

# 3M™ Peltor™ Wireless Communication X Series Earmuff Accessory

## Technical Data Sheet



**Product reference: 3M MT6705WS6-EU**

### Product Description

The 3M™ Peltor™ Wireless Communication X Series Earmuff accessory MT6705WS6-EU is designed for use with the following 3M™ Peltor™ X Series Earmuffs:

Headband version: X1A, X2A, X3A, X4A, X4A-OR and X5A

Helmet mounted version: X1P5, X1P5-OR, X2P5, X3P5, X4P5, X4P5-OR and X5P5

To use the accessory, simply replace the existing cushion on the left-hand side of the 3M™ Peltor™ X Series Earmuffs.

When fitted to the 3M™ Peltor™ X Series Earmuffs, the Bluetooth accessory converts the passive hearing protector into a wireless communication device. The Bluetooth accessory is automatically paired with your mobile devices thus enabling hands-free communication in noisy environments, without compromising protection.

### Standard & Approval

The 3M™ Peltor™ Wireless Communication accessory MT6705WS6-EU, when attached to appropriate earmuffs, has been type examined by Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41b, FI-00250 Helsinki, Finland (Notified Body number 0403) in accordance with EN 352-1:2002, EN 352-3:2002, EN 352-6:2002 and EN 352-8:2008.

### Technical specification

Battery type	Lithium ion
Microphone	Noise-cancelling (electret)
Talk/stream time	Approximately 8 hours
Standby time	250 hours
Battery charge time	Approximately 3 hours
Operating temperature	- 20°C to + 55°C
Storage temperature	- 20°C to + 35°C
Hygiene kit spare part	HYX4
Ingress Protection rating	IP54
Battery recharge	Built-in micro USB charging socket



**Important:** The accessory is not ATEX approved and therefore must **NOT** be used in an intrinsically safe environment.

When fitted to the 3M™ Peltor™ X Series Earmuffs, the complete device provides attenuation value ranging from SNR 27dB to SNR 36dB, thus meeting the needs of a wide range of noise environments.

## Helmet mounted approved listing

The helmet mounted version of the complete device is tested and approved for use with the following safety helmets.

Helmet brand	Helmet model	Helmet attachment	Sizing/Adjustability				
			X1P5E	X2P5E	X3P5E	X4P5E	X5P5E
3M	G3000	E	SML	ML	ML	SML	L
3M	H-700	E	L	L	L	L	L
3M	G500 Headgear	E	SML	SML	SML	SML	SML
Protector/Scott	Style 600	E	SML	SML	L	SML	L
Schuberth	EuroGuard	E	L	L	L	L	L

Mass of accessory: 55 g

## Attenuation values

When attached the 3M™ Peltor™ X Series Earmuffs, the complete device offers the following attenuation values.

3M™ Peltor™ X1A							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
M <sub>f</sub> (dB)	14.3	17.7	22.9	32.9	34.5	36.0	35.5
S <sub>f</sub> (dB)	2.6	2.9	2.5	4.6	2.6	2.8	5.1
APV <sub>f</sub> (dB)	11.7	14.8	20.4	28.3	31.9	33.2	30.4
SNR = 27dB		H = 32dB	M = 24dB	L = 17dB			

3M™ Peltor™ X2A							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
M <sub>f</sub> (dB)	15.6	23.5	28.2	40.3	37.1	32.6	35.7
S <sub>f</sub> (dB)	2.1	1.6	2.2	3.1	3.5	2.3	3.5
APV <sub>f</sub> (dB)	13.5	21.9	26.0	37.2	33.6	30.3	32.2
SNR = 31dB		H = 33dB	M = 29dB	L = 22dB			

