

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 moderate level of attenuation that meets the needs of most welding industry applications.

Key features

- ▶ Modern, stylish slim line cup design
- ▶ Neckband design helps improve compatibility with other protective equipment
- ▶ Spacious internal cup design helps reduce moisture and heat build-up
- ▶ Soft wide cushions helps reduce pressure around the ears and improves comfort and wearability
- ▶ Easy to replace cushions and inserts helps keep earmuffs hygienically clean

Applications

3M™ PELTOR™ H505B Earmuff, although ideal for use in the welding industry, can also be used in a wide range of other industrial applications to protect against hazardous noise and loud sounds.

Examples of typical applications include:

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

Attenuation values

3M™ PELTOR™ H505B neckband version

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|
| Mf (dB) | 11.4 | 12.3 | 24 | 23.4 | 34.3 | 38.8 | 38.7 |
| Sf (dB) | 2.6 | 2.6 | 2.7 | 2.3 | 2.5 | 2.5 | 3.8 |
| APVf (dB) | 8.8 | 9.7 | 21.3 | 21.1 | 31.8 | 36.3 | 34.9 |

SNR = 24dB H = 29dB M = 20dB L = 13dB APVf = Mf – Sf

Standards and approvals

Hereby, 3M Svenska AB declares that the PPE type earmuff is in compliance with Regulation (EU) 2016/425 and other appropriate directives to fulfill the requirements for the CE marking.

The applicable legislation can be determined by reviewing the Declaration of Conformity (DoC) at www.3M.com/PELTOR/doc. The DoC will also show if some other type-approvals are also applicable. A copy of the DoC and additional information required in the directives can also be obtained by contacting 3M in the country of purchase. These PPE products are audited annually and type approved by SGS Fimko Ltd., Takomotie 8, FI-00380 Helsinki, Finland, Notified Body No. 0598. The product has been tested and approved in accordance with EN 352-1:2002/EN 352-3:2002.

Material listing

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

| Component | Neckband version |
|-----------------------|-----------------------------------|
| Headband | Stainless steel wire, PVC, Acetal |
| Helmet attachment arm | N/A |
| Cups | ABS |
| Insert | Polyether |
| Cushions | Polyether and glycerine |
| Cushion covers | PVC |

Accessories/replacement

The 3M™ PELTOR™ HY505 and 3M™ PELTOR™ 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)

Warning

This hearing protector helps reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protection at all times when exposed to hazardous noise may result in hearing loss or injury. For proper use, see supervisor, User Instructions or call 3M Technical Services. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, leave the noisy environment immediately and consult a medical professional and/or your supervisor.

Warning

Research suggests that users may receive less noise reduction than indicated by the attenuation value(s) on the packaging, due to variation in fit, fitting skill, and motivation of the user. Refer to your applicable regulations for guidance on how to adjust label values and estimate attenuation. In addition, 3M strongly recommends fit testing of hearing protectors.

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. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

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OMG326168

