
| WK 109.00 | Coiled connecting cable with free ends, 3.0 m (9.84 ft) | Art.-No. 198.900 |

DT 190/200 Series – Headset connection cables

| | | |
|-----------|---|------------------|
| K 190.00 | Straight connecting cable with free ends, 1.5 m (4.92 ft) | Art.-No. 431.575 |
| K 190.00 | same as above, 3.0 m (9.84 ft) | Art.-No. 441.937 |
| K 190.26 | same as above, 1.5 m (4.92 ft) with 4-pin mini jack plug for SONY cameras (DR 100 compatible) | Art.-No. 491.799 |
| K 190.28 | Straight connecting cable with 4-pin XLR-female, 1.5 m (4.92 ft) | Art.-No. 445.304 |
| K 190.39 | Straight connecting cable for V.11 versions with 5-pin XLR-male, for professional cameras (Sony, Philips, Ikegami), 1.5 m (4.92 ft) | Art.-No. 475.181 |
| K 190.40 | Straight connecting cable with 3-pin XLR-male and 1/4" stereo jack (6.35 mm), 1.5 m (4.92 ft) | Art.-No. 445.894 |
| K 190.40 | same as above, 3.0 m (9.84 ft) | Art.-No. 446.750 |
| K 190.41 | Straight connecting cable with 5-pin XLR-male, 1.5 m (4.92 ft) | Art.-No. 445.312 |
| K 190.48 | Straight connecting cable with 2 x mini stereo jack plug for multimedia applications | Art.-No. 479.470 |
| WK 190.00 | Coiled connecting cable with free ends, 3.0 m (9.84 ft) | Art.-No. 448.176 |



ABBREVIATIONS

| | | |
|-------------|-------------|-----------------|
| bl = blue | gn = green | ws = white |
| br = brown | or = orange | Sch = shield |
| ge = yellow | rt = red | Schirm = shield |

Special cables on request at proaudio@beyerdynamic.de or Phone +49 (0) 71 31 / 6 17 - 4 40



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