3M Science. Applied to Life.™

E-A-R™ Flexible Fit Earplug Earplugs

Technical Data Sheet

Product Description

The 3M™ E-A-R™ Flexible Fit Earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound.

These earplugs are available in corded and uncorded version. When properly selected and worn according to the User Instructions, they may be used for protection against high noise environments, providing effective protection across all test frequencies.

328-1000

328-1001

Features

- Reusable, suggested use for up to 2 weeks when following wash and care instructions (*see cleaning & maintenance*)
- Foam encapsulated design means total earplug (stem and tip) are made with 3M patented washable foam
- Foam is resilient, predominantly closed cell TPE, which is water resistant
- The conical shape of the earplug along with the soft conforming foam helps provide a snug and comfortable fit
- No roll-down required helps keep the earplugs clean during fitting
- Firm yet flexible fitting stem and no foam roll-down means earplugs can be inserted and removed easily, even when wearing gloves
- Attenuation data available for both two hand insertion (SLC80 20dB) and one hand insertion (SLC80 16dB) - see full attenuation table
- Compatible with the 3M™ E-A-Rfit™ Dual-Ear Validation System
- 3M™ E-A-R™ Flexible Fit Earplug - corded (328-1001) and uncorded (328-1000)

Applications

Applications
The E-A-R™ Flexible Fit earplugs are ideally suited to provide protection against most noise frequencies in a wide range of industrial workplace and leisure environment. Examples of typical applications include:

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

Ordering Information

Product Code	3M ID	Description
328-1000	70071732245	Flexible Fit Uncorded Earplug
328-1001	70071732278	Flexible Fit Corded Earplug
393-2026-50	70071732690	EARfit Test Probe for Flexible Fit

Standards

These hearing protectors have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1270:2002 under an agreed production certification scheme operated during manufacture in accordance with the SAI Global Standards Mark program.

Cleaning & Maintenance

These earplugs can be washed with a mild detergent and warm water as necessary. Rinse with clean water and allow earplugs to dry at room temperature. Do not clean with solvents such as alcohols or acetone, or with waterless hand cleaners or products containing lanolin. Do not use heat to dry the product.

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Fitting Instructions

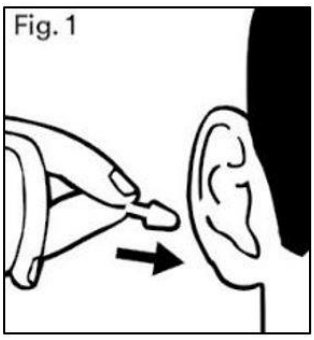
Earplugs should be clean before use. Use either the One-Hand Method (less noise reduction) or the Two-Hand Method (more noise reduction) to insert the earplug into your ear. Consult your supervisor to determine which method to use to provide the necessary level of protection for your noise exposure.

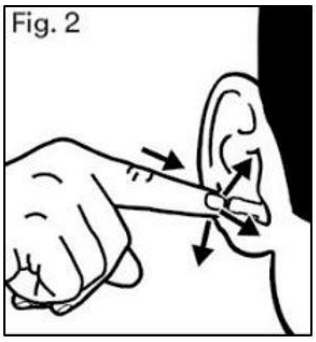
One-Hand Method

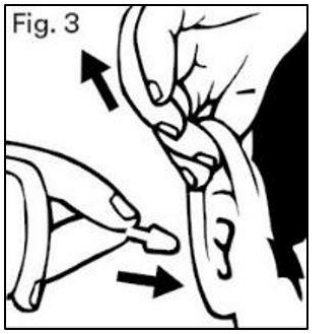
1. INSERT rounded ear tip into ear canal while holding stem with thumb and finger. (Fig. 1)
2. HOLD PRESSURE on stem for a few seconds WHILE INSERTING. If needed, push stem from a different direction to make insertion easier. (Fig. 2)
3. The entire ear tip should be inside the ear canal.

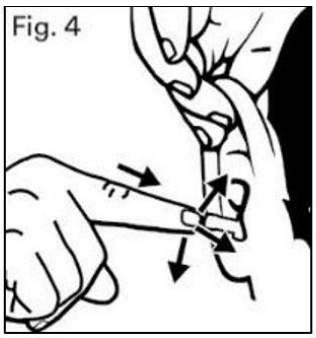
Two-Hand Method

1. INSERT rounded ear tip into ear canal WHILE PULLING ear outward and upward with opposite hand. (Fig. 3)
2. HOLD PRESSURE on stem for a few seconds WHILE INSERTING. If needed, push stem from a different direction to make insertion easier. (Fig. 4)
3. The entire ear tip should be inside the ear canal.









Laboratory Attenuation Tables

One Hand Insertion Method

Class 2	SLC80 16dB						
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.0	17.1	20.2	22.8	29.7	32.5	31.5
Standard Deviation (dB)	12.9	11.5	11.8	9.7	7.3	9.3	11.0
Assumed Protection Value (dB)	8.1	5.6	8.4	13.1	22.4	23.2	20.5

Two-Hand Insertion Method

Class 3	SLC80 20dB						
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	23.4	20.0	22.2	24.5	31.7	33.6	33.7
Standard Deviation (dB)	10.6	9.1	9.6	7.5	6.2	7.3	9.9
Assumed Protection Value (dB)	12.8	10.9	12.6	17.0	25.5	26.3	23.8

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