

3M™ E-A-R™ Classic™ Disposable Foam Earplugs

Technical Data Sheet

Product description

The E-A-R™ Classic™ roll-down earplugs are designed for insertion into the ear canal to help reduce exposure to hazardous noise.

These products are available in corded and uncorded version.

The uncorded version is also available in One Touch™ Dispenser format.

Features

- Proprietary soft energy absorbing polymer foam
- Firm material with slow recovery time helps achieve good fit
- Compatible with 3M™ E-A-Rfit validation system
- Special cylindrical shape that fits most ear canals
- Supplied in re-sealable pillow-pack for ease of use
- Sweat and humidity resistant which helps improve comfort- ideally suited for use in hot and humid conditions
- Regular size may help fit a broader range of ear canal sizes
- Available in both corded and uncorded version

Applications

The E-A-R™ Classic™ is particularly suited for both workplace and leisure environments. Examples of typical applications include:

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

Standards

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



310-1001

311-1101

Materials

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

Component	Material
Earplugs	PVC foam
Cord	PVC

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.

Laboratory Attenuation Values

Corded

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	19.0	19.0	25.1	23.9	30.7	37.0	39.3
SD (dB)	6.7	5.1	7.9	7.5	6.9	5.5	9.0
Mean - SD (dB)	12.3	13.9	17.2	16.4	23.8	31.5	30.3

SLC₈₀ 21dB (Class 3)

Uncorded

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	19.8	20.6	27.8	27.4	31.0	38.7	41.2
SD (dB)	9.2	8.6	7.3	8.7	6.3	6.1	9.2
Mean - SD (dB)	10.6	12.0	20.5	18.7	24.7	32.6	32.0

SLC₈₀ 23dB (Class 4)

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 3 (corded) and Class 4 (uncorded) tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, the Class 3 corded Classic earplug may be used in noise 95 dB(A) to less than 100dB(A) and the Class 4 uncorded Classic earplug may be used in noise 100 dB(A) to less than 105dB(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 SLC80 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.

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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Ordering Information

3M Order Code	Model #	Description
70071514940	311-1101	3M™ E-A-R™ Classic™ Corded
70071514916	310-1001	3M™ E-A-R™ Classic™ Pillow Pack Uncorded
70071514932	312-1201	3M™ E-A-R™ Classic™ Polybag Uncorded
70071562774	393-2003-50	3M™ E-A-R™ Classic™ Probed Test Plug
70071514882	391-1001	3M™ E-A-R™ Classic™ One Touch Refill



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