

Comfortably functional... Headsets for Intercom & Radio Applications

As an intercom technology specialist, Riedel understands perfectly the specific demands and requirements of customers for intercom headsets. Headsets should be durable, light weight, small, comfortable and the cleaning and maintenance should be easy to manage. Riedel intercom headsets are a combination of optimal quality and reliable technology. Additionally, the headsets are completely compatible with radios, belt packs and intercom control panels from other manufacturers.



AIR – Ultra Light Professional Headset

The Riedel AIR series is the ideal ultra lightweight headset for customers who place great demands on quality, design and comfort. The AIR headset allows you to communicate with your immediate environment while simultaneously speaking and listening via your headset. The specially engineered Coolmax® material used for the exchangeable ear cushions provide great breathability and comfort for long hours. The 270° rotation of the microphone boom allows the microphone to be worn on either left or right side, and a noise compensating electret or dynamic microphone guarantees a high quality response.

Coolmax® is a registered trademark of INVISTA



PRO – Closed Professional Headset

The Riedel PRO series provides reliable, high-quality professional headsets that were designed in conjunction with beyerdynamic® to meet the demanding requirements of digital intercom applications. The headphone features a neodymium magnet system for accurate reproduction and balanced sound. The soft circumaural earcups provide very good noise attenuation and are as comfortable as the fully adjustable padded headband. The headset provides either a hypercardioid dynamic microphone or a high-quality omnidirectional condenser microphone for commentary applications. The 270° rotation of the microphone boom allows the microphone to be worn on either left or right side.

Specifications

AIR Headset

Headphone	AIR (D1/D2)	AIR (E1/E2)
Transducer type	Dynamic, open	Dynamic, open
Frequency response	100 Hz – 18 kHz	100 Hz – 18 kHz
Impedance (XLR4F version)	150 Ω 1 mW/1 kHz	150 Ω 1 mW/1 kHz
Characteristic SPL	91 dB 1 mW/1 kHz	91 dB 1 mW/1 kHz

Microphone

Transducer type	NC Dynamic	NC Electret
Polar pattern	Hypercardioid	Bi-Directional
Frequency response	150 Hz – 10 kHz	150 Hz – 15 kHz
Nominal Impedance	200 Ω	>1600 Ω
Supply power	---	4.5 V 400 µA

PRO Headset

Headphone	PRO (D1/D2)	PRO (E1/E2)
Transducer type	Dynamic, closed	Dynamic, closed
Frequency response	10 Hz – 30 kHz	10 Hz – 30 kHz
Impedance (XLR4F version)	250 Ω	250 Ω
Characteristic SPL	100 dB at 1 mW / 1 kHz	100 dB at 1 mW / 1 kHz

Microphone

Transducer type	Dynamic	Condenser (back-electret)
Polar pattern	Hypercardioid	Omnidirectional
Frequency response	40 Hz – 12 kHz	20 Hz – 18 kHz
Nominal impedance	200 Ω	680 Ω
Supply power	-	4.5 V 3.5 mA

MAX Headset

Noise Attenuation

Frequency / Hz	125	250	500	1,000	2,000	4,000	8,000
Attenuation (EN 24869-1) / dB	14	19	26	31	28	34	34

Headphone	MAX (D2)	MAX (E2)
Transducer type	Dynamic, closed	Dynamic, closed
Frequency response	80 Hz – 20 kHz	80 Hz – 20 kHz
Impedance (XLR4F version)	300 Ω	300 Ω
Characteristic SPL	94 dB at 1 mW / 1 kHz	94 dB at 1 mW / 1 kHz

