



**PELTOR™**  
Protection & Communication

3M™ PELTOR™ Professional In-Ear  
Communication Headset, PIC-100 EU

**Close-connect  
wireless technology  
for team communication.**

# The next generation protective communication solution.

With the 3M™ PELTOR™ PIC-100 Headset, 3M PELTOR brand is introducing multiple innovative technologies to help workers stay protected and productive.



# Hearing Protection with On-Demand Fit Test.

Featuring on-demand fit-test functionality at the push of a button, users can obtain their current personal protection level, and thereby help to ensure they have appropriate protection for their hazardous noise environment. Compatible with a number of different eartip styles and sizes, users can choose the eartips they prefer and ones that provide adequate protection.

- Replaceable eartips in multiple types & sizes.
- On-demand fit test assesses the wearer's current personal protection level: a binaural personal attenuation rating (PAR) at the push of a button.
- A field attenuation estimation system (FAES) in compliance with ANSI/ASA S12.71-2018.





# Environmental Listening.

The PIC-100 features environmental listening technology. This assists workers to communicate face-to-face, in low or intermittent noise, and to hear environmental sounds at safe levels without being tempted to remove or poorly fit their hearing protection.

- Environmental microphones.
- Compresses sound through the environmental microphones down below  $\approx 82$  dBA.
- Adjustable volume levels.
- Helps to communicate in lower noise environments while still protected.

# Bluetooth® technology.



The PIC-100 comes with **Bluetooth®** wireless communication technology for connection to smart devices and two-way radios. **Bluetooth®** multipoint technology for simultaneous, wireless connection to two devices.

For added long-range communication capability, simply connect to Bluetooth® enabled:

- Smart phones
- Tablets
- Two-way radios

## 3M™ Connected Equipment App

The 3M Connected Equipment App allows users to easily navigate the headset's menu and make adjustments. The app also provides ready access to user instructions, FAQs, instructional videos and tech support contacts. In addition, the app enables over-the-air firmware updates.



# Close-connect wireless technology for team communication

The PIC-100 headset features 3M's innovative close-connect wireless technology that allows multiple people to speak simultaneously, headset to headset, enabling communication in a variety of noisy environments when workers are in close proximity. Headsets automatically connect with one another as they come into range without any need for pairing. Voice Operated Transmission (VOX) enables users to seamlessly communicate, hands-free, without the touch of a button.

- 6 separate channels enable multiple groups to operate independently without interference.
- Configurable listening/talking options: Double press to change settings: VOX (voice activated transmission) and PTT (push-to-talk activated transmission).
- LED channel indication.
- No need for pairing; all PIC-100 headsets automatically connect to each other when in range.



Close-connect wireless technology for team communication

Up to  
**50**  
listeners

**4** Full-Duplex,  
Simultaneous  
talkers



**~ 20m / 22 yd**  
Depending on conditions



# In-Ear Communication Microphone.

Featuring an in-ear speech microphone, the PIC-100 headset is not dependent on a boom microphone near the mouth to detect speech, making the PIC-100 headset compatible with a wide range of personal protective equipment, including respirators.

- In-ear speech microphones in the earplugs pick up voice, eliminating the need for a traditional boom microphone.
- On-demand fit test helps assess the wearer's current personal protection level and promote speech clarity and transmission.
- Features a de-noising algorithm to help improve speech intelligibility in noisy environments\*.
- In-ear speech microphones make it compatible with most 3M respiratory protection including PAPRs, reusable respirators (full face and half face), and disposable respirators\*\*. No boom microphone necessary.

\* Speech intelligibility, using an in-ear microphone, may vary between different communication devices, and from person to person

\*\* Based on 3M internal evaluation including PAPRs, reusable respirators (full face and half face) and disposable respirators







# Earmuff Compatibility.

The 3M™ PELTOR™ PIC-100 System Control Unit (SCU) can also be connected to the 3M™ PELTOR™ CH-3\* Headset via a FLX2 cable for an over-the-ear configuration (headset and FLX2 cable available separately).

\*No environmental listening function or real-time fit test.



PIC-100 System Control Unit (SCU)

