

# 3M™ E-A-R™ Taperfit™ 2 Disposable Foam Earplugs

## Technical Data Sheet

### Product description

3M™ E-A-R™ Taperfit™ 2 foam earplugs feature smooth foam that expands in the ear canal to help provide comfortable hearing protection.

### Features

- SLC<sub>80</sub> 26dB (Class 5)
- Soft polyurethane foam earplugs for all day comfort
- Compatible with E-A-Rfit™ Dual Ear Validation System
- Multiple size earplug offering (regular and large) help fit a broad range of ear canal sizes
- Available in corded and uncorded
- Poly bag keeps each pair of earplugs clean before use

### Applications

The E-A-R Taperfit II™ earplugs are ideal for a wide range of industrial workplace and leisure environments. Examples of typical applications include:

- Automotive
- Chemical & pharmaceutical manufacture
- Construction
- Heavy engineering
- Metal industry
- 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
Earplugs	Polyurethane 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

### Taperfit™ 2 Regular Uncorded

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	23.6	24.6	28.2	29.7	34.9	44.2	45.3
SD (dB)	6.9	8.8	8.7	7.3	4.5	5.2	7.7
Mean - SD (dB)	16.7	15.8	19.5	22.4	30.4	39.0	37.6

SLC<sub>80</sub> 26dB (Class 5)

### Taperfit™ 2 Large Uncorded

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	23.7	24.1	25.4	25.5	33.8	45.0	45.8
SD (dB)	4.2	4.3	4.3	3.8	2.9	4.9	5.0
Mean - SD (dB)	19.5	19.8	21.1	21.7	30.9	40.1	40.8

SLC<sub>80</sub> 26dB (Class 5)

### Taperfit™ 2 Large Corded

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean (dB)	26.2	26.2	28.2	27.9	35.5	46.6	46.9
SD (dB)	5.9	6.1	6.8	6.2	3.4	5.5	3.5
Mean - SD (dB)	20.3	20.1	21.4	21.7	32.1	41.1	43.4

SLC<sub>80</sub> 26dB (Class 5)

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 5 tested to AS/NZS 1270. When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise 105dB(A) to less than 110dB(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.

## Ordering Information

3M Order Code	Model #	Description
70071515228	312-1219	3M™ E-A-R™ Taperfit™ 2 Regular Uncorded
70071515236	312-1221	3M™ E-A-R™ Taperfit™ 2 Large Uncorded
70071515251	312-1224	3M™ E-A-R™ Taperfit™ 2 Large Corded
70071562808	393-2006-50	3M™ E-A-R™ Taperfit™ 2 Probed Test Plug
70071733557	393-2027-50	3M™ E-A-R™ Taperfit™ 2 Large Probed Test Plug

### 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.

**Important Notice:** To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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