

# 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:

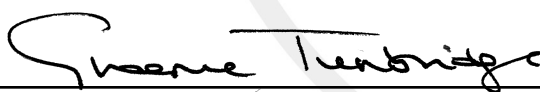
CE 773229

In respect of:

**Personal hearing protection to EN 352-2:2020 - Earplugs**  
**Models: E-A-Rsoft™ Yellow Neons™, E-A-Rsoft™ Metal Detectable,**  
**E-A-Rsoft™ FX™, 1100, 1110**

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: 2022-11-02

Latest Issue: 2025-03-14

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# EU Type Examination Certificate

No. CE 773229

## Product Specification

**Product Name:** 3M™ Disposable Earplugs

**Product Type:** Hearing Protectors – Earplugs

**Model:** E-A-Rsoft™ Yellow Neons™ (corded and uncorded)  
E-A-Rsoft™ Metal Detectable (corded)  
E-A-Rsoft™ FX™ (corded and uncorded)  
1100 (uncorded)  
1110 (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.

**EN 352-2 Classifications:** Disposable

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**Model:** E-A-Rsoft Yellow Neons (corded and uncorded)

**Attenuation Values**

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	30.1	32.7	34.3	37.9	37.6	33.9	43.8	40.1
Standard Deviation SD (dB)	7.5	7.4	6.5	5.4	3.7	3.7	4.0	4.0
Assumed Protection Value APV <sub>f</sub> (dB) (APV <sub>f</sub> = MV-SD)	22.6	25.3	27.8	32.5	33.9	30.2	39.8	36.1

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.0	3.3	33
Medium Frequency Attenuation Value (M)	36.1	3.5	33
Low Frequency Attenuation Value (L)	34.8	5.0	30
Single Number Rating (SNR)	37.3	3.3	34

**Sizing**

**Nominal Diameter:** Smallest – 6 mm      Largest – 11 mm

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**Model:** E-A-Rsoft Metal Detectable (corded)

## Attenuation Values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	30.1	32.7	34.3	37.9	37.6	33.9	43.8	40.1
Standard Deviation SD (dB)	7.5	7.4	6.5	5.4	3.7	3.7	4.0	4.0
Assumed Protection Value APV <sub>f</sub> (dB) (APV <sub>f</sub> = MV-SD)	22.6	25.3	27.8	32.5	33.9	30.2	39.8	36.1

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.0	3.3	33
Medium Frequency Attenuation Value (M)	36.1	3.5	33
Low Frequency Attenuation Value (L)	34.8	5.0	30
Single Number Rating (SNR)	37.3	3.3	34

## Sizing

**Nominal Diameter:** Smallest – 6 mm      Largest – 11 mm

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**Model:** E-A-Rsoft FX (corded and uncorded)

**Attenuation values**

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	37.6	34.3	39.6	41.2	39.1	38.2	47.5	48.6
Standard Deviation SD (dB)	6.7	5.9	6.3	6.6	5.6	3.8	5.3	4.0
Assumed Protection Value APV <sub>f</sub> (dB) (APV <sub>f</sub> = MV-SD)	30.9	28.4	33.3	34.6	33.5	34.4	42.2	44.6

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	40.0	3.8	36
Medium Frequency Attenuation Value (M)	38.9	4.4	35
Low Frequency Attenuation Value (L)	38.3	4.9	33
Single Number Rating (SNR)	40.9	4.0	37

**Sizing**

**Nominal Diameter:** Smallest – 5 mm      Largest – 14 mm

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**Model:** 1100 (uncorded)

1110 (corded)

## Attenuation values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	26.8	30.4	34.4	37.1	38.7	34.9	44.7	39.3
Standard Deviation SD (dB)	5.7	4.6	6.4	4.9	5.1	4.2	2.3	5.1
Assumed Protection Value APV <sub>f</sub> (dB) (APV <sub>f</sub> = MV-SD)	21.1	25.8	28.0	32.2	33.6	30.7	42.4	34.2

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.4	3.4	33
Medium Frequency Attenuation Value (M)	35.8	2.6	33
Low Frequency Attenuation Value (L)	33.8	3.1	31
Single Number Rating (SNR)	37.1	2.5	35

## Sizing

**Nominal Diameter:** Smallest – 6 mm      Largest – 13 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™ Disposable Earplugs	TF0686

### Certificate Amendment Record:

Issue date	Comments	BSI Review No.
November 2022	First issue.	2797:22:3701450
January 2024	Medium Frequency Attenuation Value (M) updated from 35 to 34 for the E-A-Rsoft FX models.	2797:24:NA
March 2025	Certificate Amendment Record updated to reflect details for amendment January 2024 and to make correction to revert values back for Medium Frequency Attenuation Value (M) from 34 to 35 for the E-A-Rsoft FX models, due to rounding of figures from test report.	2797:25:NA

### 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 Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

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