

3M™ E-A-R™ UltraFit™ Earplugs

Technical Data Sheet



Description

The E-A-R™ UltraFit™ reusable 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 a corded and uncorded version.

Key Features

- Unique patented tri-flange design
- Longer stem helps make insertion easier
- Made from soft and durable material
- One size fits the majority of wearers
- Compatible with the 3M™ E-A-Rfit validation system
- Easy to wash and clean
- Supplied in re-sealable pillow-pack for ease of use
- Available in both corded and uncorded versions

Applications

The E-A-R™ UltraFit™ earplugs are ideal for moderate noise exposure levels, and are suited for a wide range of industrial workplace and leisure environment applications. Examples of typical applications include:

- Automotive
- Chemical & pharmaceutical manufacture
- Construction
- Heavy 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.



Materials

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

Component	Material
Ear Plugs	Thermoplastic elastomer
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.

Attenuation Data

Class 3	SLC ₈₀ Value is 18.0						
Frequency (HZ)	125	250	500	1000	2000	4000	8000
Mean Attenuation	19.1	18.9	21.2	20.5	28.9	32.1	36.3
Standard Deviation	8.1	8.1	9.3	5.7	6.8	10.6	11.0
Mean - Standard Deviation	11.0	10.8	11.9	14.8	22.1	21.5	25.3

Hearing protector class 3 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 100dB(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 SLC(80) = 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.

Ordering Information

3M Code	Model #	Description
70071521143	340-4001	E-A-R Ultrafit Cased Uncorded
70071515798	340-4002	E-A-R Ultrafit Cased Corded
70071515772	340-4004	E-A-R Ultrafit Polybag Corded

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