



## Technical Data

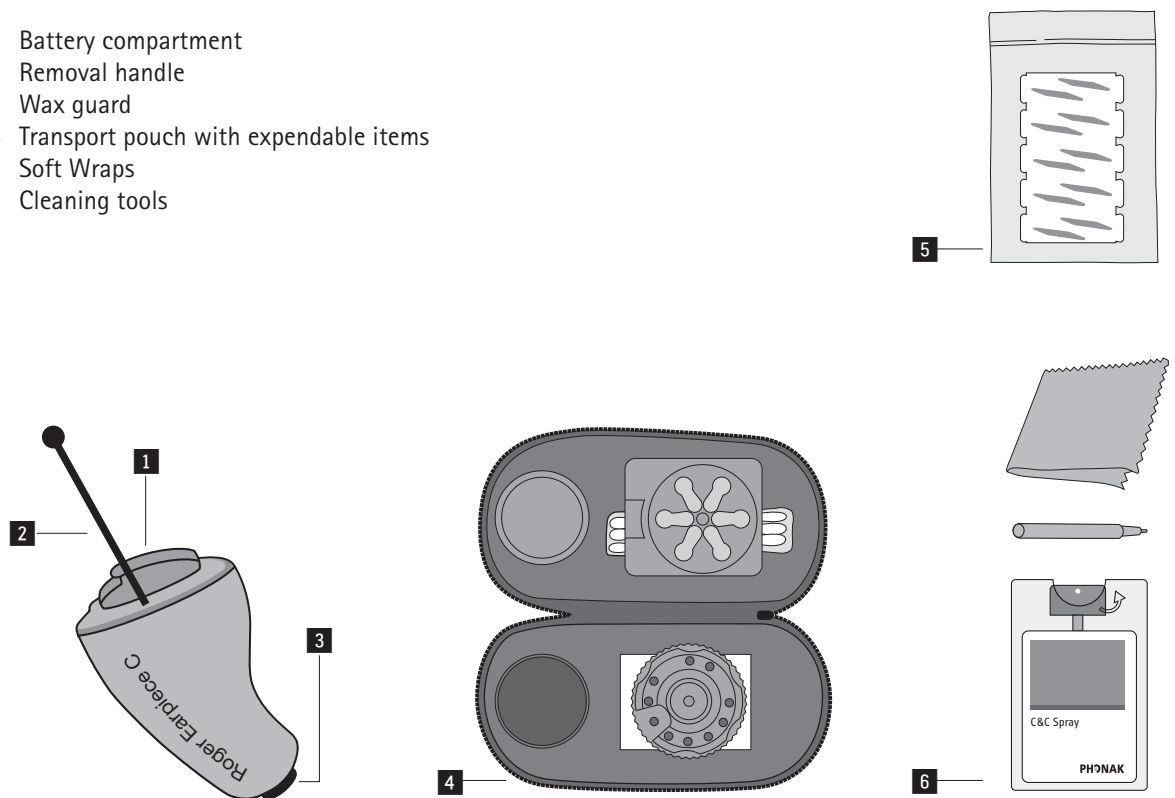
# Roger™ Earpiece C

The Roger™ Earpiece C is a masterpiece of miniaturized technology. It offers best-in-class secure audio reception on 2.4 GHz with AES-128 encryption. Discretion and a comfortable fit within the ear canal are guaranteed, thanks to its ergonomic design.

The Roger™ Earpiece C is a key element of Roger™ Covert 2.0, the unique digital covert communication system offering crystal-clear digital communication to ensure successful missions.

## Description

- 1 Battery compartment
- 2 Removal handle
- 3 Wax guard
- 4 Transport pouch with expendable items
- 5 Soft Wraps
- 6 Cleaning tools



## Features

- High audio quality
- Immune to magnetic fields
- License free Roger™ protocol
- More than 20h autonomy
- Adjustable output volume
- Audio stream AES encrypted
- Ear specific form factor
- Easy handling and cleaning

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## General information

Length:	18 mm (0.4")
Weight:	1.3 g (0.04 oz) incl. battery
Colors:	Beige / brown
Operating conditions:	0° to + 45° Celsius (+32° to +113° Fahrenheit) and relative humidity of <95% (non condensing)
Transport and storage conditions:	-20° to +60° Celsius (-4° to +140° Fahrenheit) and relative humidity of 90% for a long period

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## Power and battery information

Power supply:	Mercury free 10 Zinc Air
Current drain:	2.0 mA (Streaming) 1.5 mA (Sleep mode)
Operating time:	>20 h in full streaming

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## Audio information

Audio bandwidth:	100 Hz - 7200 Hz
Max. sound pressure level (automatically limited):	100 dB(A) SPL
SNR:	55 dB (@ 1 kHz)
THD:	-42 dB (< 0.8 % @ 1 kHz)

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## Roger™ technology

Roger™	Roger™ is a patented technology developed by Phonak, which features adaptive, wireless transmission and runs on the 2.4 GHz band. Roger™ audio signals are digitized and packaged into very short digital bursts of codes packets and broadcast several times, each time using different channels between 2.4000 and 2.4835 GHz. Frequency-hopping between channels, in combination with these repeated broadcasts, avoids interference issues and ensures successful transmission. Phonak has developed the proprietary Roger™ microchip for dedicated use with miniaturized ear-level receivers.
AES encryption	The transmission is secured with an AES 128-bits encryption where the code is exchanged at the time of on demand synchronization. The robust Advanced Encryption Standard (AES) is the algorithm trusted as the standard by the U.S. Government and numerous organizations.
Transmission technology:	2.4 GHz adaptive frequency hopping

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## Transmission information

Antenna:	Built-in antenna
Back-link power:	< 1 mW (0 dBm)

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## Standards applied

Encryption:	AES 128-bits
Electrical safety:	IEC EN 62368-1
Radiocom 2.4 GHz:	EN 300 440
EMC:	EN 301.489-1,-17
FCC:	Part 15C
IC:	RSS-210
Output max SPL:	100 dB(A) SPL according to EU standard EN 50332 Part 1&2 Fulfil EU directive 2003/10/EC

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## Compatibility with Roger™ devices

Compatible Roger™ transmitters:	Roger™ Covert C, Roger™ Covert Dual C separable Roger™ CarKit C
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