

EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Cain Road
Bracknell
RG12 8HT
United Kingdom

Holds Certificate Number:

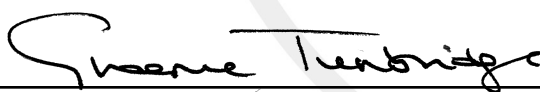
CE 773240

In respect of:

Personal hearing protection to EN 352-2:2020 - Earplugs
Models: E-A-R™ Express™, E-A-R™ Push-Ins™ and No-Touch™

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified
Body for the above Regulation
(Notified Body Number 2797):


Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

First Issued: 2022-11-01
Latest Issue: 2024-10-11

Effective Date: 2024-10-11
Expiry Date: 2027-10-31

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EU Type Examination Certificate

No. CE 773240

Product Specification

| | |
|--------------------------|---|
| Product Name: | 3M™ Push-To-Fit Earplugs |
| Product Type: | Hearing Protectors – Earplugs |
| Models: | E-A-R™ Express™ (corded and uncorded) E-A-R™ Push-Ins™ (corded and uncorded) No-Touch™ (corded) |
| Technical Specification: | Harmonized European Standard EN 352-2:2020 |
| Product Description: | These earplugs are designed to be inserted into the ear canal to protect against hazardous noise and loud sounds. The Express and Push-Ins have been approved for both two-hand and one-hand fitting. The No-Touch has been assessed for two-hand fitting only. |
| EN 352-2 Classification: | Disposable |

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Model : Express (corded and uncorded)

Attenuation values - Two-hand insertion technique

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Value MV (dB) | 27.8 | 24.1 | 27.3 | 26.7 | 29.1 | 35.3 | 38.0 | 39.7 |
| Standard Deviation SD (dB) | 5.5 | 5.2 | 5.0 | 4.8 | 5.0 | 3.3 | 4.4 | 3.5 |
| Assumed Protection Value APV _f (dB) (APV _f = MV-SD) | 22.3 | 18.9 | 22.3 | 21.9 | 24.1 | 32.0 | 33.6 | 36.2 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| Value | MV (dB) | SD (dB) | APV (dB) |
|--|---------|---------|----------|
| High Frequency Attenuation Value (H) | 34.3 | 3.3 | 31 |
| Medium Frequency Attenuation Value (M) | 29.2 | 4.2 | 25 |
| Low Frequency Attenuation Value (L) | 27.2 | 4.4 | 23 |
| Single Number Rating (SNR) | 32.2 | 3.8 | 28 |

Attenuation values - One-hand insertion technique

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Value MV (dB) | 26.4 | 22.4 | 25.8 | 25.6 | 28.9 | 35.3 | 37.4 | 39.1 |
| Standard Deviation SD (dB) | 5.8 | 3.9 | 4.5 | 3.6 | 4.8 | 4.3 | 3.6 | 3.6 |
| Assumed Protection Value APV _f (dB) (APV _f = MV-SD) | 20.6 | 18.5 | 21.3 | 22.0 | 24.1 | 31.0 | 33.8 | 35.5 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| Value | MV (dB) | SD (dB) | APV (dB) |
|--|---------|---------|----------|
| High Frequency Attenuation Value (H) | 34.3 | 3.5 | 31 |
| Medium Frequency Attenuation Value (M) | 28.7 | 3.8 | 25 |
| Low Frequency Attenuation Value (L) | 26.2 | 3.7 | 23 |
| Single Number Rating (SNR) | 31.8 | 3.6 | 28 |

Sizing

Nominal Diameter: Smallest – 7 mm Largest – 12 mm

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Model : Push-Ins (corded and uncorded)

Attenuation values - Two-hand insertion technique

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Value MV (dB) | 35.5 | 31.3 | 35.3 | 36.5 | 35.7 | 37.8 | 39.4 | 40.4 |
| Standard Deviation SD (dB) | 5.0 | 4.4 | 5.0 | 4.9 | 4.2 | 4.5 | 3.2 | 3.9 |
| Assumed Protection Value APV _f (dB) (APV _f = MV-SD) | 30.5 | 26.9 | 30.3 | 31.6 | 31.5 | 33.3 | 36.2 | 36.5 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| Value | MV (dB) | SD (dB) | APV (dB) |
|--|---------|---------|----------|
| High Frequency Attenuation Value (H) | 37.6 | 3.4 | 34 |
| Medium Frequency Attenuation Value (M) | 36.2 | 3.9 | 32 |
| Low Frequency Attenuation Value (L) | 35.3 | 4.3 | 31 |
| Single Number Rating (SNR) | 38.0 | 3.5 | 35 |

Attenuation values - One-hand insertion technique

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Value MV (dB) | 30.3 | 27.9 | 31.6 | 31.4 | 32.0 | 36.1 | 37.9 | 38.9 |
| Standard Deviation SD (dB) | 5.7 | 4.6 | 4.3 | 5.2 | 5.2 | 3.0 | 4.6 | 5.1 |
| Assumed Protection Value APV _f (dB) (APV _f = MV-SD) | 24.6 | 23.3 | 27.3 | 26.2 | 26.8 | 33.1 | 33.3 | 33.8 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| Value | MV (dB) | SD (dB) | APV (dB) |
|--|---------|---------|----------|
| High Frequency Attenuation Value (H) | 35.2 | 3.2 | 32 |
| Medium Frequency Attenuation Value (M) | 32.4 | 4.2 | 28 |
| Low Frequency Attenuation Value (L) | 31.2 | 4.2 | 27 |
| Single Number Rating (SNR) | 34.7 | 3.6 | 31 |

Sizing

Nominal Diameter: Smallest – 7 mm Largest – 12 mm

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Model : No-Touch (corded)

Attenuation values - Two-hand insertion technique

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Value MV (dB) | 34.3 | 29.3 | 33.3 | 34.3 | 34.3 | 37.0 | 45.2 | 48.1 |
| Standard Deviation SD (dB) | 5.5 | 3.9 | 4.6 | 5.5 | 4.9 | 3.4 | 4.6 | 4.2 |
| Assumed Protection Value APV _f (dB) (APV _f = MV-SD) | 28.8 | 25.4 | 28.7 | 28.8 | 29.4 | 33.6 | 40.6 | 43.9 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| Value | MV (dB) | SD (dB) | APV (dB) |
|--|---------|---------|----------|
| High Frequency Attenuation Value (H) | 38.1 | 3.0 | 35 |
| Medium Frequency Attenuation Value (M) | 34.6 | 3.7 | 31 |
| Low Frequency Attenuation Value (L) | 33.2 | 3.9 | 29 |
| Single Number Rating (SNR) | 37.3 | 3.2 | 34 |

Sizing
Nominal Diameter: Smallest – 6 mm Largest – 14 mm

Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. Such variants will be differentiated, and the Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product, but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

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Certificate Administration Details

Technical File Reference:

| Item | Technical File |
|--------------------------|----------------|
| 3M™ Push-To-Fit Earplugs | TF0691 |

Certificate Amendment Record:

| Issue date | Comments | BSI Review No. |
|---------------|---|------------------|
| November 2022 | First issue. | 2797:22:3701485 |
| October 2024 | Removal of E-A-R Flexible Fit HA Earplugs | 2797:24:30162846 |

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Internal Production Control plus supervised product checks at random intervals, Annex VII (Module D) as referenced on BSI issued Certificate CE 595701.

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