

## **3M™ Peltor™ Push-To-Listen (PTL) Ear Muffs**



### **Product Description:**

The 3M Peltor Push-To-Listen (PTL) ear muffs are available in headband and helmet mounted version. This product features level dependent function that helps improve communication in a noisy environment.

When correctly selected and worn these products help reduce exposure to hazardous levels of noise and loud sounds.

The helmet mounted version is designed to fit a wide range of industrial safety helmets (see below for further details).

### **Key Features:**

- Stylish cup design
- Level dependent function can be easily activated by simply pressing the button located on the cup and lasts for 30 seconds but can be reactivated at any time
- Amplifies predominantly speech frequencies thus improving speech intelligibility
- Battery life approximately 150 hours
- Low profile headband design helps maintain constant pressure thus providing confidence in protection
- Soft wide cushions helps reduce pressure around the ears and improves comfort and wearability
- Easy to replace cushions and inserts helps keep them hygienically clean
- Easy to understand attenuation symbol to help ensure correct product selection
- Helmet mounted version fits directly to a large range of industrial safety helmets

### **Helmet mounted approved combination:**

<b>Helmet Brand*</b>	<b>Model**</b>	<b>P3 Adaptor***</b>	<b>Approved Size Combination</b>
3M™	1465	E	ML
Auboueix	Brennus	F	SML
Auboueix	Fondelec	F	SML
Auboueix	Iris	E	ML
Auboueix	Iris 2	E	ML
Sofop Taliaplast	Oceanic	E	ML
Sofop Taliaplast	Opus	E	ML
Berendsen Safety	Balance HD	N	SML
Centurion	1125/ARCO Plus	H	SML
Centurion	1100/ARCO Type 2	H	ML
Centurion	1540/ARCO	A	ML
Evert Larsson	Robust	E	SML
Evert Larsson	Balance	E	ML
Evert Larsson	Balance AC	E	ML
Kemira	Top Cap	A	SML
LAS	LP2002	E	SML
LAS	LP2006	E	SML
MSA	Super V-Gard II	E	SML
MSA	V-Gard	E	SML

Peltor	G2000	K, E	SML
Peltor	G22 Basic Combination	E	SML
Peltor	G3000	E	SML
Petzl	Vertex	E	SML
Protector	Style 300	E	SML
Protector	Style 600	G	SML
Protector	Tuffmaster II	E, G	ML
Romer	Bravo 2 Nomaz	B	SML
Romer	Marcus Top 2 Atlas Nomaz	B	SML
Romer	N2 Atlas Nomaz	BB	SML
Romer	Profi Expo	E	SML
Romer	Profi Nomaz	E	SML
Romer	Top Expo Atlas	B	SML
Schuberth	BEN	BB	SML
Schuberth	BER80/WPC80	EA	SML
Schuberth	BER S	E	SML
Schuberth	BOP R	B	SML
Schuberth	Pionier	B	SML
Schuberth	SH 91/WPL 91	EB	SML
Schuberth	SW1	EB	ML
Uvex	Airwing	E	SML
Voss	Inap 88	E	SML
Voss	Inap Master	E	ML
Voss	Inap Star	E	ML
Voss	Inap PCG	G	ML

\*Protector Style 300 includes all 300-versions of this helmet.

### **Applications:**

The 3M Peltor PTL ear muffs are ideal for protection against noise arising from a wide range of applications in the workplace where communication may be essential. Examples of typical applications include:-

- Construction
- Engineering
- Chemical & pharmaceutical manufacture
- Metal processing
- Automotive
- Agriculture
- Woodworking

### **Standard & Approval:**

The 3M Peltor PTL ear muffs are tested and CE approved against the European Standard EN352-1:2002 (headband version) and EN352-3: 2002 (helmet mounted version). These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC. These products have been examined at the design stage by the Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41aA, FIN-00250 Helsinki, Finland (Notified Body number 0403).

**Materials:**

The following materials are used in the manufacture of this product.

