

3M™ E-A-Rflex™ Banded Ear Plug

Technical Data Sheet

Product description

3M™ E-A-Rflex™ banded hearing protector with foam ear tips features a unique hinged band fits a wide range of head sizes, and can be worn in three different positions.

Features

- Attenuation rating for all three wearing positions: over-the-head, under-the-chin, and behind-the-neck.
- Pivoting, hinged band provides adjustable positions for a more comfortable fit and seal.
- SLC_{80} 15dB (Class 2).

Applications

The E-A-Rflex™ Banded earplugs are ideal for lower noise levels in a range of industrial workplace and leisure environments. Examples of typical applications include:

- Automotive
- Chemical & pharmaceutical manufacture
- Construction
- Heavy engineering
- Woodworking

Standards

These hearing protectors have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1270:2002.



Laboratory Attenuation Values

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	14.7	12.8	17.0	19.4	27.2	33.1	32.6
SD (dB)	11.5	8.7	7.5	7.9	8.3	6.7	13.1
Mean - SD (dB)	3.2	4.1	9.5	11.5	18.9	26.4	19.5

SLC_{80} 15dB (Class 2)

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.

Hearing protector Class 2 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 90dB(A) to less than 95dB(A), assuming an 85dB(A) criterion.

A lower criterion may require a higher protector class.

Mean = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002.

SD = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002.

Mean-SD = Mean attenuation value minus Standard Deviation

SLC80 = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC_{80} in 80% of protector-wearer noise spectrum combinations.

Class = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

Materials

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

Component	Material
Earplugs	Polyurethane Foam
Band	PVC

Ordering Information

3M Order Code	Model #	Description
70071515806	350-3001	3M™ E-A-Rflex™ Banded Ear Plug with Foam

Storage

Store in an area free of contamination.

Do not leave your hearing protection device in areas or locations where it can be exposed to damage or contamination.

Sunlight is particularly damaging as UV light can have a detrimental effect on the materials the product is made from.

Chemical contamination can also have a serious effect on product integrity and decontamination after use is recommended.

Use a suitable storage container especially if left in a vehicle. This will protect the hearing protection device from damage and extend its working life.

WARNING! Hearing Protection Products

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor, User instructions, or call 3M TechAssist Helpline 1800 024 46.

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