

3M™ PELTOR™ H505B Earmuff

Technical datasheet



Product description

The 3M™ PELTOR™ H505B Earmuff is available in a neckband version only and is designed to be used with 3M™ Speedglas™ Welding Shields. These earmuffs provide a low to moderate level of attenuation that meets the needs of most welding industry applications.

Key features

- ▶ Reduces noise levels up to 24dB SNR
- ▶ Modern, stylish, slim line cup design
- ▶ Bevelled cup helps minimise interference between the hearing protector and other protective equipment
- ▶ Neckband design helps improve compatibility with other protective equipment
- ▶ Soft wide foam cushions helps reduce pressure around the ears and improves comfort and wearability
- ▶ Replaceable cushions and inserts are available separately to extend the life of your earmuffs
- ▶ Earmuffs are available in black

Applications

Although ideal for use in the welding industry, these earmuffs can also be used in a wide range of other industrial applications to protect against hazardous noise. Examples of typical applications include:

- ▶ Welding Industry
- ▶ Agriculture
- ▶ Automotive
- ▶ Construction
- ▶ Chemical and pharmaceutical manufacture
- ▶ Light engineering
- ▶ Woodworking

Material listing

The following materials are used in the manufacture of this product

Component	Material
Neckband	Stainless steel wire, Polyolefin (PO)
Head strap	Polyester, Polypropylene (PP), Polyamide (PA)
Cups	ABS (acrylonitrile butadiene styrene)
Insert	Polyurethane foam
Cushions	Polyurethane foam and PVC
Cushion cover	PVC (polyvinyl chloride)

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 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.

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.

Accessories/replacement

The cushions and inserts on the 3M™ PELTOR™ H505B earmuffs can be replaced with the hygiene kits listed below to maintain consistent protection, hygiene, and comfort.

Earmuff model	Hygiene kit
3M™ PELTOR™ H505B Earmuff	HY220


In addition, HY100 sweat pads are also available that can be placed on the cushions to help absorb moisture and sweat.



Attenuation values and weight

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EN 352-1:2020

	Frequency (Hz) <i>f</i>							H	M	L	SNR	
	125	250	500	1000	2000	4000	8000					
Mf (dB)	12.9	13.1	23.3	27.3	32.6	37.4	35.4	32.3	23.5	16.5	26.2	149 g
SD (dB)	4.5	3.6	3.2	2.7	3.3	3.9	4.9	2.2	2.6	3.2	2.6	
APVf (dB)	8.4	9.5	20.1	24.6	29.3	33.5	30.5	30	21	13	24	

Attenuation table key:

f = Test frequency

Mf = Mean attenuation value

SD = Standard deviation

APVf (Mf - SD) = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with LC – LA = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with LC – LA = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with LC – LA = +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

Product Selection and Use: Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application.

As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms & conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.

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