



3M™ PELTOR™ LiteCom Headset

Product Description

The 3M™ Peltor™ LiteCom is a high-performance hearing protector with a built-in communication radio for cable free short-range communication with other LiteCom headsets and portable two-way radios programmed on the same frequency. The noise cancelling speech microphone with VOX functionality enables you to communicate hands free in noisy environments.



Key Features

- Built in two-way radio communication
- 8 channels in the PMR 446 MHz band
- 38 sub channels
- Voice operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice guided menu system

Standards and Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate directives or regulations to fulfill the requirements for the CE marking.

The full text of the EU 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.

Models

Article Number	Description	3M ID
MT53H7A4400-EU	LiteCom. PMR446, Headband	7000108540

Article Number	Description	3M ID
MT53H7B4400-EU	LiteCom, PMR446, Neckband	7000108542
MT53H7P3E4400-EU	LiteCom, PMR446, Hard Hat attach.	7000108541

Accessories and Spare Parts

Article Number	Description	3M ID
HY79	Hygiene kit	7100063118
HY100A	Single-use protectors	7100064410
HYM1000	Microphone protector tape	7100064281
M995/2	Wind shield for electret microphone	7010044372
ACK053	Rechargeable battery pack	7100075338
FR09	Battery charger	7100075611
FR08	USB 5V Power Supply	7000108521
MT53N-12/1	Electret microphone	7100147895
1180 SV/1	Battery cover	7100221901

Technical Data Specification

Table 1: Technical Data Specifications

Model	Weight, incl battery
Headband	394 g
Neckband	384 g
Hard hat attachment	418 g

Table 2: Built-in Two-way Radio

Frequency range:	PMR 446MHz
Operation mode:	Half-duplex
Channel capacity:	8
Channel spacing:	12,5k Hz
Modulation:	Analog: 2,5kHz (FM)
Receiver sensibility:	Typical -122 dB
Privacy Codes (subchannel):	38 CTCSS Sub Channels
Output power:	150 mW
Range:	Outdoors up to 2 km depending on conditions
Operating temperature:	-20°C to 50°C

Table 3: Built-in Radio Channel Frequencies

Channel Number	Frequency (MHz)
1	446.00625
2	446.01875
3	446.03125
4	446.04375
5	446.05625
6	446.06875
7	446.08125
8	446.09375

Table 4: Power

Battery type:	2x AA Alkaline or NiMH, alternative 3M PELTOR ACK053 rechargeable NiMH battery pack
Capacity (ACK053):	1900 mAh
Charging temperature:	0°C to 45°C
Operating time:	Up to 20 hours. Depending on the environment, temperature, and battery, the operation time may vary.

Table 5: Storage

Recommended storage condition:	-20°C to 40°C, <90% humidity
Recommended max. shelf life	5 years, except battery

Table 6: User Limitation

User limitation:	Never modify or alter this product.
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Table 7: Included in the Box

1x 3M PELTOR LiteCom
2x AA Alkaline battery
1x User instructions

Laboratory Attenuation

Standard EN 352-1:2020

Table 8: MT53H7A4400-EU

Octave-band Center Frequency	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Value (dB)	18.1	24.3	32.1	36.2	34.7	39.2	36	35.9	32.5	25.5	34
Standard Deviation (dB)	2.4	1.7	2.2	2.5	3.6	3.3	2.4	2.6	1.6	1.9	1.5
Assumed Protection Value (dB)	15.7	22.6	29.9	33.7	31.1	35.9	33.6	33	31	24	33

Table 9: MT53H7B4400-EU

Octave-band Center Frequency	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Value (dB)	16.9	23.2	32.1	35.2	35.6	38.3	37.4	36.5	31.8	24.3	33.6
Standard Deviation (dB)	3	2.4	2.5	2.1	2.9	3.7	3.2	2.5	1.8	2.3	1.8
Assumed Protection Value (dB)	13.9	20.8	29.6	33.1	32.7	34.6	34.2	34	30	22	32

Standard EN 352-3:2020

Table 10: MT53H7P3E4400-EU

Octave-band Center Frequency	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Value (dB)	18.4	24.5	31.9	37.1	35.2	39.2	36	36.4	32.7	25.6	34.3
Standard Deviation (dB)	2.8	1.9	3.1	3.0	2.6	2.9	2.8	1.8	1.8	2.0	1.5
Assumed Protection Value (dB)	15.6	22.6	28.8	34.1	32.6	36.3	33.2	35	31	24	33



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 value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

Warranty and Important Notice

Warranty

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For complete warranty condition, contact your dealer or local 3M office.

Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. 3M acknowledges the respective Trademark Owners' rights in this literature.



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