

# Technical Datasheet

## E-A-R™ Push-Ins™ Earplugs



### Product Description

The E-A-R™ Push-Ins™ 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

- No roll-down required
- Low pressure seal
- Insertion stem helps eliminate the need to touch the tip when fitting
- Ear tip softens and becomes more pliable with body temperature
- Wearer comfort increases the longer the product is worn
- One size fits majority wearers
- Washable and re-usable
- Available in both corded and uncorded version

### Applications

The E-A-R™ Push-Ins™ earplugs are ideal for high noise exposure levels, and are particularly suited for low frequency type noise in a wide range of industrial workplace and leisure environment. Examples of typical applications include:

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

### Standard & Approval

The E-A-R™ Push-Ins™ earplugs are tested and CE approved against the European Standard EN352-2:2002. 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	Slow recovery polymer foam
Stem	Semi-rigid polymer
Cord	PVC



### Attenuation values

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	34.8	37.0	28.2	40.2	39.9	40.1	41.9	41.1
sf (dB)	5.0	5.7	6.0	4.5	5.0	3.3	3.8	3.7
APVf (dB)	29.8	31.3	32.2	35.7	34.9	36.8	38.1	37.4

SNR = 38dB                      H = 37dB                      M = 36dB                      L = 34dB

#### 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).

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