

3M™ 1100 Earplugs

Key benefits:



Comfortable

- ▶ Soft hypoallergenic foam provides low pressure and warms to the body when inserted in the ear thus increasing comfort and wearability



Convenient

- ▶ Tapered design provides a good fit on a wide range of ear canal sizes
- ▶ 3M™ 1100 Earplugs are the corded version of the 3M 1100 earplug



Protective

- ▶ Slow recovery polymer foam helps achieve good acoustic properties and noise reducing seal
- ▶ Compatible with 3M™ E-A-RFit™ Dual Ear Validation System which measures the effectiveness of the earplug's protection level



Attenuation values

	Frequency (Hz) <i>f</i>								H	M	L	SNR
	63	125	250	500	1000	2000	4000	8000				
Mf (dB)	26.8	30.4	34.4	37.1	38.7	34.9	44.7	39.3	36.4	35.8	33.8	37.1
Sf (dB)	5.7	4.6	6.4	4.9	5.1	4.2	2.3	5.1	3.4	2.6	3.1	2.5
APVf (dB)	21.1	25.8	28.0	32.2	33.6	30.7	42.4	34.2	33	33	31	35

Key

f = Test frequency

Mf = Mean attenuation value

Sf = Standard deviation

APVf (Mf - Sf) = Assumed Protection Value

H = High-frequency attenuation value

M = Medium-frequency attenuation value

L = Low-frequency attenuation value

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear)

Information on Shelf life and service life can be found in the User Instructions.

Materials

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

Component	Material
Earplugs	Polyurethane foam
Cord	Polyester

Ordering information

Short ID	Description
3M™ 1100 Earplugs	
1100	3M™ 1100 Earplugs foam roll down earplugs
1110	3M™ 1100 Earplugs with cord
3M™ E-A-R™ One Touch™ Pro Dispenser	
1100B	3M™ 1100 Earplugs dispenser refill bottle
3M™ E-A-RFit™ Dual Ear Validation System	
393-1100	E-A-RFit™ Dual Ear Validation System
1100P	3M™ 1100 Earplugs probed test plug

Personal Safety Division

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Version 2023 EN 352:2020

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3M™ 1100 Earplugs

3M™ 1110 Earplugs

Technical datasheet



Product description

The 3M™ 1100 and 1110 Earplugs are disposable foam earplugs designed for insertion into the ear canal to help reduce exposure to harmful levels of noise.

These earplugs may be used in high noise environments and provide effective protection across all test frequencies. The uncorded version is also available in the 3M™ E-A-R™ One-Touch™ Pro Earplug Dispenser format

Key features

- ▶ SNR 35 dB
- ▶ SNR is the same for both corded and uncorded models, see full attenuation table
- ▶ Higher 'L' value of HML data, provides better attenuation at low frequencies (< 500Hz).
- ▶ Slow recovery foam helps make insertion easier
- ▶ Soft pliable foam conforms to the shape of the ear canal for comfort and wearability
- ▶ Designed with Tapered shape
- ▶ Available in un-corded (3M 1100) and corded (3M 1110) versions
- ▶ Compatible with the 3M™ E-A-Rfit™ Dual-Ear Validation System

Standard and approval:

This product is in compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking.

The full text of the Declaration of Conformity is available at the following internet address: www.3M.com/hearing/certs.

Materials

Earplugs	Slow recovery polyurethane foam
Cord	Polyester

Important notice

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms & conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.

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Version 2
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Nominal size range

Smallest fitted: 6 mm

Largest fitted: 13 mm

Attenuation values:

	Frequency (Hz) <i>f</i>								H	M	L	SNR
	63	125	250	500	1000	2000	4000	8000				
Mf (dB)	26.8	30.4	34.4	37.1	38.7	34.9	44.7	39.3	36.4	35.8	33.8	37.1
Sf (dB)	5.7	4.6	6.4	4.9	5.1	4.2	2.3	5.1	3.4	2.6	3.1	2.5
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Key:

f = Test frequency

Mf = Mean attenuation value

Sf = Standard deviation

APVf (Mf - Sf) = Assumed Protection Value

H = High-frequency attenuation value
(predicted noise level reduction for noise with LC – LA = -2dB)

M = Medium-frequency attenuation value
(predicted noise level reduction for noise with LC – LA = +2dB)

L = Low-frequency attenuation value
(predicted noise level reduction for noise with LC – LA = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear)

Information on Shelf life and service life can be found in the User Instructions.