	<b>Headband version</b>	<b>Helmet Mounted Version</b>
Headband/Neckband	Stainless steel wire, PVC, Acetal	N/A
Helmet Attachment Arm	N/A	Stainless steel wire, Acetal, Polyamid
Cups	ABS	ABS
Inserts	Polyether	Polyether
Cushions	Polyether and Glycerine.	Polyether and Glycerine
Cushion Covers	PVC	PVC

**Sound Attenuation:****Head Band Version**

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	18	17.4	24.1	30.8	36.1	34.3	34.9	33.2
sf (dB)	4.0	4.1	3.3	4.2	2.4	2.5	2.8	2.3
APVf (dB)	14.0	13.3	20.8	26.6	33.7	31.8	32.1	30.9

SNR = 31dB

H = 32dB

M = 29dB

L = 21dB

**Helmet Mounted Version**

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	17.2	17.6	22.5	28.4	34.3	32.5	33.8	31.8
sf (dB)	4.0	4.1	3.3	2.2	3.8	3.3	1.9	5.0
APVf (dB)	13.2	13.5	19.2	26.2	30.5	29.2	31.9	26.8

SNR = 29 dB

H = 30 dB

M = 27 dB

L = 21 dB

**Criterion Level:-  
Headband Version**

External Sound Level dB(A)													Criterion Level
	65	70	75	80	85	90	95	100	105	110	115	120	
H-Noise, (Mf) dB(A)	64.6	69.9	74.5	77.4	78.8	79.5	80.2	80.6	80.6	80.7	81.1	82.3	H=120dB(A)
H-Noise (sf) dB(A)	2.9	3.3	3.3	2.9	2.6	2.5	2.4	2.9	3.5	3.0	2.9	2.5	
M-Noise (Mf), dB(A)	64.8	68.1	69.7	70.9	71.9	73.0	74.4	76.5	79.2	83.1	87.0	90.8	M=119dB(A)
M-Noise (sf), dB(A)	2.6	3.6	3.5	3.6	3.7	3.7	3.3	2.7	2.1	1.4	1.8	2.8	
L-Noise (Mf), dB(A)	63.9	66.1	67.7	69.2	70.8	73.0	76.0	79.5	84.1	88.3	91.4	94.6	L=107dB(A)
L-Noise (sf), dB(A)	3.3	3.9	3.9	3.6	2.8	2.8	1.8	2.6	2.0	1.8	1.9	2.2	

**Helmet Mounted Version**

External Sound Level dB(A)													Criterion Level
	65	70	75	80	85	90	95	100	105	110	115	120	
H-Noise (Mf) dB(A)	60.0	63.4	66.7	69.2	70.2	71.1	72.4	73.3	75.0	77.5	80.5	83.3	H=120dB(A)
H-Noise (sf) dB(A)	4.5	5.5	4.5	3.5	4.5	3.2	4.3	4.5	4.6	4.0	5.1	4.5	
M-Noise (Mf), dB	62.9	65.0	66.8	68.0	69.2	70.6	72.4	74.6	77.3	81.2	85.7	90.8	M=119dB(A)
M-Noise (sf), dB	4.1	4.8	3.5	3.8	4.6	4.4	3.5	2.3	2.9	2.4	3.2	2.2	

L-Noise (Mf), dB	59.9	62.7	63.0	64.7	67.2	70.2	73.9	78.5	83.5	87.5	91.7	97.8	L=107dB(A)
L-Noise (sf), dB	3.8	3.8	4.6	4.5	3.4	3.5	2.9	2.8	3.4	2.6	3.5	4.3	

### Accessories/Replacement

The cushions and inserts on the Optime range I can be replaced with the HY53 PTL Hygiene Kit for improved comfort and reassured protection.

The HY100A and HY100A-01 Hygiene Pads can be placed on the cushions to help absorb moisture and sweat.

### Key:

APVf = Assumed Protection Value

Mf = Mean attenuation value

sf = Standard deviation

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

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

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

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

For Criterion Level:

H-Noise (Mf): H-Noise spectra mean attenuation

H-Noise (sf): H-Noise spectra standard deviation

M-Noise (Mf): M-Noise spectra mean attenuation

M-Noise (sf): M-Noise spectra standard deviation

L-Noise (Mf): L-Noise spectra mean attenuation

L-Noise (sf): L-Noise spectra standard deviation