

Technical Datasheet

E-A-R™ Express™ Earplugs



Product Description

The E-A-R™ Express™ pod earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. These products are available in corded and uncorded version.

Key Features

- Unique pod design
- Patented E-A-R foam tip which is shaped and sized to mould comfortably thus providing effective seal
- No roll-down required
- Insertion stem helps eliminate the need to touch the tip when fitting
- One size fits majority wearers
- Washable and re-usable
- Supplied in re-sealable pillow-pack for ease of use
- Available in both corded and uncorded version

Applications

The E-A-R™ Express™ earplugs are ideal for moderate to high noise exposure levels, and are ideally suited for all frequency noise in a wide range of industrial workplace and leisure environment. Examples of typical applications include:

- Automotive
- Construction
- Chemical & pharmaceutical manufacture
- Heavy engineering
- Metal processing
- Textile manufacture
- Woodworking

Standard & Approval

The E-A-R™ Express™ pod earplugs are tested and CE approved against the European Standard EN352-2:1993. These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and have been examined at the design stage by INSPEC International Limited, 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, UK (Notified Body number 0194).

Materials

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

| Component | Material |
|-----------|-------------------|
| Earplugs | Polyurethane Foam |
| Cord | PVC |



Attenuation values

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|------|
| Mf (dB) | 27.8 | 26.0 | 24.9 | 25.2 | 29.4 | 34.9 | 37.0 | 35.9 |
| sf (dB) | 5.4 | 4.5 | 3.3 | 5.0 | 4.2 | 4.1 | 5.2 | 3.7 |
| APVf (dB) | 22.4 | 21.5 | 21.5 | 20.2 | 25.2 | 30.8 | 31.8 | 32.2 |

SNR = 28dB H = 30dB M = 24dB L = 22dB

Key

APVf (dB) = Mf – sf (dB)

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

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, L(C) in order to estimate the effective A-weighted sound pressure level inside the ear).

Important Notice

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