



3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 EU Hearing Protection with On-Demand Fit Test (CE Version)

Product Description

The 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 is a next generation protective communication solution. The innovative, on-demand fit test informs the users of their personal protection level, while an in-ear speech microphone and multiple wireless technologies enable communication in noisy environments.

Key Features

- On-demand, real-time fit test complies with ANSI/ASA S12.71-2018
- Close-connect wireless technology
- Environmental listening
- Bluetooth® Multipoint connectivity
- In-ear speech microphone
- Voice Operated Transmission (VOX)
- Voice menu with multiple language selection (EN, FR, GB, ES)
- Rechargeable lithium-ion battery
- Replaceable eartips in multiple styles/sizes
- IP54 rated
- 3M™ PELTOR™ Connected App with over-the-air (OTA) updates



Applications

The 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 offers wireless com in noisy environments. Suitable for work in a wide range of industrial applications, when hands-communication and hearing protection are needed.

Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking. The full text of the Declaration of Conformity is available at the following internet address: www.3M.com/PELTOR/DOC. A copy of the Declaration of Conformity and additional information required in the Directives or Regulations can also be obtained by contacting 3M in the country of purchase.

Applicable Directives and Regulations

- PPE Regulation 2016/425
- ROHS Directive 2011/65/EU
- RED Directive 2014/53/EU

Models

Article number	Description	3M ID	SAP ID
PIC-100 EU	3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 EU	70071766342	7100262855

Accessories and Replacement Parts

Article number	Description	3M ID	SAP ID
PIC-100HD	3M™ PELTOR™ Replacement Headset, PIC-100HD	70071766284	7100262876
PIC-100BA	3M™ PELTOR™ Replacement Battery, PIC-100BA	70071766292	7100262644
PIC-100CL	3M™ PELTOR™ Replacement Clip, PIC-100CL	70071766318	7100262875
PIC-100CS	3M™ PELTOR™ Charging Station, PIC-100CS	70071766276	7100268555
CCC-GRM-25	3M™ PELTOR™ CCC-GRM-15 Communication Eartips, 25 pairs	70071675212	7100103087
370-TEPL-25	3M™ UltraFit™ Communication Eartips, Large, 25 pairs	70071673746	7100066388
370-TEPM-25	3M™ UltraFit™ Communication Eartips, Medium, 25 pairs	70071673738	7100066387
370-TEPS-25	3M™ UltraFit™ Communication Eartips, Small, 25 pairs	70071673720	7100066371
PELTIP5-01	3M™ Torque™ Communication Eartips, 50 pairs	XH0011679626	7000108492

Technical Data Specifications

Model	Weight
Headset:	Approx. 32 g/1 oz
System Control Unit (SCU) with Battery:	Approx. 134 g/4.65 oz

Headset-to-Headset Close-Connect Radio

Operation mode:	Full duplex
Channels:	6
Frequency Band:	863.5-864.75 MHz (EMEA)
Modulation:	Time-division multiple access (TDMA) protocol
Microphone type:	In-ear
Range:	Up to 22 yards/20 meters depending on conditions
Channel capacity:	Up to 4 talkers and 50 listeners per channel
Operating temperature:	-20° C/-4° F to +50° C/122° F
Output power:	Approx. 1 mW

Bluetooth® Technology

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/32 ft (class 2)
Multipoint connection:	Yes

Power

Li-Ion battery:	Removable, PIC-100BA
Charging time:	Approx. 4 hours
Charging jack:	USB Type C 3.1
Operating time:	Up to 16 hours (90 stby/5 tx/5 rx)
Charging temp:	10° C/50° F to +30° C/86° F

Storage and Product Life

Recommended storage conditions:	<90% humidity -20°C/4°F to +40°C/ 104°F
Recommended Product Life:	Headset – 2 years SCU – 4 years Battery – 2 years**

Use limitation: Never modify or alter this product.

**Note: While stored, if possible, keep the batteries separate. Rechargeable lithium-ion batteries (removable and non-removable) 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 below.

In the box

- 1 x 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 EU
- 1 x USB-C® Cable
- 1 x Sample Communication eartips
- 1 x User Instruction

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.



Personal Safety Division

3M Center, Building 235-2W-70
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3M PSD products are occupational use only. In Europe, 3M PELTOR products may also be appropriate for certain non-work uses.

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