+



FLX2-214 Cable

+



CH-3 Headset

# Key Performance Specifications

<b>Power:</b>	
Battery type:	Removable Li-ion
Operating time:	Approximately 16h
Charging time:	Approximately 4h
Charging jack:	USB Type C 3.1
<b>Headset-to-Headset Full Duplex Radio:</b>	
Range:	Approximately 20m / 22 yd depending on conditions
Channels:	6
Channel capacity:	Up to 4 talkers and 50 listeners per channel
Modulation:	Time-division multiple access (TDMA) protocol
Frequency band:	863.5 - 864.75 MHz (EMEA)
Operation mode:	Full Duplex
<b>Bluetooth® technology :</b>	
Bluetooth version:	v5.1
Bluetooth headset profile (HSP):	1.2
Bluetooth hands-free profile (HFP):	1.7.1
Bluetooth audio/video remote control profile (AVRCP):	1.6
Bluetooth advanced audio distribution profile (A2DP):	1.3.1
Bluetooth Range:	Up to 10m/32ft (class 2)
Multi-point connection:	Yes
<b>Environmental Characteristics:</b>	
Operating temp:	-20°C to +50°C / -4°F to 122°F
Charging temp:	10° C/50° F to +30° C/86° F
Product Life:	Headset (2 years), SCU (4 years), Battery (2 years*)
Ingress Protection:	IP54 compliant
<b>Physical Characteristics:</b>	
<b>Control Unit Size:</b>	L: 101 mm / 3.96 in W: 65 mm / 2.55 in H: 35 mm / 1.37 in
<b>Weight:</b>	Headset (~32g/1 oz) SCU w/battery (~134g/4.65 oz)
<b>Recommended Storage Conditions :</b>	
(<90% humidity)	-20°C to +40°C / -4°F to 104°F
<b>Approvals</b>	
EMEA	STANDARD EN 352-2:2020
EMEA	In compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking.  PPE Regulation 2016/425 ROHS Directive 2011/65/EU RED Directive 2014/53/EU

\*NOTE: While stored, if possible, keep the batteries separate. Rechargeable Li-Ion batteries (removeable and non-removeable) have to be recharged every 6 months, not to lose capacity.

# Laboratory Attenuation (STANDARD EN 352-2:2020)

## PIC-100 with 3M™ PELTOR™ CCC-GRM-25

	f (Hz)							H	M	L	SNR
	125	250	500	1000	2000	4000	8000				
MV (dB)	32.1	35.7	39.1	37.7	37.7	40.2	46.6	38.2	37.4	36.1	38.9
SD (dB)	4.4	4.3	4.8	4.2	3.2	5.4	5.4	3.2	3.2	3.4	3.0
APV = MV - SD, (dB)	27.7	31.4	34.3	33.5	34.5	34.8	41.2	35	34	33	36

## PIC-100 with 3M™ UltraFit™ Communication Eartips

	f (Hz)							H	M	L	SNR
	125	250	500	1000	2000	4000	8000				
MV (dB)	30.6	32.6	34.4	31.6	34.5	34.1	44.0	34.0	32.4	31.9	34.4
SD (dB)	5.9	5.1	5.3	3.9	4.3	4.2	4.5	3.4	3.5	3.8	3.3
APV = MV - SD, (dB)	24.7	27.5	29.1	27.7	30.2	29.9	39.5	31	29	28	31

## PIC-100 with 3M™ Torque Communication Eartips

	f (Hz)							H	M	L	SNR
	125	250	500	1000	2000	4000	8000				
MV (dB)	33.4	37.0	39.7	39.5	37.7	41.6	45.7	38.8	38.4	37.1	39.8
SD (dB)	5.9	5.5	6.1	5.1	2.3	2.7	4.3	1.4	3.1	4.2	2.3
APV = MV - SD, (dB)	27.5	31.5	33.6	34.4	35.4	38.9	41.4	37	35	33	38

\*See important warnings on last page.

## Models:

Model #	SAP I.D.	3M I.D.	Description
PIC-100 EU	7100262855	70071766342	3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 EU

## Accessories & Replacement Parts

Model #	SAP I.D.	3M I.D.	Description
PIC-100HD	7100262876	70071766284	3M™ PELTOR™ Replacement Headset, PIC-100HD
PIC-100BA	7100262644	70071766292	3M™ PELTOR™ Replacement Battery, PIC-100BA
PIC-100CL	7100262875	70071766318	3M™ PELTOR™ Replacement Clip, PIC-100CL
PIC-100CS	7100268555	70071766276	3M™ PELTOR™ Charging Station, PIC-100CS
CCC-GRM-25	7100103087	70071675212	3M™ PELTOR™ CCC-GRM-25 Communication Eartips, 25 pairs
370-TEPL-25	7100066388	70071673746	3M™ UltraFit™ Communication Eartips, Large, 25 pairs
370-TEPM-25	7100066387	70071673738	3M™ UltraFit™ Communication Eartips, Medium, 25 pairs
370-TEPS-25	7100066371	70071673720	3M™ UltraFit™ Communication Eartips, Small, 25 pairs
PELTIP5-01	7000108492	XH0011679626	3M™ Torque™ Communication Eartips, 50 pairs

**⚠ WARNING!**

3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations and guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the attenuation rating be reduced to better estimate typical protection.

**⚠ WARNING!**

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protection at all times that you are exposed to noise may result in hearing loss or injury. For correct use, consult supervisor and User Instructions, or call 3M PSD Technical Service in the USA at 1-800-665-2942.



**3M Personal Safety Division**  
 3M Center, Building 235-2NW-70  
 St. Paul, MN 55144-1000

For more information:  
 Technical Service 1-800-665-2942  
 Customer Service 1-800-328-1667  
 3M.com/PELTOR

3M PSD products are occupational use only. In Europe, 3M PELTOR products may also be appropriate for certain non-work uses. Printed in USA. © 3M 2022. All rights reserved. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by 3M Company is under license. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. 3M, PELTOR, UltraFit and Skull Screws are trademarks of 3M Company, used under license in Canada.