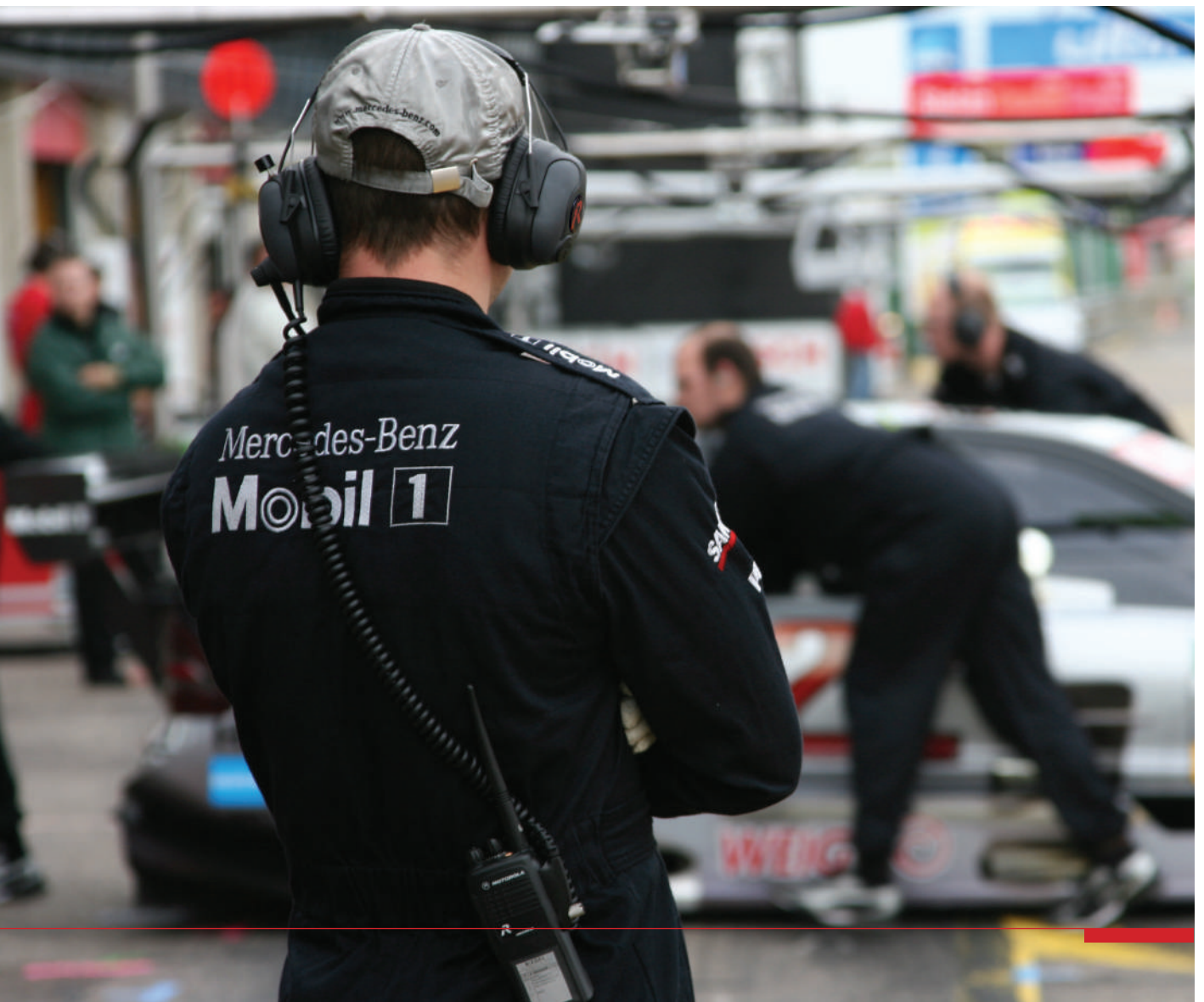
Microphone

Transducer type	Dynamic	Back electret
Polar pattern	Hypercardioid	Bidirectional noise cancelling, pressure gradient type
Frequency response	40 Hz – 12 kHz	150 Hz – 5 kHz
Nominal impedance	200 Ω	2.2 kΩ
Supply power	---	4.5 V 170 µA

Symbols

-   single headphone / dual headphones
-   dynamic microphone / electret microphone
-  omnidirectional condenser microphone for commentary applications
-  excellent noise attenuation for high-noise environments
-  microphone boom rotates 270° allowing for either left or right sided mic/headphone
-  exchangeable components for easy maintenance

The MAX headset has been designed for the special communications needs in motor sports such as Formula One. In this environment the crews at the pitwalls need to communicate under high ambient sound pressure levels.





MAX – High Performance Headset

The MAX series headsets have been specially designed for use in areas with high ambient noise levels. The headsets feature excellent attenuation abilities and therefore provides optimal hearing protection for their users. The special noise cancelling electret or dynamic microphone guarantees clear communications in all conditions. This makes Riedel's MAX headset the ideal choice for sound & light crews or TV camera intercom in sports or concert venues. MAX offers high comfort and low weight. The soft headset cushions are easily detachable for quick exchange and fit perfectly to the ear. The microphone boom rotates 270° and allows the microphone to be worn either on the left-hand or right-hand side.

Customized Accessories

In addition to the AIR, PRO and MAX headset series Riedel offers a wide range of accessories and customized solutions.

Connectors and Cables

All headsets are available with 4-pin XLR female as standard. The standard cable length is 1.5 meters. Customized connectors, cables and special PTT versions are available on request.