3M™ Peltor™ X3A							
Frequency (Hz)	125	250	500	1000	2000	4000	8000
M <sub>f</sub> (dB)	18.6	24.9	27.8	38.5	37.8	35.8	36.9
S <sub>f</sub> (dB)	2.4	2.2	2.1	2.8	2.9	3.0	3.8
APV <sub>f</sub> (dB)	16.2	22.7	25.7	35.7	34.9	32.8	33.1
SNR = 32dB		H = 34dB	M = 30dB	L = 23dB			

# 3M™ Peltor™ Wireless Communication X Series Earmuff Accessory

## 3M™ Peltor™ X4A, X4A-OR

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	17.6	21.6	28.4	41.4	38.0	43.1	41.6
$S_f$ (dB)	2.7	1.8	1.8	3.4	3.2	2.2	2.1
$APV_f$ (dB)	14.9	19.8	26.6	38.0	34.8	40.9	39.5
SNR = 32dB		H = 37dB	M = 30dB	L = 21dB			

## 3M™ Peltor™ X5A

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	20.1	29.1	39.3	42.4	37.5	39.8	39.0
$S_f$ (dB)	1.9	2.0	2.5	3.0	3.2	3.0	3.2
$APV_f$ (dB)	18.2	27.1	36.8	39.4	34.3	36.8	35.8
SNR = 36dB		H = 36dB	M = 35dB	L = 27dB			

## 3M™ Peltor™ X1P5, X1P5-OR

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	11.4	18.1	26.5	35.0	33.5	38.4	34.0
$S_f$ (dB)	3.5	2.4	2.1	2.4	2.9	2.8	4.0
$APV_f$ (dB)	7.9	15.7	24.4	32.6	30.6	35.6	30.0
SNR = 28dB		H = 32dB	M = 25dB	L = 16dB			

## 3M™ Peltor™ X2P5

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	12.7	22.3	30.2	38.3	35.4	33.7	34.5
$S_f$ (dB)	3.8	2.6	1.6	2.1	2.9	4.0	4.4
$APV_f$ (dB)	8.9	19.7	28.6	36.2	32.5	29.7	30.1
SNR = 29dB		H = 32dB	M = 28dB	L = 18dB			

## 3M™ Peltor™ X3P5

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	17.4	25.9	31.1	39.7	36.8	36.5	33.9
$S_f$ (dB)	3.2	2.8	2.5	3.5	3.0	3.1	5.0
$APV_f$ (dB)	14.2	23.1	28.6	36.2	33.8	33.4	28.9
SNR = 32dB		H = 33dB	M = 31dB	L = 23dB			

# 3M™ Peltor™ Wireless Communication X Series Earmuff Accessory

## 3M™ Peltor™ X4P5, X4P5-OR

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	14.1	21.7	28.5	37.9	34.7	43.9	41.6
$S_f$ (dB)	1.7	2.2	2.2	2.6	2.8	3.1	4.2
$APV_f$ (dB)	12.4	19.5	26.3	35.3	31.9	40.8	37.4

SNR = 31dB      H = 35dB      M = 28dB      L = 20dB

## 3M™ Peltor™ X5P5

Frequency (Hz)	125	250	500	1000	2000	4000	8000
$M_f$ (dB)	19.7	29.5	38.5	41.2	36.7	38.5	38.9
$S_f$ (dB)	1.7	1.3	2.9	4.2	3.4	3.2	3.5
$APV_f$ (dB)	18.0	28.2	35.6	37.0	33.3	35.3	35.4

SNR = 35dB      H = 35dB      M = 34dB      L = 27dB

### Key

$M_f$  (dB) = Mean attenuation

$S_f$  (dB) = Standard deviation

$APV_f$  (dB) = Assumed Protection Value

### Replacement part

If the earmuff cushion is damaged it should be replaced with the 3M™ Peltor™ Hygiene Kit HYX4.

### Key

$APV_f$  = Assumed Protection Value

$M_f$  = Mean attenuation value

$sf$  = Standard deviation

H = High-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = -2dB$ )

M = Medium-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +2dB$ )

L = Low-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +10dB$ )

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear).

### IMPORTANT NOTICE

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

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